## UNIVERSITY OF CAPE COAST

# FINANCIAL LITERACY AND PERSONAL FINANCIAL DECISIONS OF LOCAL GOVERNMENT STAFF AT PRESTEA HUNI-VALLEY MUNICIPAL ASSEMBLY IN THE WESTERN REGION

BY

PATRICK ATUBIGA ASSIBI

Dissertation submitted to the Department of Finance of the School of Business,

College of Humanities and Legal Studies, University of Cape Coast in partial

fulfilment of the requirements for the award of Master of Business Administration

Degree in Finance

**MARCH 2021** 

# **DECLARATION**

# **Candidate's Declaration**

I hereby declare that this dissertation is the result of my own original work and that no part of it has been presented for another degree in this University or elsewhere.

Candidate's Signature: Date:
Candidate's Name: Patrick Atubiga Assibi
Supervisor's Declaration
I hereby declare that the preparation and presentation of the dissertation were
supervised in accordance with the guidelines of supervision of dissertation laid
down by the University of Cape Coast.
Supervisor's Signature: Date:
Supervisor's Name:Mr Kawor Seyram

MORIS

#### **ABSTRACT**

Due to the contemporary evolution in the financial markets, it has become increasingly indispensable for individuals to be more conversant and competent in handling their finances. This calls for financial literacy study to examine how people respond to this financial market complexity and sophistication. This study was conducted to assess the level of financial literacy and personal financial decisions among Local Government Staff of the Prestea Huni-Valley Municipal in the Western Region. A sample of 277 staff using stratified sampling technique was used. A self-administered questionnaire was used to collect the data and the analysis done using the Chi-Square Test of Independence. The results indicated that with the exception of division there was low understanding in the economic and financial variables used as correct scores were below averages in the areas of percentages, compound interest, inflation and time value of money. The study thus concluded that financial literacy among the respondents sampled was low. The study found that there was no relationship between financial literacy and gender or sex as none of the variable were significant. However, there was an association between financial literacy and level of education. Again, though most employees think a lot about their retirement and expected sufficient retirement amounts, it cannot be realized from their gratuities. It is recommended that the Office of the Head of Local Government Service organize financial literacy education for staff in savings and investments. Staff should also take their personal retirement planning seriously. This would advance financial literacy and increase staff involvement in the financial markets and enhance their wellbeing and work productivity.

#### **ACKNOWLEDGEMENT**

I would like to express my sincere thanks to my supervisor, Mr. Kawor Seyram of the Department of Finance of the University of Cape Coast. His continuous guidance and patience helped me to produce this work. I want to express my profound gratitude to my parents and siblings especially Mr. Lazarus Atubiga for providing me with unfailing support and encouragement through this work, this would not have been achieved without your presence and prayers.

I would also like to thank staff of the Local Government Service, especially staff of Prestea Huni-Valley Municipal Assembly, especially Rudolf Gyedu for their involvement in the survey. Without their passionate participation and inputs, this would not have been possible.

Thank you all.

NORIS

# **DEDICATION**

To my family, academic supervisor and friends



# **TABLE OF CONTENTS**

	Page
DECLARATION	ii
ABSTRACT	iii
ACKNOWLEDGEMENT	iv
DEDICATION	v
TABLE OF CONTENTS	vi
LIST OF TABLES	X
LIST OF FIGURES	xi
LIST OF ABBREVIATIONS	xii
CHAPTER ONE: INTRODUCTION	
Background to the Study	1
Statement of the Problem	6
Purpose of the Study	9
Research Objectives	9
Research Hypotheses	9
Significance of the Study	10
Delimitations of the Study NOBIS	11
Limitations of the Study	11
Organization of the Study	12
CHAPTER TWO: LITERATURE REVIEW	
Introduction	13
Theoretical Review	13

# © University of Cape Coast https://ir.ucc.edu.gh/xmlui

The Life Cycle Model	13
Propensity to Plan	16
Behavioral Finance	18
Heuristics	19
The Prospect Theory	20
Concept of Financial Literacy	21
Empirical Review	24
The Level of Financial literacy	24
Financial Literacy and Personal Financial Management	26
Demographic Characteristics and Financial Literacy	29
Financial Literacy and Retirement Planning	32
Conceptual Framework	34
Measurement of Financial Literacy	34
Demographic Characteristics	35
Personal Financial Decisions	35
Chapter Summary	37
CHAPTER THREE: RESEARCH METHODS	
Introduction NOBIS	38
Research Design	38
Population	39
Sampling Procedure and Sampling Technique	40
Data Collection Procedure	41
Data Processing and Analysis	42

# © University of Cape Coast https://ir.ucc.edu.gh/xmlui

Ethical Consideration	42			
Chapter Summary	42			
CHAPTER FOUR: RESULTS AND DISCUSSION				
Introduction	43			
Demographic Characteristics of Respondents	44			
Level of Financial Literacy among Respondents	45			
Relationship between Financial Literacy and Demographic Characteristics	48			
Relationship between Financial Literacy and Education	51			
Financial Literacy and Personal Financial decisions	52			
Budgeting and Expenditure Management	52			
Saving and Investment	53			
Investments and Risk	55			
Financial Literacy and Retirement Planning	56			
Chapter Summary	61			
CHAPTER FIVE: SUMMARY, CONCLUSIONS AND				
RECOMMENDATIONS				
Introduction	62			
Summary of Findings NOBIS	62			
Conclusion	63			
Recommendations	64			
Suggestions for Future Research	65			
REFERENCES	66			
APPENDIX:QUESTIONNAIRE	79			



# LIST OF TABLES

Ta	ble	Page
1	Target Population	39
2	Distribution of respondents	41
3	Respondents Responses of Questionnaire	43
4	Demographic Data of Respondents	44
5	Level of Financial Literacy among Respondents	45
6	Sex and Financial Literacy	49
7	Education and Financial Literacy	51
8	Pay Money Borrowed or Bills on Time	53
9	Saving and Investment	54
10	Risk and Investment	56
11	Financial Literacy and Retirement Planning	57
12	Retirement Planning	58
13	Personal Financial Decisions and Retirement Planning	59

NORIS

# LIST OF FIGURES

Figure		Page
1	Conceptual Framework	37
2	Assessment of financial literacy	46
3	Budget setting among staff	52



## LIST OF ABBREVIATIONS

CGAP Consultative Group to Assist the Poor

CLOGSAG Civil and Local Government Staff Association, Ghana

LGS Local Government Service

MCD Municipal Co-ordinating Director

MMDAS Metropolitan, Municipal and District Assemblies

OECD Organization for Economic Co-operation and Development

OHLGS Office of the Head of Local Government Service

PHMA Prestea Huni-Valley Municipal Assembly

#### CHAPTER ONE

## INTRODUCTION

The social and economic environment in which people make financial decisions has metamorphosed, with financial products and services evolving with different dynamics. This necessitates that individuals be equipped with some level of financial literacy to make the day-to-day decisions of savings, investments and other long-term financial planning. However, studies have shown that the financial literacy levels among individuals is low not only in developing countries but also in developed countries (Lusardi & Mitchell, 2011; Xu & Zia, 2012).

These trends have made financial literacy a subject matter of many research among the youth (Navickas, Gudaitis, & Krajnakova, 2014), students (Shahrabani, 2013; OSeifuah & Gyekye, 2014; Shaari, Hassen, Mohammed, & Sabri, 2013), entrepreneurs (Nalini, 2011), workers (Robert, Natamba, Zulaika, Akankunda, & Esther, 2013) and the general population (Sophie, Mark, & Adrian, 2013). Similarly, in Ghana, the subject of financial literacy and personal financial decisions have also been explored. This research would thus add to the array of knowledge on the subject as well as help policy makers in their decisions.

# Background to the Study NOBIS

The continuous development of new financial products and services coupled with the advancement in technology have an enormous influence on the financial world. The financial world has become highly integrated and multifaceted and individuals and economies are confronted with making sophisticated irreversible financial decisions (Nayyar, 2016; Suwanaphan, 2013).

The financial decisions are not only in the short-term like savings and borrowings but also include long term decisions like retirement planning, family future home and children education. The need for individuals to equip themselves with financial skills and knowledge, hence financial literacy therefore becomes an inevitable tool in the contemporary world (Ibrahim &Alqaydi, 2013).

Financial literacy according to Sekar and Gowri (2015) is about financial decision making, accumulation of wealth and better retirement planning. It is the capacity of the individual to discern, monitor and successfully use financial assets to improve the wellbeing and economic safety of himself, his family and his business. It is about how the individual would gain access to financial products and services (Nayyar, 2016). Thus financial literacy is consequently described by the Organization for Economic Co-operation and Development (OECD, 2012) as a core life skill for participating in the modern world and by Sekar and Gowri (2015) as a way of improving quality of life of individuals and society at large

However, evidence globally shows that there is widespread deficiency in financial literacy levels in high income countries as well as middle, low and lower income countries (Mbarire & Ali, 2014; Hung, Yoong, & Brown, 2012). Studies by Juliet (2014), for example found low level of financial literacy in Canada; Lusardi and Mitchell (2014) also found financial literacy levels among workers in America to be low and yet again Castro- Gonzalez (2014) also established low financial literacy among public sector workers in Puerto Rico.

These studies have used certain indicators including the ability to compute and understand certain financial and economic concepts like division, simple interest, compound interest, inflation and time value of money. At the advance level understanding of risk diversification, the operations of mutual funds, the stock market, differentiation between debt and equity among others have also been used.

The FinScope survey used mostly in the African Region and which can be used to measure some facets of financial literacy has likewise recorded low levels of financial literacy in most countries in Africa (Mbarire & Ali, 2014). In Kenya, the FinAccess survey confirms that there have been low levels of financial literacy despite the concerted efforts of Governments (Mwathi, Kubasu, & Akuno, 2017). Studies in Ghana through Consultative Group to Assist the Poor (CGAP) Technology in 2011 indicated that majority of Ghanaians have not got access to financial services.

The low financial literacy levels have resulted in poor personal financial management which create huge cost not only to the employees themselves but the organization at large. Employees who are distracted at work by their financial situations tend to undertake personal and financial tasks while on the job. Other employees are also inclined to take sick leaves and hence, job performance suffers and productivity at the work place declined (Delafrooz, Paim, Sabri, & Masud, 2010; Onyango, 2013). Employees with low level of financial literacy also have difficulty meeting their monthly expenditure and have no money saved to meet emergencies. Low level of financial literacy further decline financial planning and make many people unprepared for their retirement as they have no retirement plans or have accumulated little or no savings to care for themselves after-work years (Hung et., al, 2012; Agunga, 2016; Nayyar, 2016). Many employees' especially

Local Government Staff after retirement find it difficult to live with a reduced income and coupled with the rising economic situations, many pensioners lived miserable lives. Retirement is thus feared by many staff in the service as staff perceive retirement as a period of suffering. Thus persons with less knowledge in financial issues incline to embrace incorrect sentiments and make inappropriate decisions in the areas of general knowledge putting the health of individuals and families at risk (Suwananha, 2013; Nayya, 2016). This has led Hibbert and Beutler (2001) to conclude that financial matters are the rampant foundation of conflict in personal, marital, and family affiliations.

The Government of Ghana is the employer of the staff in the Local Government Service (LGS) per the Local Governance Act 936 of 2016 and has provided products and services for them. It is therefore of importance to help improve the level of financial literacy of these staff. Thus, consolidating the financial literacy of these employees can help remedy the financial skill and knowledge deficit and the behavioral and attitudinal concerns that will lead to staff becoming better savers and savvy spenders (Cakebread, 2014; Onyango, 2013). For it has been established that investing in the financial literacy of employees can reduce financial distress and this would in the long run advance the effectiveness of the country delivery system in the public service (Idris, Krishnan & Azmi 2013). Financial literate employees are also able to make better decisions especially on the allocation of their financial resources.

In furtherance of this, many organizations and governments have implemented financial education programmes with the key objective of improving financial knowledge that will enable individuals and families make financial choices that improve their well-being (Huston, 2010). Thus in 2003, the OECD financial education project was launch to resolve the trepidations of low financial literacy levels. This further precipitated the launch of International Network on Financial Education (INFE) in 2008 by the G8 Finance Ministers (Yoong, Mihaly, Bauhoff, Rabinovich, & Hung, 2013). Similar strategies and campaigns have also been launched in Ghana by both government and stakeholders to advance the level of financial literacy and create nationwide financial awareness (Ministry of Finance and Economic Planning, 2015).

Employers are also interested in developing the financial literacy skills of their employees. Some employers organize financial and retirement educational programmes for their staff while other provide financial products and services that will stimulate to the wellbeing of their staff. These products and services are all aimed at ensuring that employees are financially literate to enhance productivity and the well-being of the staff. The issue of financial literacy has been of concern to many scholars too and not only governments, organizations and employers. Studies have thus been conducted in Ghana on financial literacy among students and market women (Mireku, 2015; Atakora, 2013) and in Thailand on academic support employees (Suwanaphan, 2013)

Though the most highly needed area for financial literacy is the staff or employees, the working class or public sector employees have not been widely researched when it comes to the matter of financial literacy (Cakebread, 2014). It is therefore of vital importance to explore financial literacy that will enhance the

Local Government staff skills and abilities so as to enable them make more informed economic choices about their financial decision. For employees who are less burdened by financial stress are more productive, positively inclined to the employer and more likely to be less absent and stressed from work. On the contrary, financial stressed employees spend more of their working hours trying to solve their financial problems (Delafrooz, 2013).

## **Statement of the Problem**

Every individual and by extension employee is a manager of themselves in one way or the other. They are responsible for decision making in areas of acquisition, allocation and utilization of resources for their personal goals or to further the goals of entity they preside. All these actions have some financial implications. Therefore, to be able to function as a manager, a person needs to have some knowledge of financial literacy. This is even more prevalent in the Local Government Service and the public sector in general where there are budget constraints.

However, the levels of financial literacy among employees worldwide is frightening. Most employees are not only unaware of the importance of financial literacy and employers themselves do not place financial literacy as their top management objectives. For instance, Aliant Credit Union conducted a study in 2011 and concluded that though 45% of employers see financial guidance and advice program effective to improving employee productivity, only 8% of them place it as a top most benefits objective.

Where workers are likely to be employed in an organization that care for their employee's financial literacy, it is always limited to pensions or retirement planning (Alliant Credit Union, 2011). However, many employees are more interested in their personal financial management than the retirement planning that these employers provide. Thus the lack of financial literacy among American employees has been termed "the most glossed over and ignored worker issue today" (Alliant Credit Union, 2011).

In Ghana, lack of financial literacy has made many employees to fall prey to Ponzi schemes resulting in deaths, shocks and loss of livelihood. Some employees lack understanding of basic savings decisions and investment decisions, and sometimes put their resources in investment without understanding the proper implications which at the end do not lead to growth in their investments. Besides, employees are unaware of the financial implications of borrowings and this lead some of them to borrow at high interest rates just to satisfy their instant need without knowing the tall future encumbrance of these debts. Some of them have therefore become indebted to many financial institutions and cannot therefore meet their needs in a month without incurring further borrowing (Ofori, 2020).

The low levels of financial literacy in some cases have led to financial stress and thus affecting employee's performance at their work places. For an employee who is financially distressed is likely to blame everybody for the cause of his or her current predicament including his employer and therefore will not put up a good performance.

## © University of Cape Coast https://ir.ucc.edu.gh/xmlui

For instance, when employees are distracted by their financial situation at the work place, they are likely to engage in activities that will relieve them of the current predicament and inspire their personal benefits or financial freedom instead of their output at work. They are unable to sleep properly at night and therefore sleep at the office or work below their capacity due to tardiness. Some go on to retire solely dependent on the government providence and others fear to go on retirement because they have not adequately planned and resort to dubious acts including altering their ages to remain at work.

Figures from the Ghana Statistical Service (GSS) labor survey in 2015 showed that the employment to population ratio in the Western Region is 69.7%. It is therefore of vital importance that this key population that the remaining population depend on be educated on the basics of financial literacy. For persons with a high financial skills are able to make learned choices about their money and thus minimize the probabilities of financial mismanagement.

The low levels of financial literacy in the country especially among employees of Local Government makes this study very important. The big question is how can financial literacy help employees at the Local Government Service manage their personal finances that will stimulate to their own benefits and to improve productivity at the work place? Though financial literacy is not a panacea to the problem, it can in a way lead to better financial decisions and hence the purpose of the study.

# **Purpose of the Study**

The main purpose of this study is to examine financial literacy and personal financial decisions of Local Government Service staff in the Prestea Huni-Valley Municipal.

## **Research Objectives**

The objectives of the study include:

- To ascertain the level of financial literacy of Local Government Staff in the Prestea Huni-Valley Municipal.
- To assess the relationship between demographic characteristics (sex or gender and educational level) and financial literacy levels among Local Government staff in the Prestea Huni-Valley Municipal.
- 3. To ascertain the relationship between financial literacy and personal financial decisions of Local Government Staff in the Prestea Huni-Valley Municipal.
- 4. To ascertain the knowledge level of retirement planning among Local Government staff Prestea in the Huni-Valley Municipal.

# Research Hypotheses NOBIS

- H0: There is low level of financial literacy among staff of Prestea Huni-Valley Municipal.
- 2. H0: There is no relationship between demographic factors (sex or gender and educational level) and financial literacy among Local Government staff of the Prestea Huni-Valley Municipal.

- 3. H0: there is no relationship between financial literacy and personal financial decisions of Local Government Staff in the Prestea Huni-Valley Municipal.
- 4. H0: There is low knowledge levels of retirement planning among Local Government staff of the Prestea Huni-Valley Municipal.

## Significance of the Study

The findings of this study would be significant not only to the government which is the employer of staff of the Local Government Service but to all employers and employees in all sectors in the economy. The government and employers would find this useful as it would help them identify areas they consider important to improve the financial knowledge of their employees. Governments and development partners may also use the research findings to make policies and programs that are able to promote financial literacy.

The employees may also use the findings to guide them plan strategies for managing their personal finances especially in the area of retirement planning, investment, savings and expenditures.

The Office of the Head of Local Government Service (OHLGS) would find this useful for initiating strategies and developing capacity building programmes that would help improve the financial literacy levels of workers.

The findings would also be important to the scholars and researchers as it would complement the already existing knowledge in financial literacy. It would also assist these researchers and academicians identify gaps that needs further research.

## **Delimitations of the Study**

The work is limited to employees working in the Local Government Service in the Prestea Huni-Valley Municipal of the Western Region. There are currently fourteen (14) Metropolitan, Municipal and District Assemblies (MMDAs) in the Western Region. Per the Local Governance of 2016 (Act 936), staff of the decentralized departments in the MMDAs are part of Local Government Service. The study however was limited to only staff in the Departments of the assembly including the Central Administration, Social Welfare and Community Development, Works, Physical Planning and Human Resource Departments. Staff in these departments at the zonal councils were also included.

## **Limitations of the Study**

The study used a sample to represent the entire staff of the Municipal. There were seven (7) Zonal Councils and elven (11) departments in the Assembly at the time of the study. The use of staff of the Departments of the Assembly and excluding other decentralized departments with a lot of staff did not allow for generalization of the level of financial literacy in the municipality. To make a generalization, a larger sample would be needed to include the staff in the other decentralized departments of the assembly.

## **Organization of the Study**

The study is organised into five (5) chapters. Chapter one encompasses the background to the study, the statement of the problem, the purpose of the study and the significance of the study. Chapter two examines applicable literature on the research theme and identifies research gaps together with a conceptual framework. Chapter three encompasses the research methods with a focus on the research design, the population, sample, data collection and data analysis techniques. Chapter four represents the findings of the study and interpretation of results. Finally, chapter five comprises the summary of the findings, conclusions and recommendations.



#### CHAPTER TWO

## LITERATURE REVIEW

#### Introduction

This chapter reviews literature relating to financial literacy and personal financial decisions. The chapter examines theories that relate to financial literacy like the Life Cycle Model and personal financial decisions. It considers the conceptual framework linking the study variables.

#### **Theoretical Review**

Many theories have been expounded to explain how individuals manage their financials and plan for their future including retirement planning. Among the theories discussed in this research are the life cycle model, the propensity to plan and behavioral finance.

# The Life Cycle Model

The life cycle theory about consumption was postulated by Franco Modigliani, Albert Ando and Richard Brumberg about half a century ago. Deaton (2005) pronounced the life cycle model as a good piece of theory buttressed by many years of empirical work, both by supporters and critics. Deaton (2005) stated further that the model is so much a part of our regular normal toolkit that we pay Modigliani the great commendation of not citing him.

According to Modigliani the "point of departure of the life cycle model is the hypothesis that consumption and saving decisions of households at each point in time reflect a more or less conscious attempt at achieving the preferred distribution of consumption over the life cycle subject to the constraints imposed by the resources accruing to the household over time.

Illuminating on this assertion, van Rooij, Lusardi and Alessie (2011) stated that the simplest version of the life cycle consumption model without bequest and uncertainty posits that households accumulate savings during their working careers up to their retirement and de-accumulate wealth thereafter. What this means is that a rational and well-informed individual will consume less than his income in times of high earnings (during employment) and will save to complement consumption when income falls.

It is also emphasized that an individual level of consumption hinge on not just his present income but and more significantly on his long term expected earnings (Lusardi, 2008). In other words, individuals are assumed to plan a lifetime pattern of consumer expenditure based on expected earnings over time. Deaton (2005) puts it placidly that the most important motives for putting aside money was the need to provide for retirement. Thus young people will save so that when they are old and cannot either work or wish to work, they will have enough money to spend.

The implication of the Model is that it accounts for the dependence of consumption and savings behavior of the individual position in the life cycle. Thus young employees entering the service or labour market would have relatively low income and low or possibly negative savings. As their income rises in the middle years, they turn to increase savings. However, when they retire, there is a fall in

income and their savings reduces or become negative as they now depend on accumulated savings (Clark, Hammond, Hanson, & Morrill, 2014).

The model thus put the management of consumption and savings in the hands of the individuals. Staff are therefore expected to consider their position in the life cycle and take proactive measures that commensurate with that position. Individuals must likewise use available information to formulate and execute optimal consumption/saving plans and then look ahead and plan for the future taking his/her lifetime resources into account (Jappelli & Padula, 2011).

Despite these, many proponents have labelled certain criticisms against the life cycle model. It has been criticized for making unrealistic assumption about expected future income, life expectancy, family size amount others. The model further assumes that an increase in the life time resources of an individual lead to proportionate increases in consumption in all periods of life. This means that saving rate rises with income. This may not necessarily be the case in the life time of some individuals.

Others also assume that it fails to recognize the presence of liquidity constraints and consumption may be much more responsive to changes in current income, whether temporary or not, than would be predicted on the basis of the life cycle hypothesis. Based on these criticisms and others the prospect theory and propensity to plan theory have been used to explain individual behavior in relations to their financial management.

## **Propensity to Plan**

Critics of the life cycle model like Clark et al (2014) asserted that it assumes that people are planners who evaluate how each period resource allocation influences future resource constraints. On the contrary, individuals are not planners in the context of the life cycle as there are differences among individuals in measures of planning based on their risk and time preferences. For instance, individuals who display impatience or a lack of financial literacy would limit their ability to assess the trade-off between the current and the impending consumption.

Due to this and other criticism of the Life Cycle Model, the propensity to plan model was developed by Ameriks, Capin and Leahy (2003). This is because planning is ubiquitous in consumer's everyday life and changes in individual planning affect consumer wellbeing in significant and diverse ways ((Lynch, et., al., 2010). For instance, differences in the propensity to plan across individuals are associated with observed variations in retirement wealth accumulations (Ameriks et al., 2003).

The propensity to plan model assumes that individuals with high propensity to plan tend to notice spending errors, make appropriate behavioral adjustments and consequently accumulate more wealth. On the other hand, those with low propensity to plan tend to overlook such errors and continue to overspend while working and thus accumulate less retirement wealth (van Rooij, *et.,al.*, 2011). This Ameriks *et.*, *al.*,(2003) admonished that people who are risk averse should have greater utility for planning.

Conversely, those operating in volatile environments may see additional benefits from improvising rather than planning (Moorman & Miner 1998). It has been observed that those with high propensity to plan not only accumulate more wealth but also save more than those with a low propensity to plan (van Rooij, *et al.*, 2011).

Further to this is the fact that households with high propensity to plan set regular budgets and this help in reducing their spending. Differences in discount factors and bequest motives are also seen as obvious candidates accounting for different amount of wealth accumulation by households with similar economic and demographic characteristics (Lusardi &Mitchell, 2013). For instance, it is expected that patient households will accumulate more wealth than impatient households due to their lesser desire for current consumption.

Staff of the local government have at their disposal a flow of income monthly and other allowances, however their ability to utilize this for both current and future needs would depend on their propensity to plan. Those who defer current consumption and backed by a saving habit are likely to accumulate more than those who have no thought plan for their income. Thus Lusardi (2008) succinctly stated that households that give little thought to retirement had far lower wealth than those that had given the subject more thought.

The model like others have also been criticized. For instance, it is not every individual that plans alike and individual differences in planning influences consumer well-being in essential and wide-ranging ways. Planning is therefore relevant to inter-temporal option between smaller-sooner and larger—later rewards,

where the lesser rewards become more alluring as it draws closer (Lynch et al., 2010). Planning one finances is also a behavioral issue and hence the behavioral finance. This led to the development of other theories to explain consumer behavior, thus behavioral finance.

#### **Behavioral Finance**

Economic and finance theories are built on the concept of rationality. Neoclassical economics have often argued that people are rational in making decisions. Thus Riyazahmed and saravanaraj (2016) opined that rationality is the only factor that distinguishes homo economicus from homo sapiens. However, empirical evidences have proven that people are not always rational in considering all the available information of an opportunity before deciding on it (Riyazahmed & saravanaraj, 2016). This led to the development of the behavioral finance theories.

The issue of behavioral finance appeared in the field of finance around the 1800s and the early 1990s with writers applying the field of psychology to the field of finance (Victor & Simon, 2000). Hence, behavioral finance is concerned with the psychology of financial decision making and the role of biases in decision making.

According to Linter (1998) behavioral finance is the study of how human interprets and acts on information to make informed investment decisions. Thus it can be concluded that behavioral finance explains why and how people make seemingly irrational or illogical decisions when the save, invest, spend and borrow. Behavioral finance is therefore very important because it impacts on people's choices and have implications for retirement, pension and education (Michael,

2017). Behavioral finance has been classified in different ways. However, Brabazon (2000) suggested classifying behavioral finance into two: heuristics decision processing and the prospect theory.

#### Heuristics

Behavioral finance is based on psychology which suggests that human decisions process is subject to several cognitive illusions and biases, often termed heuristics (Ahmed & Saravanaraj, 2016). Heuristics encompasses making decisions and judgements speedily using limited cognitive resources or short-cuts. It involves both innate and automatic processes and learned or consciously selected rules of the thumb (Hirshleifer, 2014).

They are seen as mental short-cuts that simplify the complex methods to making a judgement. Some of the heuristics are over-confidence, regret avoidance, mental accounting among others. Over-confidence bias is sometimes called the "better than others syndrome. Overconfidence tend to make people overestimate their abilities (Bodie, Kane & Marcus, 2014).

Similarly, individuals who make certain decisions that do not turn out correctly tend to blame themselves (have more regret) when it arises from an unconventional one than a conventional decision. Thus, they will attribute a bad outcome from a conventional decision as bad (Bodie et al., 2014).

Though proponents of heuristic often claim that the traditional economic models did not recognize the fact that people use short-cuts in their work, it suffers from some criticism. Heuristics are blamed for not leading to quality of information, for decisions made analytically may outweighs those made upon

individual feelings and intuitions or short-cut. Others contend that heuristics leads to self-discipline problems as people may not save for retirement because of affective short-circuiting. In this volatile environment there are unlimited remunerations to making decisions analytically rather relying solely upon feelings and intuitions.

## **The Prospect Theory**

The prospect theory postulated by Kahneman and Tversky (1979) as a practice alternative to conservative wisdom. The prospect theory hypothesizes how an individual or group of individuals behave on average in a world of ambiguity. Ahmed et., al (2016) asserted that the prospect theory assumes that it is not possible to have a decision maker with unlimited Random Access Memory (RAM) who would consider all relevant information and come up with a choice under all circumstances.

In other words, the prospect theory contends that it is not possible to have a person who can consider all the relevant information before deciding to make decisions. People therefore incline to rely on information that immediately come to mind and information that do not are completely neglected (Hirshleifer, 2014). This makes them over-confident that their instinctive way of thinking about a problem is accurate.

It further assumes that humans by nature abhor uncertainty and typically look for ways to circumvent unrewarded risk. Thus, individuals overweight outcomes that are considered sure or certain relative to outcomes that are merely likely or probable, a phenomenon labeled as certainty effect (Riyazahmed &

Saravanaraj 2016). Decision makers tend to stick with what they have rather than investigate other options. They put off undertaking new initiatives, even if deep down they know the effort could be worthwhile. All of these observations point to a tendency of individuals to seek comfort (Riyazahmed & Saravanaraj 2016).

Consequently, the prospect theory predicts that individuals tend to be risk averse in a domain of gains, or when things are going well and relatively risk seeking when things are not going well or in a domain of losses. Prospect theory further assumes that people decisions may be driven by behavioral preconceptions (Ahmed et., Al., 2016).

In applying this to individuals and the management of their finances, it could be asserted that individuals would be very sensitive to decreases in their wealth than to upsurges and this will sway their decisions to invest and plan their finances. Thus decision making under risk is seen as an option between prospect and gamble.

## **Concept of Financial Literacy**

Mason and Wilson (2000) asserted that researchers and financial specialists have long differed on how to describe the concept of financial literacy. Remund (2010) following a similar path opined that though consumer behavior, public policy, sociology and mass communication scholars are quick to identify the reasons why people struggle to manage money, they have not reached unanimity on how best to define the concept of financial literacy.

Consequently, Zait and Bertea (2014) succinctly averred that discussions on financial literacy appear within the literature in various forms and with diversity of

viewpoints and with countless scholars and authors proffering their individual interpretation and explanations of the concept. This makes financial literacy more a relative concept rather than an absolute one. Besides, the inability of scholars to define the concept makes comparison difficult and different whether or not these studies are carried out in the same language or in different countries.

The varied viewpoints and definitions are further heightened by the fact that researchers and authors do not operate with the same words or meaning (Zait & Bertea, 2014; Huston, 2010). Terms like financial literacy, financial knowledge, financial capability, financial competence, economic capability, economic literacy and financial education (Madhzan & Tabiani, 2013; Cakebread, 2014; Mbarire & Ali, 2014) are used interchangeably. Research works and papers have also been undertaken with these terms: financial knowledge (Huston, 2010; Remund, 2010), financial literacy knowledge (Hung, Parker and Young, 2009) and people's self-confidence towards their own financial actions (OECD, 2013).

Notwithstanding these variety, some writers have attempted to define the concept of financial literacy. Remund (2010) described financial literacy as the measure of the degree to which an individual understands fundamental financial concepts and has the necessary capability and confidence to manage personal finances through short-term decisions and long-term planning, taking into account the economic happenings and varying circumstances. Remund (2010) assertion focuses on knowledge and ability to apply this knowledge and the confidence.

The definition by Remund (2010) was supported by Suwanaphan (2013) in which the concept financial knowledge was used. Financial knowledge embodies

basic form of financial literacy that is replicated in perceived financial knowledge and influences financial skills that is contingent on knowledge. Suwanaphan (2013) concluded that actual financial behavior, in turn, depends on all three, actual knowledge, perceived knowledge and skills.

According to the US Financial Literacy and Education Commission (cited in Kotze & Smit, 2008), financial literacy is defined as the ability to make informed judgments and to take effective actions regarding the current and future use and management of money. Financial literacy should include the ability to understand financial choices, plan for the future, spend wisely and manage and be ready for life events such as job loss or saving for retirement.

Thus, many conceptual definitions of financial literacy fall into three categories; knowledge of financial concepts, aptitude and skill in managing personal finances and confidence and attitude in planning effectively for future financial needs (Mwathi et al., 2017).

For the purpose of this work, the definition given by OECD International Network on Financial Education (INFE) has been adopted. It described financial literacy as an amalgamation of awareness, knowledge, skill, attitude and behaviour required to make thorough financial decisions and eventually achieve personal financial security. They contended that though the terms could be used relatively interchangeably, the most common term should be financial literacy.

Despite the variety of terms and interpretations, many theories and concepts have been propounded relating to personal decisions, management and retirement planning. Among the theories are those discussed in the next section.

## **Empirical Review**

This section involves empirical review of work using the theoretical concepts outlined above.

# The Level of Financial literacy

A sound personal financial plan allows individuals to be mindful of ways in which they deal with financial matters (Boon, Yee, &Ting, 2011). Like the Life Cycle Model and the Propensity to Plan model discussed above, individuals are responsible for the management of their finances and hence the need for financial knowledge as they strategize what need to be done as well as the financial goals and objectives to be met (Lusardi &Mitchell, 2013).

Several concepts underpin the roots of financial planning decisions of individuals. According to Boon (2011) concepts like time value of money, compound interest, inflation rate and risk diversification are cornerstone to the various aspect of financial planning. Besides, knowledge of interest compounding and ability to perform simple calculations would matter most for effective financial planning.

Buttressing these assertions, Lusardi and Mitchell (2013) asserted that the three (3) major concepts; (i) numeracy and the ability to perform computations related to interest and compound interest, (ii) understanding of inflation and (iii) understanding of risk diversification buttress the measurement of financial literacy. Lusardi and Mitchell have therefore designed a set of questions which have been used in United States of America (USA) and other countries across the world (Lusardi and Mitchell, 2013).

They advanced arguments in favour of the use of these set of standardized questions. These included simplicity, brevity, relevance and capacity to differentiate questions. Thus the questions measure the knowledge of the building blocks fundamental to decision making in an intertemporal setting as well as relate to concepts pertinent to people's day today decision over their lifecycle.

Measurement results from the use of these questions has concluded that the level of financial literary is low in both developed and developing economies of the world (Lusardi &Mitchell, 2013). For instance, a research by Boon (2011) in Klang valley Malaysia found that people were financial literate at the basic level. Using a set of questions on numeracy, time value of money, compound interest and inflation, the correct scores were higher for the basic level than when advanced economic and financial variables like function of stock market, knowledge of mutual funds, relationship between interest rates and bond prices, risk diversifications, risk levels and long-term return.

Similarly, a study by Lusardi (2008) found widespread illiteracy among the US population. For instance, the study demonstrated that most individuals cannot perform simple economic calculations and lack knowledge on basic economic concepts such as interest compounding, the difference between real and nominal values and the basics of diversification. It was contended further that knowledge on more complex concepts such as the difference between bonds and stocks, the working of mutual funds and the basics of asset pricing is even scarcer.

A study by Komara et al on financial literacy and financial behavior among government employees using a sample of 324 employees from Bandug, West Java

found that though on average financial literacy levels was good, that for career level 1 and Career level 11 was very low and fair respectively. Mahdzan and Tabiani (2013) examined the influence of financial literacy on individuals' savings in Klang Valley, Malaysia using a sample of 200 individuals. Using inflation, interest rate and compound interest the basic financial literacy was higher than that of the more advance measurement including unit trusts, stocks and bonds. They however, attributed the high score to most of the respondents been MBA students.

The financial knowledge thus influences a person's ability to plan and take personal financial decisions.

#### **Financial Literacy and Personal Financial Management**

Financial decision making is the thought process of selecting a logical financial choice from the available options (Mwathi, 2017). An individual ability to manage his personal finance has become an essential issue in today's world (Ibrahimi & Alqaydi, 2013). According to Oyango (2013) personal finance is the application of the doctrines of finance to the monetary decisions of an individual or family unit. It involves every day decisions of individuals like budgeting, saving and spending by individuals or family units.

Lusardi and Mitchell (2008) asserted that financial decisions are greatly influenced by a continuous conflict between the generation of goods and services in the market place and a person's limited resources to acquire such goods and services. Financial literacy further affect decision making and this can be linked to lack of retirement planning and poor borrowing behavior (Lusardi, 2008).

Mwathi, et.al. (2017) pronounced that due to the contemporary evolution in the financial markets, it has become increasingly indispensable for customers to be more knowledgeable and competent in managing their finances. Thus individuals must make day to day money management decisions to better planning and management of life events such as fund education, illness or housing purchase (Mwathi et al. 2017). Individual saving decisions means that they have to defer today's consumption. This was the view postulated by the Modigliani in the life-cycle model that during high earnings individuals will save and use such during periods of low income.

A study by Sevim, Temizel & Sayilir (2017) on the effects of financial literacy of Turkish financial consumers on the borrowing behavior using a sample of 550 people in the city of Eskisehir found that there are no differences in behavior with different levels of financial literacy. Sevim et al. (2017) states further that the increasing cost of health care, education and housing are making individuals to spend more than they can earn and even spend on retirement income.

Thus individual financial decisions are not based on the life cycle model or the propensity to plan but tend to be under the influence of biases or heuristics. Individuals tend to overvalue present benefits and underestimate future cost when borrowing. Wrong borrowing decisions therefore leads to over indebtedness and may even ruin consumer credibility which will have an effect on the long term financial welfare of the individual (Sevim et al; 2017; Kotze & Smit, 2008).

A study by Lusardi and Mitchell (2016) found that more financially literate employees are better investors. They stated further that more financially literate

knowledgeable employees are much more likely to participate in their retirement saving plan, contribute a higher percentage of their salaries and hold more equity in the defined contribution retirement accounts. On the other hand, workers who are financially illiterate find themselves in financial crisis as they have to spend their income on costly goods for the purpose of fitting into a society (Lorgat, 2003 cited in Kotze & Smit, 2008).

A study by Suwanapha (2013) on the personal financial literacy using a sample of 400 academic employee's found that most employees experience situations where their revenue cannot cover their expenses. They study further revealed that though most had saving, it was for emergencies and for wealth. The study thus concluded that participants do not have sufficient knowledge and skills about managing their financial affairs. This shows that lack of financial knowledge militates against the propensity to plan and the life cycle models. Individuals therefore make their decisions on the advice of friends or relatives or their own past, present or future experiences.

A study by Castro-Gonzalez (2014) using public employees at Puerto Rico shows that most of them were unacquainted with even the most rudimentary economic concepts required to make savings and investment decisions. The results of the study also revealed that though employees prepare budgets for a month, they were not able to cover their budgets but have to cut expenses or use part of their savings. Those who save were also unlikely to use their savings for more than three months in the event that they lose their jobs. Thus the rely on heuristics in making financial decisions.

A study by Ibrahimi and Alqaydi (2013) on financial literacy, personal attitude on individuals working in service organizations concluded that individuals with strong financial attitude tend to borrow less from credit cards. The study also revealed that UAE are more likely borrow from banks than from colleagues, friends or family members. Thus lack of financial literacy may force employees to ignore planning and implementing a regular investment programme.

These conclusions have placed the management of personal finance and the accumulation of retirement plans on the life of employees or the individuals. Efforts at acquiring financial literacy is a perquisite for the efficient management of their money. For without knowledge in financial literacy, individuals make their planning decisions without regard to the life cycle model or the propensity to plan model but on behavioral finances. Employers and for that matter the Local Government Service should endeavor to inculcate financial literacy training for employees at all levels as issues of demographic also influences financial literacy.

### **Demographic Characteristics and Financial Literacy**

Financial illiteracy is not only widespread among the general population but is particularly acute in some specific demographic groups (Lusardi, 2008). The demographic groups include age, level of education, sex/gender, marital status, race, ethnic groups, employment status among others. Many of these have therefore been discussed in a number of works.

A survey by Clark, et.al., (2016) found that Federal Republic employees performed well on financial literacy compared to the average Americans. Federal Republic employees were also saving a higher rate than the average Americans.

Jappeli (2012) investigated the financial literacy of university professors using a sample of 94 university professors and concluded that respondents lacked essential financial information for handling their daily financial issues. However, the results from a study carried out by Clark *et. el.*, (2016) did not discover a significant relationship between financial literacy and employment status.

A study by Sekar and Gowri (2010) found that while married employees were seen to be having higher financial literacy levels, unmarried employees were not significantly correlated to financial literacy. In the same vein, in Jappeli (2012) a relationship was also found between marital status and financial literacy. Thus married people were likely to be more financially literates than unmarried people.

The gender or sex of respondents have also been explored in relation to financial literacy. Sekar and Gowri (2010) conducted a study on financial literacy and its determinants and concluded that gender impacts on the level of financial literacy. The financial knowledge among men were found to be marginally higher than women in Agarwalla et.al (2013).

This means males were more financially literate compared to their female counterparts, thus financial literacy differs between male and female (Van Rooij, et., al., 2009 and Assefa & Rao, 2018). However, in Adam (2017) there was no significant difference between male and female students of the University of Cape Coast. Sekar and Gowri (2010) asserted that financial literacy levels do not depend on age as the mean score of financial literacy for differing age groups was not significant. However, Onyango (2013) found a strong positive correlation between personal financial management and age as older people were generally more

conservative and risk adverse than younger people. This means age has a significant effect with older individuals being more likely to hold retirement savings than younger ones (Boisclair, Lusardi & Michaud, 2014).

Similar conclusion was reached in Ansong and Gyensare (2012) in their survey among students when they opined that age was positively related to financial literacy. These were contrasted in Clark *et. al.*, (2016) were there was no significant relationship between age and financial literacy levels.

The level of education has relationship with financial literacy. Thus Assefa and Rao (2018) found that education was positively correlated with levels of education. Several other studies have concluded that those with higher level of education were more likely to be financially literate than their counterparts with lower levels of education (Yong & Sellapan, 2010; Bhushan & Medury, 2013; Clark *et. al.*, (2016); Onyango, 2013; Ansong & Gyensare, 2012).

Other demographic factors have also been explored including mother's education, source of information and income levels. For instance, Ansong and Gyensare (2012) conducted a survey among students and concluded that work location, access to media and source of education on money has no influence on financial literacy. They also found that mother's education was positively correlated with respondents (students) financial literacy and that of the father's education has no influence on the financial literacy of the respondent.

Other studies have found that the relationship between financial literacy levels and savings is moderated by income levels and that income levels have a positive association with saving behavior. Thus, higher income was associated with

higher levels of financial planning and again attributed to a positive and generally large and significant effect on retirement planning (Boisclair, Lusardi & Michaud, 2014).

Thus, financial literacy has a greater impact on retirement planning for individuals and this is explored in the next section.

### **Financial Literacy and Retirement Planning**

Even though there is emerging literature on retirement planning and its effects on economic wellbeing in retirement, it is limited and has not yet focused directly on public employees (Clark, Hammond, Henson & Morrill, 2014). For instance, a study by Clark, Lusardi and Mitchell (2016) on employees' financial literacy and retirement plan behavior in the USA found that financially savvy employees are most likely to participate in their defined contribution (DC).

They asserted that the higher returns earned by the more financially savvy employees are important contributor to household wealth inequality. They also found that more financially knowledgeable employees are much more likely to contribute a higher percentage in their retirement saving plan, contribute a higher percentage of their salaries and hold more equity in defined contribution retirement accounts (Clark, Lusardi & Mitchell, 2016).

A study by Mwathi, *et,al.*, (2017) on the effects of financial literacy on personal financial decisions among Egerton University Employees in Nakuru County, Kenya using a sample of 320 respondents had a similar results. With the help of SSPS they analyzed their data using descriptive, Pearson correlation and multi regression analysis. The results indicated that financially literate people have

a greater capacity to save for retirement and actually do so. They contended that financially literate people were able to save for the future, for retirement and for unforeseen circumstances and emergencies.

A study by Moore (2003) sought to find out the level of working Australians financial knowledge and preparedness for retirement. Using a sample of 802 working Australians, the results indicated that there were low levels of financial literacy. For instance, only half of the respondents had given at best some thought to their retirement, but made very little, if any preparations for it. The study concluded that when financial literacy levels decline, anticipation of a lifestyle in retirement that is far less comfortable than the present increases.

This portrayed that staff become rather worried about their ability to retire, about the financial challenges they will face in retirement and the uncertainties ahead that they wish they stay forever at work. In some instances, it is possible for some retirees to still have relatives who depend on them and it becomes much difficult to maintain the standard of living in their declining productivity period.

Individuals therefore need to take retirement planning as a personal responsibility and this should be complemented by the employer or the Office of the Head of Local Government Service. Ameriks, *et.al.*, (2003) asserted that individuals with high propensity to plan tend to notice spending errors and make inappropriate adjustments and thus accumulate wealth. On the contrary, those with low propensity to plan tend to overlook such errors while working and thus accumulate less retirement wealth.

The introduction of the Three Tier Pension Scheme by the National Pension Act of 2008 is thus seen as a welcome news to workers in the public sector. The scheme is contributory three-tier pension comprised two mandatory schemes and a voluntary scheme: (a) mandatory basic national social security scheme; (b) a mandatory fully funded and privately managed occupational pension scheme, and (c) a voluntary fully funded and privately managed provident fund and personal pension scheme.

The establishment of the Third Tier gives workers the option to choose the amount or percentage of salary they want to contribute into the scheme. There are also numerous financial and non-financial institutions that also offer services relating to retirement planning. Notwithstanding this many staff still find it difficult to put aside money or savings to meet their retirement.

Besides, the lack of financial knowledge means that staff are burden with debt arising from loans, loss of investments due to poor or bad advice from relatives and friends who might not also be well versed in financial issues,

### **Conceptual Framework**

### **Measurement of Financial Literacy**

There are two major approaches to measuring financial literacy; self-assessments and objective measures like test scores (Mwathi). Self-assessment is where the respondents are asked to appraise their literacy skills as well as to provide information about their attitudes toward financial decisions, knowledge and information. The objective measure relies on the objective test which assesses the respondents' knowledge of financial terms, understanding of various financial

concepts and ability to apply numerical skills in particular situations related to finance.

This study adopted the objective test approach in measuring employees' levels of financial literacy. This is because the objective test has been found to better assess the respondents' financial knowledge than self-assessment (OECD, 2005).

# **Demographic Characteristics**

A number of demographic variables like gender or sex, age, level of education, marital status, mother's education, race among others have effect on an individual's level of financial literacy. Some of these factors including sex or gender and level of education have been considered in this work.

#### **Personal Financial Decisions**

Financial literacy is the ability, knowledge and competency in making financial decisions (Mwathi). Thus a financial literate is one that has the intellectual framework for understanding, finding, evaluating and using information relating to finances, financial products, risks and any other information related to his financial wellbeing to make sound financial decision with limited risks. Amidst current evolutions in financial markets with the availability of a wider selection of financial products and services, making financial decisions has become multifaceted and more complicated.

Individuals therefore must make day to day money management decisions to enable better planning and management of life events such as food, education, illness, housing purchase or retirement. The knowledge and skills related to money management include the ability to prepare a budget and compare prices of different products (Fonseca, Mullen, Zamarro & Zissimopoulos, 2010).

Saving decisions among others is the ability to defer consumption of income earned today. The life-cycle saving theory posits that individuals will follow a hump-shaped saving pattern over their lifetime. During high earning periods of employment, individuals will save increasing amounts and smooth out expenditure. During low income levels for example later on in their retirement year's people will use up their savings to fund their lifetime spending needs (Moore, 2003).

Investment is putting money into an asset with the expectation of capital appreciation, dividends, and/or interest earnings. Most or all forms of investment involve some form of risk, such as investment in equities, property, and even fixed interest securities which are subject, among other things, to inflation risk.

Individuals may require borrowing money in order to meet their needs from time to time. Debt management decisions are made to help consumers avoid over indebtedness. To be able to perform calculations, individuals require a minimum understanding of compound interest and the time value of money. Decisions about how much to accumulate and how much to borrow to be able to smooth consumption over the life-cycle also require an understanding of the working of interest rates. All these variables have been explored in the conceptual framework in figure 1.

#### © University of Cape Coast https://ir.ucc.edu.gh/xmlui

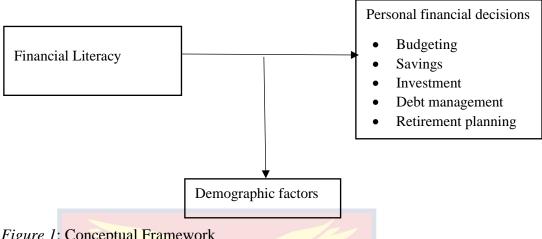


Figure 1: Conceptual Framework

Source: Author's construct (2020)

### **Chapter Summary**

This chapter explored several conventional and behavioral finance that relates to individual ability to manage his or her personal financial decisions. Empirical review was also done on financial literacy and demographic characteristics, financial literacy and retirement planning and financially literacy and personal financial management. The Conceptual framework that guided the study was also explained. The research method of this work is explored in chapter three.

#### **CHAPTER THREE**

#### **RESEARCH METHODS**

#### Introduction

This chapter thus summaries the research methodology that was followed in completing the study. It considers the research design, target population, data collection instruments, data analysis and the ethical issues faced and how they were resolved.

# **Research Design**

The research design is the blueprint for the collection, measurement and analysis of data. It is normally regarded as the framework of research methods and techniques chosen by the researcher. Research design thus provides the appropriate framework for the study. It enables the researcher to ensure that the evidence obtained effectively address the research problem as unambiguously as possible.

This research thus employed a mixed of research design; employing both descriptive and experimental designs. The descriptive design portrays an accurate profile of person, events or situations. Thus Ngechu (2004) asserted that descriptive studies serve as a variety of research objective such as descriptions of phenomenon or characteristics associated with a subject population, estimates of proportions of a population that have these characteristics and discovery of associations among different variables.

The experimental design was used to enable the researcher establish relationship between the cause and effect of the situation. In this situation to establish the relationship between financial literacy and demographic factors such as gender or sex and levels of education.

### **Population**

A population is an entire group of individuals, events or objects having common observable characteristics. This represents the entire set of units of analysis or the total collection of elements on which inference is to be made (Cooper & Schindler, 2001). The population for this study comprised staff working in the Prestea Huni-Valley Municipal Assembly main block and the seven (7) zonal councils. The zonal councils are the substructures under the Municipal Assemblies.

The research centered on staff that have been fully integrated in the LGS. Therefore, staff from the Central Administration (Registry, Planning, Human Resource, Budgeting, Internal Audit Unit among others) and the other Departments of Assembly constituted the population. Information obtained from the Seven Zonal Councils and the Central Block give a total of 900 in these Departments/Units. This is shown in the table below:

**Table 1: Target Population** 

S/N	Department	Number
1	Main block	673
2	Zonal council	227
Total		900

Source: Field survey (2020)

## **Sampling Procedure and Sampling Technique**

The sampling procedure looks at the process involved in selecting the actual respondents who were engaged in the study. It is thus very essential to consider the kind of sampling technique to be used as well as the characteristics of the population when one is selecting a sample to be studied.

In this study stratified random sampling technique was employed to collect data. This is a probability sampling procedure in which the target population is divided into a number of strata, and the sample population drawn from each division (Sarandakos, 2005). Thus the staff were grouped according to their departments and units. The strength of this technique lies in its ability to allow all population groups to be represented in the final sample (Sarandakos, 2005), thus, reducing variability.

A sample size refers to a subset of the population (Collis & Hussey, 2009). This gives the entire number of population elements from which data is to be actually collected. The desired level of confidence for this study is 95%, with the scientifically acceptable margin of error of 5%. Thus using Taro Yamane sample size determination formula, a sample size of 277 from the total population of 668 staff was determined. This is shown below:

Sample size 
$$(S) = \frac{N}{1 + N(e)2}$$

Where:

S =sample size

N = target population

e =maximum acceptable margin of error (5%)

### © University of Cape Coast https://ir.ucc.edu.gh/xmlui

Sample size (S) = 
$$\frac{900}{1+900(0.05)2}$$

$$S = 276.9 \approx 277$$

The distribution of these among the departments are as follows:

**Table 2: Distribution of respondents** 

S/N	Department	Number	Sample size
1	Central administration	673	207
2	Zonal council	227	70
	Total	900	277

Source: Field survey (2020)

### **Data Collection Procedure**

After receiving permission from the Municipal Coordinating Director (MCD), a further permission was obtained from the departmental heads before administering the questionnaires. Two hundred and seventy-seven (277) questionnaires were hand delivered to the departments' heads depending on the staff strength of the department and the chosen sample.

The questionnaires were returned in a sealed envelope to the Heads of Departments (HODs) after they were completed by respondents and then forwarded to the researcher through the departmental heads. This was to avoid the issue of bias and achieve a maximum representation. The sample therefore included employees from different departments, different ages, gender and different educational background.

## **Data Processing and Analysis**

At the end of the data collection process questionnaires were checked thoroughly for completeness. Only duly filled instruments by the respondents have been used. The Statistical Packages for Social Sciences (SPSS) version 23.0 was used to analyse the data. The quantitative data was analyzed through descriptive statistics. The Chi-Square test of independence was used to identify the associations between variables and to compare financial literacy items and some demographic characteristics of the respondents. Presentations were made in tables and charts.

#### **Ethical Consideration**

The main ethical issue faced was confidentiality of information. Only few of the assembly's information is on the website and majority are retained in the individual departments as they are regarded private. However, the researcher minimized these by ensuring respondents that any information collected was purely confidential and for academic purposes only.

The questionnaire was also designed in such a way that respondents were anonymous as there were no specific answers to trace the respondent.

### **Chapter Summary**

This chapter provided a framework for the whole research. Chapter four provide information on the information collected from the field.

#### CHAPTER FOUR

#### RESULTS AND DISCUSSION

#### Introduction

This chapter presents the results and discussion of the findings based on the data collected from the field. The presentation of the findings is done based on sub headings as they relate to the study objectives. These objectives relate to level of financial literacy among staff, the relationship between financial literacy and demographic factors and financial literacy and personal financial decisions including retirement planning. A survey questions were used.

A total of 277 questionnaires were sent to the target population and out of which 252 were completely filled and returned. This gives a response rate of 91%. Despite this, the target population was fairly represented. The results are shown in Table 3.

Table 3: Respondents Responses of Questionnaire

Category	Frequency	Percentage
Completed questionnaires	252	91.0
Incomplete questionnaires	25	9.0
Total NOBIS	277	100.0

Source: Field survey (2020)

# **Demographic Characteristics of Respondents**

**Table 4: Demographic Data of Respondents** 

Variable	Category	Frequency (n=252)	Percent (%)
Sex	Male	178	71.0
	Female	74	29.0
Age	<25	5	2.0
	25-35	33	13.0
	36-45	137	54.0
	46+	77	31.0
Education le	vel Basic level	28	11.0
	Senior High School	16	6.0
	Tertiary	208	83.0

Source: Field survey (2020)

The study assessed the demographic characteristics of the respondents as shown in Table 4. The variables examined included age of respondents in years, sex and educational status. With reference to sex or gender, 178 of the respondents representing 71% were males and 74 respondents representing 29% were females. Thus more males than females participated in the work.

The results also showed that 137 respondents representing 54% were aged between 36 and 55 years. It was seen that 208 of the respondents representing 83% indicated that they had tertiary qualifications like diploma, degree and masters. On the other hand, 16 respondents representing 6% had Senior High School or equivalent qualification.

# **Level of Financial Literacy among Respondents**

**Table 5: Level of Financial Literacy among Respondents** 

Variable	Category	Frequency (n=252)	Percent (%)
Simple interest	10	86	34.0
	100	124	49.0
	Do not know	42	17.0
Division	GH¢400,000	187	75.0
	GH¢40,000	41	16.0
	GH¢2000,000	11	4.0
	Do not know	13	5.0
Time value money	Both are rich	113	45.0
	My friend	124	49.0
	His siblings	119	47.0
	Do not know	42	17.0
Compound Interest	GH¢ 220	99	39.0
	GH¢ 242	70	27.0
	GH¢ 240	57	23.0
	Do not know	26	10.0
Inflation	Less than	65	26.0
	More than	50	20.0
	Exactly the same	58	19.0
	Do not know	90	36.0

Source: Field survey (2020)

The first objective of the study was to assess the level of financial literacy among Local Government Staff in Prestea Huni-Valley Municipal. A survey questions was used to measure the level of financial literacy of respondents presented in this section. The questions involved fundamental financial and economic concepts such as division, simple interest, compound interest, inflation and time value of money. The results in Table 5 showed that, most of the

respondents (49%) indicated that, 10% out of GH¢1,000 will be GH¢100 whilst on the part of division, majority of the respondents revealed that, GH¢2 million divided among 5 people, each will get GH¢400,000.

The results also showed that, most of the respondents (49%) revealed that a friend who inherits  $GH \not\in 10,000.00$  today and his sibling  $GH \not\in 10,000.00$ , in three (3) years from now the friend will be richer than the siblings.

Most of the respondents (39%) revealed that GH¢200.00 in a savings account will yield 10% compound interest per year of GH¢ 220.00. On the part of inflation, majority of the respondents (36%) revealed that, they do not know the interest rate on a savings account of 1% per year and inflation of 2% per year on a saving account. The responses from respondents were group into correct and incorrect scores per each financial literacy variables as shown in Figure 2.

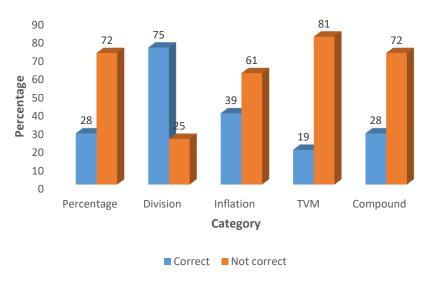


Figure 2: Assessment of financial literacy

Source: Field survey (2020)

From the results obtained, majority of the respondents did not score correct answers on the variables used to assess financial literacy. For instance, 39% had

correct answers to the question on inflation, 28% for percentages and compound interest, 19% for the time value of money and 75% for division. Of the five (5) variables (percentages, compound interest, division, time value of money and inflation) studied, correct scores were far below average with the exception of the question on division which had correct answers over 75%. The levels of financial literacy were thus found to be very low among the Local Government Service (LGS) Staff in the Prestea Huni-Valley Municipal. Financial literacy surveys have used similar set of questions in many countries around the world.

For instance, similar set of questions were used in Germany, Netherlands, Italy, Sweden, Russia, Japan and New Zealand (Lusardi & Mitchell, 2011). Some of these questions have also been fielded in Australia (Agnew, et.,al., 2012; Bateman et al., 2013) and in France (Arrondel, Debbich & Savignac, 2012). All these have shown low levels of financial literacy around the world. The finding in this study is thus similar to findings of other studies on financial literacy levels worldwide (Al-Tamimi & Kalli, 2009; Assefa & Rao. 2018). Similarly, studies by Atkinson and Messy (2012) also find substantial financial illiteracy in 14 countries at different stages of development in four continents.

These have some implications for staff participation in the financial markets especially in the stock markets. Thus studies by Van Rooij, Lusardi and Alessie (2011) postulated that people do not participate in the financial markets because of low level of financial literacy about the stock market. Similarly, Christelis et.al., (2007) revealed that financial literacy was a good predictor of financial market participation. The lack of financial literacy knowledge will prevent people from

#### © University of Cape Coast https://ir.ucc.edu.gh/xmlui

participating in the financial markets as they are unaware of the investment vehicles available.

It has also been established that people lacking financial literacy are likely to save less and borrow more loans. This is due to the fact that an understanding of basic financial literacy concepts including interest rate, compound interest, risk and inflation are needed for one to make an informed decision. It was also established that people with low financial literacy would decline to plan for their retirement and thus partake in few investment issues (Agarwalet., al., (2009).

# Relationship between Financial Literacy and Demographic Characteristics

Whereas financial literacy has been measured low in many countries, it has been observed to be related to some demographic factors. Demographic factors like age, sex, income level, education level among others have been explored by several researchers. However, sex or gender and educational level were considered in this research.

H0: There is no association between gender or sex and financial literacy.

H1: There is an association between gender or sex and financial literacy.

The first hypothesis was whether or not gender or sex has an association with financial literacy levels of respondents. To be able to either accept or fail to accept this hypothesis, I used Chi-Square Test of Independence in relation to the correct scores for the variables given as shown in Table 6.

**Table 6: Sex and Financial Literacy** 

Characteristics	Sex		Total	$X^2$	p-value	Phi
	Male	Female	_			
Percentages						
Correct	74(41.6)	33(44.6)	107(42.5)	.282	0.659	0.028
Incorrect	104(58.4)	33(44.6)	148(57.5)			
Interest						
Correct	48(27.0)	22(29.7)	70(27.8)	.199	.656	.028
Incorrect	130(73.0)	52(70.3)	182(72.2)			
Division						
Correct	135(75.8)	55(74.3)	190(75.4)	0.065	.799	016
Incorrect	43(24.2)	19(25.7)	62(24.6)			
Inflation						
Correct	66(37.1)	32(43.1)	98(38.9)	0.836	.361	-0.058
Incorrect	112(62.9)	42(56.8)	154(61.1)			
Time value of n	noney	* *				
Correct	30(16.9)	19(28.7)	49(19.4)	2.597	.107	0.102
Incorrect	148(83.1)	55(74.3)	203(80.6)			

Source: Field survey (2020)

The first hypothesis was whether or not gender and financial literacy are not independent. This was explored as stated using a chi-square test of independence. From the results in Table 6, about 45% of women had the correct answer for percentages compared to about 42% for their male counterparts. This difference was however not significant (X(1) = 0.282, P=0.659). The relationship as shown by the phi was very negligible, 0.028.

In terms of interest rate calculations, there was a slight difference in literacy levels between male and females in nominal terms but this was not statistically significant (29.7% for men as against 29.7% for women). This difference was not significant, ( $X^2(1) = .199$ , p =.656). The correct scores for division for both men and women were higher but there was some difference. This difference was

however not significant. On inflation, there was still no significant difference between male and female in terms of financial literacy levels.

On the issue of the time value of money, in nominal terms, there was a slight difference between men and women on the issue of financial literacy of the time value of money. This, however, was not significant (X (1) =2.597, p=0.107, phi=0.102;  $X^2(1) = 138.9$ , p < .001).

In all the analysis using the Chi square test of independence, there were differences between men and women for percentages, division, compound interest, time value of money and inflation but all of these were not found to be significant. I therefore fail to reject the null hypothesis that financial literacy is independent of gender or sex.

In other words, the financial literacy level of a person and hence the ability of the person to perform calculations in percentages, his or her understanding of inflation and other economic variables is not based on the sex of the person. The differences could result from the level of education or programme of study of employees.

This result is consistent with work of Adam (2017) who conducted a study on students at the University of Cape Coast and concluded that though males were slightly literate than females in all the composition none was statistically significant.

However, it is inconsistent with the findings of Van Rooij, Lusardi and Alessie (2009) that vast differences exist in knowledge levels among women and men. Men display a higher level of financial knowledge compared to women.

Assefa and Rao (2018), asserted that women were generally less financially literate than their males' counterparts.

## **Relationship between Financial Literacy and Education**

**Table 7: Education and Financial Literacy** 

Characteristics	Sex		Total	$\mathbf{X}^2$	p-	Phi
	Educated	Uneducated			value	
Percentages						
Correct	104(46.4)	3(10.7)	107(42.5)	12.994	0.000	0.227
Incorrect	120(53.6)	25(89.3)	145(57.5)			
Interest						
Correct	69(30.8)	1(3.6)	70(27.8)	9.200	.002	.191
Incorrect	155(69.2)	27(96.4)	182(72.2)			

Source: Field survey (2020)

### H0: Educational level and financial literacy are not independent

#### H<sub>1</sub>: Educational level and financial literacy are independent

The second demographic factor explored the relationship between education and financial literacy, this was done using interest and percentages computation. From the results in Table 7, with reference to percentages, within the uneducated category, more than 89.3% of respondents answered the question on percentages wrongly compared to 53.6% for those who were educated. This difference was significant ( $\chi^2 = 12.994$ , df=1, p≤0.05) and therefore the null hypothesis that financial literacy is not dependent on educational level was rejected. Similarly, at 5% significant level, there were significant differences for interest rates ( $\chi^2 = 9.200$ , df=1, p=0.002).

The finding in Table 7 concludes that there was an association and therefore I accept the alterative hypothesis and rejected the null hypothesis that educational level is independent of financial literacy. Financial literacy was found be highly

correlated with educational level. This is consistent with findings of Assefa and Rao (2018) who concluded that financial literacy was found to be extremely correlated with education and has an impact on financial product awareness (Yong & Sellappan, 2010; Bhushan & Medury, 2013)

### Financial Literacy and Personal Financial decisions

The third objective was to assess financial literacy and personal financial decisions individuals make like budgeting, savings and investments normally incorporating some attitude and behaviors.

### **Budgeting and Expenditure Management**

One best way to track one expenditure is to have a budget, either monthly or weekly or even yearly. Budgeting is seen as a quantitative plan of action prepared in advance of the period to which it relates and normally expressed in financial terms. One personal financial decision of staff explored was whether or not they prepare budget at the beginning of a month and stick to it.

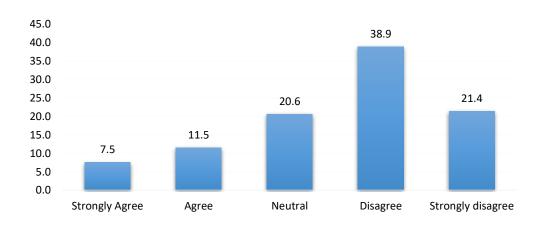


Figure 3: Budget setting among staff

Source: Field survey (2020)

From Figure 3, for budgeting, 7.5% strongly agree that they have a budget and spend according to it, 20.6% said they were neutral and 38.9% do not have a budget.

With regards to the management of expenditure, respondents were asked if they pay their bills or money borrowed in time. From Table 8, majority of them (52%) stated that they disagree with the statement that they pay money owed or borrowed or their bills in time. Only 4.4% stated that they strongly agree that they paid their bills or money borrowed in time.

**Table 8: Pay Money Borrowed or Bills on Time** 

Characteristics	Frequency	Percent
Strongly Agree	11	4.3
Agree	39	15.5
Neutral	33	13.1
Disagree	131	52.0
Strongly Disagree	38	15.1
Total	252	100.0

Source: Field survey (2020)

#### **Saving and Investment**

If one is able to control expenditure, he or she would be able to save. Saving NOBIS benefits not only the individual but also the whole nation as it provides the basis for long term investment. For saving as shown in table 9, about 11.9% strongly agree that they have a saving plan and save at least 10% of every income every month, while, 28.6% also agree that they save at least 10% of their income and stick with it whilst 38.9% respondents disagree.

## © University of Cape Coast https://ir.ucc.edu.gh/xmlui

To make savings and investment behavior, one requires knowledge in the investment vehicles including risks. Investment vehicles used in this research were to assess staff knowledge in stocks, bonds, mutual funds and other vehicles and if they have invested in term.

In terms of investment, respondent was asked if they know about stocks, bonds, mutual find and other investments vehicles, about 28.6% respondents agree that they know about these investments and have invested, while 26.6% strongly disagree.

**Table 9: Saving and Investment.** 

Characteristics	Frequency	Percent
Save at least 10% of every income		
Strongly Agree	19	7.5
Agree	29	11.5
Neutral	52	20.6
Disagree	98	38.9
Strongly Disagree	54	21.4
Investments		
Strongly Agree NOBIS	30	11.9
Agree	72	28.6
Neutral	56	22.2
Disagree	67	26.6
Strongly Disagree	27	10.7

Source: Field survey (2020)

#### **Investments and Risk**

Risk is a key concept when it comes to financial decision making especially when it comes to taking decisions in investments and this affects staff investment behavior. Thus respondents make a lot of personal investment decisions in their daily lives especially regarding where or how to safe or invest funds either for future returns or to meet some future emergency.

The first question sought respondents understanding of whether or not an investment that promises very high return with little risk is a scam or not. Out of the 252 respondents, 119 constituting 47.2% believe that an investment that promises a high return with little risk is a scam. Another 92 respondents representing 36.5% said it was not a scam. Also 11.9% claimed that they do not know and 4.4% responded that they do not understand.

Certain investments are made to a few or select individuals. From the results, the responses showed that, 120 representing 47.6% asserted that it is a scam, while 98 respondents representing 38.9% responded that it is not a scam. Risk is a major concept when it comes to financial decision making especially when it comes to taking decisions in investments and this affects staff investment behavior.

Thus respondents make a lot of personal investment decisions in their daily lives especially regarding where or how to safe or invest funds either for future returns or to meet some future emergency. The study sought to ascertain how risks influence the investing behavior of respondents by posing a number of questions which guide investment and respondents were to identify whether or not they were scam (Table 10).

From Table 10, the first question sought respondents understanding of whether or not an investment that promise of very high return with little risk is a scam or not. Out of the 252 respondents, 119 constituting 47.2% believe that an investment that promises a high return with little risk is a scam. Another 92 respondents representing 36.5% said it was not a scam. Also 11.9% claimed that they do not know and 4.4% responded that they do not understand.

**Table 10: Risk and Investment** 

Characteristics		Percentages		
	1	2	3	4
Promise of very high returns with little risk	47.2	36.5	11.9	4.4
Being told the offer is only being made to a select	47.6	38.5	9.5	4.4
few people				
Being offered by a well-known reputable financial	15.1	69.8	11.5	3.6
organization				
The minimum amount they say you have to invest	50.8	27.8	19.0	2.4
keeps reducing		3		

Source: Field survey (2020)

From the results in Table 11, it was revealed that, majority of the respondents, 150 representing 59.6% revealed that financial planning was not only about investment whilst 183 representing 72.6% indicated that financial plans should take into account possible changes in your life.

### **Financial Literacy and Retirement Planning**

The fourth objective was to explore the relationship between financial literacy and retirement planning.

**Table 11: Financial Literacy and Retirement Planning** 

Characteristics	True	False	Don't	Don't
			Know	Understand
Financial plans are set up once	104(41.3)	105(41.7)	38(15,1)	5(2.0)
and you use that same plan				
throughout your life				
Financial plans should take into	183(72.6)	44(17.5)	22(8.7)	3(1.2)
account possible changes in your				
life				
Financial planning is about	52(20.6)	150(59.6)	42(16.7)	8 (3.1)
investment only				

Source: Field survey (2020)

From the table 12, it was observed that, majority of the respondents representing 83% indicated they had ever heard of Three Tier Pension Scheme, however, only 17% was able to identify them correctly. Similarly, 23% of the respondents revealed that they think about their retirement a lot while 33% do not think about their retirements. It was also observed that only 17% stated that they can meet their retirement set amount when they retire.

NOBIS

**Table 12: Retirement Planning** 

Variable	Category	Frequency (n=252)	Percent (%)
Retirement	Little	83	33.0
	A lot	59	23.0
	Fair amount	66	26.0
	Not at all	28	11.0
	Do not know	16	6.0
Three Tier Pension	Yes	208	83.0
	No	44	17.0
Category of Tier Pension	Correctly	70	28.0
	Not correctly	182	72.0
Amounts for retirement	<gh¢100,000< td=""><td>20</td><td>8.0</td></gh¢100,000<>	20	8.0
	GH¢100,000- GH¢200,000	50	20.0
	>GH¢300,000	182	72.0
Met amount	Yes	40	17.0
	No	212	83.0

Source: Field survey (2020)

The personal financial decisions and retirement planning among respondents were assessed at the study setting. From Table 13, the results showed that, majority of the respondents representing 78% indicated that they make personal financial goals whilst most representing 42% revealed that they set financial plans once.

**Table 13: Personal Financial Decisions and Retirement Planning** 

Variable	Category	Frequency (n=252)	Percent (%)
Personal financial goal	Yes	196	78.0
	No	56	22.0
Financial plans set once	True	105	42.0
	False	104	41.0
	Neutral	43	17.0

Source: Field survey (2020)

The results portrayed an association between financial literacy levels with that of individual investment decisions in their daily and future lives. Those with high financial literacy are less likely to invest in risky assets compared to their counterparts who invest mainly based on their emotions or feelings or perceptions (Grinblatt et., al.,2010). They are likely to pursue information from networks and family members or rely on the rewards in identifying whether or not an investment is risky or scam.

This therefore shows that people lacking financial literacy have the probability to save less and borrow extra loans and those with low financial literacy would not strategize for their retirement and thus participate less in investment activities (Agarwal, Driscoll, Gabaix, & Laibson, 2009).

Financial illiterate staff also tend to be short sighted when making financial decisions and thus ill-prepared for retirement. The lack of knowledge about the Three Tier Pension Scheme which is compulsory for LGS staff, portrays a lack of interest in pension issues about staff. Most staff do not know how much they have contributed and how much would be paid when they retired. It was thus seen that many if the respondents mentioned amounts greater than GH¢300,000 as amounts

required when they retired but these were not something attainable per their salary levels.

It has been observed the mere fact that an individual think about retirement will propel the individual to be better prepared in terms of financial buffers. This is due to the fact that the propensity to plan contribute to differences in wealth holdings for otherwise similar households or individuals (Lusardi 2003; Lusardi & Mitchell 2007; Ameriks, Caplin & Leahy, 2003) owing to the strong association between financial knowledge and retirement planning. In other words, planners are more likely to accumulate more money for their retirement than those who do not plan.

This finding is similar to Lusardi and Mitchell (2006) and Van Rooij, Lusardi and Mitchell (2008) who used inflation and compound interest found a correlation with retirement planning. They then concluded that the mere fact that an individual is trying to calculate how much is needed to be safe for retirement and devising a plan is shown to correlate with greater savings close to retirement. Similalrly, Van Rooij, Kool and Prast (2007) observed that employees in the Netherlands lack knowledge in their pension plan and Rooij, Lusardi and Alessie (2009) that many employees in the US who are in the verge of retirement do not have enough savings.

There is however a strong need for local government staff to plan for their retirement. This will help them in their accumulation for retirement. It will also help in bridging the gap between the amount needed when one retires and the amount to be received from the retirement.

It must be noted that the measurement of any level of financial literacy will suffer from limitations, thus financial literacy measures serve as proxies for what intertemporal models of financial decision making will posit (Lusardi and Mitchell, 2013). The measurement of financial literacy is consequently likely to be affected by the issue of measurement mistake and this might not measure true financial literacy levels.

## **Chapter Summary**

This chapter assessed the financial literacy of respondents and its relationship to personal financial management including retirement planning. It was observed that the financial literacy levels of respondents were very low. Respondents had difficulty calculating certain financial concepts like compound interest and time value of money.

It was also observed that financial literacy levels were not dependent on gender or sex. On the other hand, educational level was seen to be highly correlated with financial literacy. Those who were educated were more literate than those who were not. Retirement planning was also seen to be highly correlated with financial literacy. Those who understand financial literacy were more prepared to plan for their finances and retirement planning.

## **CHAPTER FIVE**

## SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

#### Introduction

The main purpose of the study was to assess the financial literacy level of Local Government Staff in the Prestea Huni-Valley in the Western Region and its impact on their personal financial decisions. A structured questionnaire based on a set of questions which have been used by many writers in assessing the level of financial literacy of people worldwide was used. The data was collected and analyzed using SPSS (Chi Square Test of Independence) and Microsoft Excel 2016.

The hypothesis which guided the research work were to determine whether financial literacy levels were independent of demographic characteristics (sex and education). These hypotheses were tested in chapter four and this chapter will thus present a summary of the results, the conclusion drawn and the recommendations.

## **Summary of Findings**

- The first objective was to assess the level of financial literacy of respondents.

  The study showed that there is a low level of financial literacy among the staff in the Prestea Huni-Valley Municipal. Respondents did not understand issues of simple interest, compound interest, time value of money and inflation and therefore were unable to score correct answers above average.
- The second objective was to assess the association between financial literacy and demographic characteristics (sex and education). On the relationship between financial literacy and gender or sex, the study rejected the H0: that there is an association between gender and financial literacy. Thus the ability of a person to

perform simple financial calculations and also understand them is not based on the sex of the person.

- However, the study rejected the null hypothesis that there is no association between education and financial literacy. This means that those who are educated are more likely to perform better financially than those who have not got any education.
- The third objective was to assess the level of personal financial decisions of staff,
  it was revealed that most respondents do not have a budget and those who have
  do not stick to them. This makes them prone to spend money obtained on
  impulse.
- The final objective considered retirement planning. The study indicated that most of the respondents think about their retirements. However, the study revealed that though majority had an expectation of a certain amount to be obtained during retirement, they realized that it could not be attained from their pension contributions.
- Similarly, though respondents know about the Three Tier Pension Scheme, they could not identify them. Something which was very alarming.

## NOBIS

#### Conclusion

There is a low level of financial literacy among local government staff in the Assembly because the assembly and for that matter the Service places much emphasis on work related development of staff than their financial development.

There was no association between financial literacy and sex or gender because both males and females working on at the Local Government Service or the Metropolitan, Municipal and District Assemblies (MMDAs) are employed based on competence. It could also be that the service is employing many graduates into the various departments. The more knowledgeable a staff is the more he or she is likely to take control his/her finances and thus plan to meet his/her future. On the issue of education, there was an association between financial literacy and educational level because those who have not been to at least Junior High School might have difficulty understanding the financial concepts.

Staff were not preparing budgets and this made it difficult for them to put money aside for saving or to pay other debts or bills. Most of them therefore had little money set aside for either investment or to meet emergencies. Those who were able to invest rely on the advice of friends or relatives.

The lack of understanding of the Three Tier Pension Scheme could be due to the fact that there is little education on pensions by the MMDAs. It could also be that staff do not think much about their retirement.

### Recommendations

- 1. Staff should take the issue of financial literacy and personal financial management issues serious by not only going back to school but taking advantage of the expert advises from prominent financial institutions.
- 2. The results show low levels of financial literacy among the Local Government Staff, it is therefore recommended that the Office of the Head of Local Government Service (OHLGS) organize financial literacy especially on Pensions and retirement planning as well as investment

programmes for staff in the MMDAs as part of the capacity building process.

3. It is again recommended that MMDAs contact experts to take their staff through the Three Tier Pension scheme for them to know how they can contribute to enhancing their retirement amounts as most of the respondents all claim that the money they expect during retirement cannot be realized from their benefits.

## **Suggestions for Future Research**

It is recommended that future researchers examine the impact of financial literacy on workplace productivity. Similarly, the study was restricted by the fact that the choice of statistical technique, the Chi Square Test of independence did not explain the strength of the relation between the variables, further research could explore the strength of relationship between financial literacy and personal financial management using another technique.

NOBIS

#### REFERENCES

- Adam, A. M. (2017). Gender disparity in financial literacy: Evidence from homogeneous group. *The Journal of Accounting and Management*, 7(2), 140-148
- Agarwal, S., Driscoll, J., Gabaix, X., & Laibson, D. (2009). The age of reason:

  Financial decisions over the life-cycle with implications for regulation.

  Brookings Papers on Economic Activity, 51-117.
- Agnew, J., Hazel, B., & Susan, T. (2012). Financial Literacy and Retirement Planning in Australia. *University of New South Wales Working Paper*.
- Ahmed, R., & Saravanaraj, M. G. (2016). Implications of Heuristics in Financial Decision Making. *Asian Journal of Research in Social Sciences and Humanities*, 6 (7), 1245-1251
- Alliant Credit Union (2014). Should you offer your employees basic financial literacy training?"
- Almenberg, J., & Säve-Söderberg J. (2011). Financial Literacy and Retirement Planning in Sweden. *CeRP Working Paper*, No. 112. Retrieved from <a href="https://www.ideas.repec.org/s/crp/wpaper.html">www.ideas.repec.org/s/crp/wpaper.html</a>
- Al-Tamimi, H. A. H., & Kalli, A. A. B. (2009). Financial literacy and investment decisions of UAE investors. *The Journal of Risk Finance*, 10(5), 500 516.
- Ameriks, J., Caplin, A., & Leahy, J. (2003). Wealth accumulation and the propensity to plan. *Quarterly Journal of Economics*, 118 (3), 1007-1047.
- Ando, A., & Modigliani, F. (1963). The 'life cycle' hypothesis of saving: Aggregate implications and tests. *American Economic Review*, 53, 55-84

- Ansong, A., & Gyensare, M. A. (2012). Determinants of university working-students' financial literacy at the University of Cape Coast. Ghana. *International Journal of Business and Management*, 7(9), 126-133.
- Ansong, A., & Gyensare, F. A. (2012). Measuring financial literacy: Results of the OECD/ International Network on Financial Education (INFE) pilot study (OECD Working Papers on Finance, Insurance and Private Pensions No. 15). OECD Publishing.
- Arrondel, L., Majdi D., & Frédérique S. (2013). Financial Literacy and Financial Planning in France. *Numeracy*. <a href="http://dx.doi.org/10.5038/1936-4660.6.2.8">http://dx.doi.org/10.5038/1936-4660.6.2.8</a>
- Assefa, M., & Rao, D (2018). Financial literacy and investment behavior of salaried individuals: A case study of Wolaita Sodo Town",

  International Journal of Business and Management Inventions, 7(1)
  43-50
- Atakora, A., (2013). Measuring the Effectiveness of Financial Literacy Programs in Ghana. *International J. Management Bus. Res.*, 3 (2), 135-148.
- Atkinson, A., and Flore-Anne, M. (2012). Measuring Financial Literacy: Results of the OECD/International Network on Financial Education (INFE) Pilot Study. *OECD Working Papers on Finance, Insurance and Private Pensions*, No. 15.

- Bahovec, V., Barbic, D., & Palic, I. (2015). Testing the effects of financial literacy on debt behavior of financial consumers using multivariate analysis methods. *Croatian Operational Research Review*. CRORR 6(2015), 361–371.
- Bateman, H., Christine, E., John, G., Jordan, L., Stephen, S., and Susan, T. (2011).

  Financial Literacy, Retirement Savings and Expectations Formation:

  Evidence from Australia. Centre for Pensions and Superannuation Working

  Paper, University of New South Wales, Australia.
- Bhushan, P., & Medury, Y. (2013). Financial literacy and its determinants.

  International Journal of Engineering, Business and Enterprise

  Applications, 4(2), 155-160.
- Bodie, Z., Kane, A., & Marcus, A. J. (2014). *Investments*. Tenth edition. New York: McGraw-Hill Education.
- Boisclair, D., Lusardi, A., & Michaud, P. (2014). Financial literacy and retirement planning in Canada. *National Bureau of Economic Research*. Massachusetts Avenue Cambridge. <a href="https://www.nber.org/papers/w20297.pdf">https://www.nber.org/papers/w20297.pdf</a>
- Boon, T. H., Yee, H. S., & Ting, H. W. (2011). Financial Literacy and Personal Financial Planning in Klang Valley, Malaysia. *Int. Journal of Economics and Management*, 5(1): 149 168.
- Brabazon, T. (2000). Behavioural finance: A new sunrise or a false down? URL: http://introduction.behaviouralfinance.net/Brab00.pdf
- Cakebread, C. (2014). Why should employers care about financial literacy? *Plans and trust*, 32 (3), 6-9.

- Christelis, D. Jappelli, T. & Padula, M. (2007). Cognitive abilities and portfolio choice. *European Economic Review*, 54, 18-38.
- Clark, R., & D'Ambrosio, M. (2008). Adjusting Retirement Goals and Saving Behavior: The Role of Financial Education", Overcoming the Saving Slump: How to Increase the Effectiveness of Financial Education and Saving Programs, University of Chicago Press.
- Clark, R., Lusardi, A., & Mitchell. O. (2014). Financial literacy and retirement plan saving and investment among Federal Reserve system employees. *Final Report of the OEB, Federal Reserve Bank*.
- Collis J., Hussey R. (2009). Business Research. Palgrave MacMillan, UK Cooper,
- D.R. & Schindler, P.S. (2001). Business Research Methods. McGraw-Hill Higher Education, London.
- Deaton, A. (2005). Franco-Modigliani and the life-cycle theory of Consumption.

  BNL, Quarterly Review.
- Delafrooz, N., Paim, L., Sabri, M., F., & Masud, J. (2010). Effects of financial wellness on the relationship between financial problem and workplace productivity. *World Applied Sciences Journal* 10 (8), 871 878.
- Fonseca, R., Mullen, K., Zamarro, G., & Zissimopoulos, J. (2010). What explains the gender gap in financial literacy: The role of household decision-making.
- Grinblatt, M., Keloharju, M., & Linnainmaa, J. (2010). IQ and Stock Market Participation, CRSP *Working Paper*, 9(27).

- Hibbert, J. R., & Beutler, I. F., (2001). The effect of financial behaviors on the quality of family life: Evidence from adolescent perceptions. Paper presented at the proceedings of the Association for Financial Counselling and Planning Symposium conducted at the 19<sup>th</sup> Annual AFCPE Conference, Orlando, FL.
- Hirshleifer, D. (2014). Behavioral Finance. Merage School of Business University of California, Irvin. <a href="https://pdfs.semanticscholar.org/9005/5291db9bc6fa0">https://pdfs.semanticscholar.org/9005/5291db9bc6fa0</a> c42392d418fe0087c344381.pdf
- Hung, A., Yoong, J., & Brown, E.(2012). "Empowering women through financial awareness and education". *OECD working papers on finance, insurance and private pensions* No. 14 OECD publishing. <a href="https://www.researchgate.net/publication/254439241">https://www.researchgate.net/publication/254439241</a>
- Huston, S. J. (2010). Measuring financial literacy. The Journal of Consumer

  Affairs, 44(2), 296-316.
- Ibrahim, M. E., & Alqaydi, R. F. (2013). Financial literacy, personal financial attitude, and forms of personal debt among residents of the UAE.

  International Journal of Economics and Finance, 5(7).
- Idris, H. F., Krishnan, K. S. D., & Azmi, N. (2013). Relationship between financial literacy and financial distress among youths in Malaysia An empirical study. *Malaysian Journal of Society and Space*, 9 (4), 106 117.
- Jappelli, T., (2012). Financial literacy: *An international comparison*. Network for studies on pensions, aging and retirement. Discussion paper 09/2010.

- John G. L., Jr., Richard G. N., Stephen A. S., & Alessandra Z. (2010). Generalizable Scale of Propensity to Plan: The Long and the Short of Planning for Time and for Money. *Journal of Consumer Research*, *37*(2), 62-91.
- Kahneman, D., & Tversky, A. (1979). Prospect theory: An analysis of decision Under Risk. *Econometrica*, 47(2), 263-291.
- Kotzé, L., & Smit A. (2008). Personal financial literacy and personal debt management: The potential relationship with new venture creation. The Southern African Journal of Entrepreneurship and Small Business Management 1 (1) 135-421
- Lintner. G. (1998). What are the distinctive features of behavioural finance as applied to individual investor's decision-making.
- Local Governance Act (206). Act 936, Ghana
- Lusardi, A. (2003). Planning and saving for retirement, working paper, Dartmouth college.
- Lusardi, A. (2008). Household Saving Behaviour: The Role of Financial Literacy, Information, and Financial Education Programs. Mimeo, Darthmount College.
- Lusardi, A., & Mitchell, O. S. (2005). Financial Literacy and Planning:

  Implications for Retirement Wellbeing. Working Paper, Pension Research

  Council, Wharton School, University of Pennsylvania.
- Lusardi, A., & Mitchell, O. (2011): "Financial Literacy around the World: An Overview", Discussion Paper 02/2011-023, Netspar Discussion Papers

- Lusardi, A. & Olivia, S., Mitchell, H. (2011c). Financial Literacy around the World:

  An Overview. *Journal of Pension Economics and Finance*, 10(4): 497-508.
- Lusardi, A., & Mitchell, O. S. (2014). The Economic Importance of Financial Literacy: Theory and Evidence. *J Econ Lit. 2014 Mar; 52(1): 5–44*. <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5450829/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5450829/</a>
- Lusardi, A., (2008). Financial Literacy: An essential tool for informed consumer choice? Working Paper, No 14084, National Bureau of Economic Research.
- Lusardi, A., & Mitchell, O. S. (2007b). Financial Literacy and Retirement Preparedness. *Evidence and Implications for Financial Education*", *Business Economics*, Vol. 42, No 1, pp.35-44.
- Lusardi, A., and Olivia, S. & Mitchell, S. O. (2008). Planning and Financial Literacy: How Do Women Fare? *American Economic Review* 98(2): 413–417.
- Lusardi, A., Olivia, S., Mitchell, D., & Vilsa, C. (2010). Financial Literacy among the Young. *Journal of Consumer Affairs*, 44(2): 358-380.
- Lynch, J., G., Jr., Richard G. Netemeyer, R., G.; Spiller, S., A., & Zammit, A., (2010), "A Generalizable Scale of Propensity to Plan: The Long and the Short of Planning for Time and for Money," *Journal of Consumer Research*, 37 (1), 108–28
- Maarten, V. R. Lusardi, A. & Alessie, R. (2009). Financial literacy and retirement planning in the Netherlands, DNB Working paper No. 231/2009.

- Mahdzan, N. S., & Tabiani, S. (2013). The Impact of Financial Literacy on Individual Saving: An Exploratory Study in the Malaysian Context", *Transformations in Business & Economics*, 12 (1), 41-55.
- Mason, C. & Wilson, R. (2000). Conceptualizing financial literacy. *Research Series*Paper 200(7). Business School, Laughborough University, London.
- Mbarire, T. T. & Ali, A. I. (2014). Determinants of financial literacy levels among employees of Kenya Ports Authority in Kenya. *Research Journal of Finance and Accounting*, 5(16).
- Michael, M.,P.,(2017). Risk tolerance and behavioral finance. <a href="https://www.sun">https://www.sun</a> pointeinvestments.com/wp-content/uploads/2019/07/ed7486
- Miller, M., Godfrey, N., Levesque, B., & Stark, E. (2009). The Case for Financial Literacy in Developing Countries: Promoting Access to Finance by Empowering Consumers, The International Bank for Reconstruction and Development/The World Bank, Washington, DC.
- Million, A. & Durga, R. P.V. (2018). Financial Literacy and Investment Behavior of Salaried Individuals: A Case Study of Wolaita Sodo Town. International *Journal of Business and Management Invention (IJBMI) ISSN* (Online): 2319 8028, ISSN (Print): 2319 801X <a href="www.ijbmi.org">www.ijbmi.org</a>. Volume 7 Issue 1 PP—43-50.
- Mireku, K. (2015). Financial literacy among University students: evidence from Ghana. Doctoral dissertation, Department of Accounting and Finance, Kwame Nkrumah University of Science and Technology.

- Survey Financial Literacy Moore. D. (2003).of in Washington State: Knowledge, Behavior, Attitudes, and Experiences, Technical Report n. 03-39, Social and **Economic** Sciences Research Center, Washington State University
- Mwathi, A. W. Alex, K. A. & Akuno, N. R. (2017). Effects of Financial Literacy on Personal Financial Decisions Among Egerton University Employees, Nakuru County, Kenya. *International Journal of Economics, Finance and Management Sciences*, 5(3), 173-181.
- Mwathi, W. A. Kubasu, A., & Akuno, R. N. (2017). Effects of financial literacy on personal financial decisions among Egerton University employees, Nakuru County, Kenya. *International Journal of Economics, Finance and Management Sciences*, 5(3), 173-181.
- Nalini, G.S. (2011): Financial Literacy of Micro, Small and Medium entrepreneurs,

  International *Journal of Management Research and Review*, Vol.1

  (5)/Article No-9/, pp. 189-19
- National Pensions Act (2008). Act 766. NPA, Ghana.
- Navickas, N., Gudaitis, T., & Krajnakova, E. (2014): "Influence of Financial Literacy on Management of Personal Finances in a Young Household", Business: *Theory and Practice*, 2014, 15(1), pp.32–40
- Nayya, S. (2016). Level of financial literacy among youth. *International Journal of Business Management and Scientific Research*, vol: 14.
- Nga, K. H. J., Yong, L. H. L., & Sellappan, R. D. (2010). A study of financial awareness among youths. *Young Consumers*, 11(4), 277-290.

- Ngechu, M. (2004). *Understanding the Research Process and Methods:* An Introduction to Research Methods Nairobi, Acts Press.
- OECD. (2013). "OECD/INFE Toolkit to Measure Financial Literacy and Financial Inclusion: Guidance, Core Questionnaire and Supplementary Questions"
- OECD-INFE, (2011). Measuring financial literacy: Core questionnaire in measuring financial literacy: Questionnaire and guidance notes for conducting an internationally comparable survey of financial literacy.

  OECD. OECD International Network on Financial Education (INFE).
- Onyango, O. S. (2013). Effect of financial literacy on management of personal finances among employees of commercial banks in Kenya. Unpublished masters research project, Department of Finance & Accounting, University of Nairobi.
- Opoku, A., (2015). Financial Literacy among Senior High School Students

  Evidence from Ghana.
- Oseifuah, E.K., & Gyekye, A. B. (2014): "Analysis of the Level of Financial Literacy among South African Undergraduate Students, "Journal of Economics and Behavioral Studies, Vol.6 (3), pp. 242-250,
- Owusu, E. N. (2015). Assessing the level of financial literacy among teachers. A case study of Sekyere East District of Ashanti Region of Ghana.

  Unpublished master's thesis, Department of Accounting and Finance,

  Kwame Nkrumah University of Science and Technology, Kumasi.

- Refera, M. K., Dhaliwal, N. K., & Kaur, J. (2016). Financial Literacy for Developing Countries in Africa: A review of concept, significance and research opportunities. Journal of African Studies and Development, 8(1), P. 1-12.
- Remund, D. L. (2010). Financial literacy explicated: The case for a clear definition in an increasingly complex economy. *The Journal of Consumer Affairs*, 44(2), 276-295.
- Ricciardi, V., & Helen, H. K., (2000). What is behavioral finance? *Business*, *Education and Technology Journal* Fall 2000.
- Riyazahmed, K., & Saravanaraj, M. G., (2016). Implications of heuristics in financial decision making. *Asian Journal of Research in Social Sciences and Humanities*, 6(7), 1245-1251.
- Robert, C. R., Lusardi, A., & Olivia, S. Mitchell, S. O. (2016). *Employee Financial Literacy and Retirement Plan Behavior: A Case Study*. Pension Research Council Working Paper. Pension Research Council, University of Pennsylvania.
- Robert, K.A., Natamba, B., Zulaika, N., Akankunda, B., & Esther, A. (2013).

  Examining the levels of financial literacy and outreach of microfinance institutions in Uganda, *Issues in Business Management and Economics*Vol.1 (7), pp.193-199,
- Sandra J. H. (2010). *Measuring financial literacy*. <a href="https://onlinelibrary">https://onlinelibrary</a>. wiley.com/doi/abs/10.1111/j.1745-6606.2010.01170.

- Sarantakos, S (2005).: Social Research, 2nd edition, Palgrave Macmillan Hampshire.
- Sekar, M., & Gowri, M., (2015). A Study on Financial Literacy and its Determinants among Gen Y Employees in Coimbatore City. Great Lakes Herald 9 (1) CBM College, Coimbatore & GRG School of Management Studies, Coimbatore.
- Sevim, N., Temizel, F. & Sayilir, O. (2017). The effects of financial literacy on the borrowing behavior of Turkish FinaAXncial Consumers. *International Journal of Consumer Studies*, ISSN 1470-6423. <a href="https://www.researchgate.net/publication/263251710">https://www.researchgate.net/publication/263251710</a> The effects of financial literacy on the borrowing behavior of Turkish financial consumers.
- Shaari, N., Hassen, N., Mohammed., & Sabri. M. (2013): Financial Literacy: A study Among the University Students, *Interdisciplinary Journal of Contemporary Research in Business*, Vol. 5 (5)
- Shahrabani, S. (2013). Financial literacy among Israeli College Students. *Journal* of College Student Development.
- Sobhesh, K. Agarwalla, S. B., Joshy, J., & Jayanth, R. V., (2012). "A Survey of Financial Literacy among Students, Young Employees and the Retired in India", Indian Institute of Management Ahmedabad. Princeton.
- Sophie V, Mark F. & Adrian, F. (2013): "Financial capability, money attitudes and socioeconomic status: risks for experiencing adverse financial events," Personality and Individual Differences, 54(3), pp. 344–349,

- Suwanaphan, S. (2013). Personal financial literacy of academic support employee in Chiang Mai University. International conference, Zadar, Crotia.
- Taro, Y (1967). Statistics: An Introductory Analysis, 2nd Edition, New York:

  Harper and Row.
- Van Rooij, M. C. J. Lusardi, A. & Alessie, R. J. M., (2011). Financial literacy and stock Market participation. *Journal of Financial Economics*, forthcoming. 2(13), 152.
- Van Rooij, M., Lusardi, A., & Alessi, R. (2011). Financial literacy and stock market participation. *Journal of Financial Economics*, 101 (2), 449-472.
- Xu, L. & Zia, B. (2012). Financial Literacy around the World: An Overview of the Evidence with Practical Suggestions for the Way Forward", *Policy Research Working Paper 6107, The World Bank Development Research Group, Finance and Private Sector Development Team*
- Yoong, J., Mihaly, K., Bauhoff, S., Rabinovich, L., & Hung, A. (2013). A toolkit for the evaluation of financial capability programs in low-, and middle-income countries. Washington DC: World Bank.
- Zait, A., & Bertea, P. E. (2014). Financial literacy Conceptual definition and proposed approach for a measurement instrument. *The Journal of Accounting and Management*, 3, 37-42.

## **APPENDIX**

# **QUESTIONNAIRE**

## PERSONAL INFORMATION

1. Department			
2. Sex	a) Male	b)Female	
3. Age	.a) Less than 2	25b) 25 to 35	c) 36 to 45
d) 46 to 55		e) Above 55	
4. Educational background	d a) BECE	b) SSSCE/WASSCE	c) Tertiary
c) None			

# 5. Basic Level of Financial Literacy

S/n	Nature	Question			
a.	Numeracy-	If the chance of getting a disease is 10%, how many			
	percentage	people out of 1,000 would be expected to get the			
		disease? (i) 100 (ii) 10 (iii) 11 (iv) Do not know			
b.	Numeracy -	If 5 people all have the winning number in the lottery			
	division	and the prize is GH¢2million, how much will each of			
		them get? (i) GH¢ 400,000 (ii) GH¢ 40,000 (iii			
		GH¢) GH¢ 2,000,000 (iv) Do not know			
c.	Compound	Let's say you have GH¢200 in a savings account. The			
	interest	account earns 10% interest per year. How much would			
		you have in the account at the end of two years?			
		Assuming you did not take out the money and interest			
		after first year. (i) GH¢ 220 (ii) GH¢ 242 (iii) GH¢			
		240 (iv) Do not know			
d.	Time value of	Suppose you have a friend inherits GH¢10,000 today			
	money	and his siblings inherits GH¢10,000 3 years from now.			
	FO	Who is richer because of the inheritance? (i) My friend			
		(ii) His sibling (iii) They're equally rich (iv) Do not			
		know			
e.	Inflation	Imagine that the interest rate on your savings account			
		was 1% per year and inflation was 2% per year. After 1			
		year, would you be able to buy more than, exactly the			
		same as, or less than today with the money in this			
		account? (i) More (ii) Less (iii) Exactly the same			
		(iv) Do not know			

# 6. Retirement Planning

7. To what extent have you thought about your financial planning for your retirement? a) A lot b) A fair amount c) A little d) Not at all e) Don't know

9b. If no, how will the deficit be realized?	S/N   Nature   1   Financial plans are set up once and you use that same plan throughout your life   2   Financial plans should take into account possible changes in your life				
9b. If no, how will the deficit be realized?	<ul> <li>S/N Nature</li> <li>Financial plans are set up once and you use that same plan throughout your life</li> <li>Financial plans should take into account possible changes</li> </ul>				
9b. If no, how will the deficit be realized?	S/N Nature  1 Financial plans are set up once and you use that same plan	+			
9b. If no, how will the deficit be realized?	S/N Nature	+			
9b. If no, how will the deficit be realized?	ПОВТО	I	_		
9b. If no, how will the deficit be realized?	Don't understand	-	2	3	4
9b. If no, how will the deficit be realized?					
9b. If no, how will the deficit be realized?  11. Do you know about the three tier pension scheme? Yes/No  12. If yes what are they (i)		ı't kr	iow		4
9b. If no, how will the deficit be realized?					
9b. If no, how will the deficit be realized?	14 77 6 11	1	.1		
9b. If no, how will the deficit be realized?		1	1	1	
9b. If no, how will the deficit be realized?					
9b. If no, how will the deficit be realized?					
9b. If no, how will the deficit be realized?					
9b. If no, how will the deficit be realized?					
9b. If no, how will the deficit be realized?					_
9b. If no, how will the deficit be realized?		1			
9b. If no, how will the deficit be realized?		1	2	3	4
9b. If no, how will the deficit be realized?  11. Do you know about the three tier pension scheme? Yes/No  12. If yes what are they  (i)	Don't Understand. Please tick (√)	_			
9b. If no, how will the deficit be realized?  11. Do you know about the three tier pension scheme? Yes/No  12. If yes what are they  (i)	C				
9b. If no, how will the deficit be realized?  11. Do you know about the three tier pension scheme? Yes/No  12. If yes what are they  (i)	13 The following statements are shout an investment Detarm	ine ·	who	thor	th
9b. If no, how will the deficit be realized?	Investing				
9b. If no, how will the deficit be realized?					
9b. If no, how will the deficit be realized?	()				. • •
9b. If no, how will the deficit be realized?	(ii)(iii)				
9b. If no, how will the deficit be realized?	(i)				
9b. If no, how will the deficit be realized?	12. If yes what are they				
9b. If no, how will the deficit be realized?	11. Do you know about the three tier pension scheme: Tes/No				
9b. If no, how will the deficit be realized?	11 Do you know about the three tier pension scheme? Ves/No				
9b. If no, how will the deficit be					
	9h If no how will the deficit be				
9a. Can this amount be realized from your retirement payment? Yes/No	•	es/No	O		
8. How much would you need to have in your account when you reting (GH¢)?	9a. Can this amount be realized from your retirement payment? Y				

15. The following statements are about attitude and behavior. Please use a scale

2) Agree

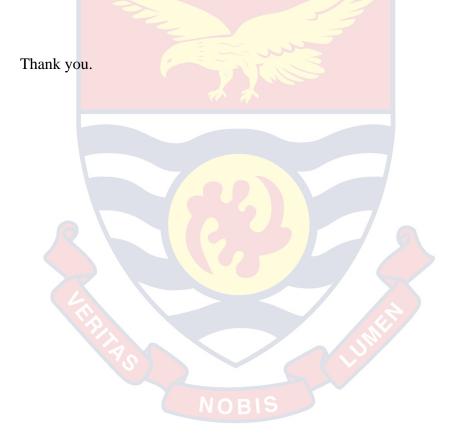
of 1 to 5, where 1) Strongly Agree

5) Strongly Disagree

4) Disagree

3) Neutral

S/N	Nature	1	2	3	4	5
1	I tend to live for today and let tomorrow take care of					
	itself					
2	I find it more satisfying to spend money than to save					
	it for the long term					
3	I pay my bills on time					
4	I am prepared to risk some of my own money when					
	saving or making an investment					
5	I keep a close personal watch on my financial affairs					
6	I set long term financial goals and strive to achieve					
	them					
7	Money comes for spending					



#### APPENDIX B

### INTRODUCTORY LETTER

### UNIVERSITY OF CAPE COAST

COLLEGE OF HUMANITIES AND LEGAL STUDIES SCHOOL OF BUSINESS

#### DEPARTMENT OF FINANCE

Telephone: 03321-32440-4, 32480-3 Direct: 03321-37871 Fax: 233-3321-32847 Telex: 2552 UCC. GH

Telegrams & Cables: University, Cape Coast Our Ref: SB/DF/IR/V.1/121

UNIVERSITY POST OFFICE CAPE COAST, GHANA

16th August, 2018

Your Ref:

The Director Western Regional Coordinating Council Sekondi Western Region

Dear Sir,

#### INTRODUCTORY LETTER: MR. PATRICK ATUBIGA ASSIBI

The bearer of this letter, Mr. Patrick Atubiga Assibi, is a Master of Business Administration (Finance) student at the Department of Finance of the School of Business, University of Cape Coast. Mr. Assibi is writing his dissertation on the topic 'The Effect of Financial Literacy on Personal Financial Decisions among Local Government Staff in the Western region'.

We would be grateful if you could offer him the necessary assistance with regards to the data and the following information he will need to enable him work on his dissertation:

- Retirement Planning
- ii. Knowledge of Financial Literacy
- iii. Knowledge on Financial Products like Savings, Investment, Debt Management, etc.

Thank you in anticipation of your co-operation.

Prof. John Gatsi, Esq. HEAD

Yours faithfully,

82