### EXAMINATION FOR THE DIPLOMA CERTIFICATE IN INFORMATION TECHNOLOGY

#### DIT110: INFORMATION AND TECHNOLOGY ESSENTIALS

**STREAM: SEM 3 TIME:** 9.00-11.00 A.M

**EXAMINATION SESSION: AUGUST**DATE: 16/08/2016

## Part-A Question One (Marks 30) Compulsory

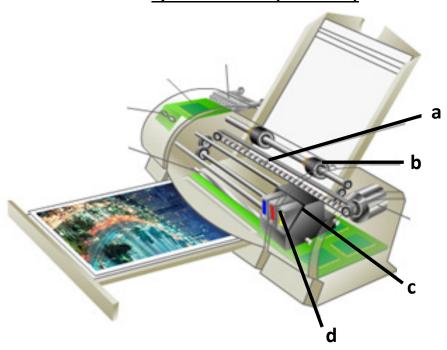
	question one (marks so) compaisory					
a)	What are t	he four basic units of electricity? Explain each one.	(Marks 4)			
b)	Adapter ca	Adapter cards are installed to add functionality to a computer. Explain any three of these				
	adapters.		(Marks 6)			
c)	Identify fo	ur characteristics of safe workspace in a safe lab.	(Marks 4)			
d)	Describe h	ow to install and configure printers.	(Marks 5)			
e)	Computer	security is very essential. Explain the following terminologies?	(Marks 5)			
	i.	Adware				
	ii.	Phishing				

- iii. Virus
- iv. A Trojan
- v. A Rootkit
- f) Identify any two illegal computer or network usage. (Marks 2)
   g) Distinguish briefly between Peer-to-peer networks and Client/server networks (Marks 2)
   h) Give any two common laptop features. (Marks 2)

# Part-B Question Two (Marks 20)

a)	Explain the purpose and benefits of preventive maintenance.	(Marks 4)
b)	What is <b>DLP?</b>	(Marks 2)
c)	What is the main Purpose of an Operating System?	(Marks 1)
d)	State and explain four characteristics of an operating system.	(Marks 4)
e)	What is the purpose of Dynamic Host Configuration Protocol (DHCP)	(marks 1)
f)	Describe mobile devices.	(Marks 4)
g)	To access a printer, a computer must have a compatible <b>interface</b> with it. Name any four types	
	of this common interface.	(Marks 4)

### **Question Three (Marks 20)**



i. There are various types of printers, name the above printer? (Marks 1)

ii. Name the parts of the above printer. (Marks 4)

a.

a)

b.

c.

d.

iii. As a computer technician, you may be required to purchase, repair, or maintain a printer. Name any 5 criteria while selecting a printer. (Marks 5)

b) Differentiate between Preventive maintenance and Troubleshooting. (Marks 4)

c) What is a **Data cables?** (Marks 1)

d)	State 5 technicians use <b>BIOS</b> .	(Marks 5)				
	Question Four (Marks 20)					
a)	State the six steps of computer troubleshooting Process	(6 marks)				
b)	What is a computer data network?	(Marks 1)				
c)	Network devices link together using a variety of connections. Name any three.	(Marks 3)				
d)	On which occasions does a laptop battery may need to be replaced?	(Marks 4)				
e)	State any five advantages of using Flash memory storage (SSD).	(Marks 5)				
f)	State Ohm's Law.	(Marks 1)				
	Question Five (Marks 20)					
a)	State and explain CommonPC Problems and Solutions.	(Marks 8)				
b)	Differentiate between the following?	(Marks 4)				
	i. LAN and WAN					
	ii. Ring and Star topology					
c)	State and explain three types of keyboards	(6 marks)				
d)	Name any two common Network Operating Systems(NOS)	(Marks 2)				
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