### RÉPUBLIQUE DU CAMEROUN Paix-Travail-Patrie

MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR

#### REPUBLIC OF CAMEROON Peace-Work-Fatherland

MINISTRY OF HIGHER EDUCATION

COMMISSION NATIONALE D'ORGANISATION DE L'EXAMEN HIGHER NATIONAL COMMISSION FOR THE ORGANISATION OF NATIONAL DIPLOMA EXAM (HND) \*\*\*\*\*\*\*\*\*\*\*\*

HIGHER NATIONAL DIPLOMA EXAM (HND) EXAM ......

National Exam of Higher National Diploma-New program – 2020 Session

Specialty/option: PMA, HUR, QMA, LTM, NGO, PSM, LAS, JOU, COC

Paper: Computer Studies

**Duration**: 2 hours

Credit: 1/2

Instructions: This paper is made up of three sections from which you are to answer all the questions in each section.

## SECTION A: MCQ (20 MARKS).

This section consists of 20 MCQs from where you write the question number and letter corresponding to the correct answer to that question in your answer booklet. For example: 30-D, if option D is the correct answer for question number 30.

1. A is a malicious software t	hat presents itself as a legitimate game, lottery, or
screen saver.	
A)Trojan horse B) Virus	C) Worm D) Spyware
2 is a utility that detects and p	rotects a personal computer from unauthorized
intrusions,	
A) Automatic updates B) Sleep mode	C) Windows Explorer D) Personal Firewall
3. Defragmenting reorganizes the files o	n a disk so that they are located in access
time.	
A) noncontiguous sectors, which slow	B) contiguous sectors, which slows
C) contiguous sectors, which speeds	D) noncontiguous sectors, which speeds
4 is the first 16-bit processor	to be produced
A) Intel 4004 B) Intel 4040	C) Intel 8086 D) I + 1 G
5. 0.6875 represented in binary is	D) Intel Core 13
A) 0.1011 <sub>2</sub> B) 0.1101 <sub>2</sub>	C) 0.1110
6. Which of the following momowies has	C) 0.1110 <sub>2</sub> D) 0.1010 <sub>2</sub>
6. Which of the following memories has	ne shortest access time?
A) HDD B) RAM C	D) Magnetic tapes
, the display	is often built into the system unit.
c) notebook computers	D) all of the above
8 combines text-based link	s with graphic, audio, and video links.
b) wull-linking	C) Hypermedia D) Table 11 .
software provides a means	or sharing distributing
documents by converting them int	o a format that can be viewed by any user.
man and a second	B) Portable Dogger
C) Document management D) Wo	B) Portable Document Format (PDF)

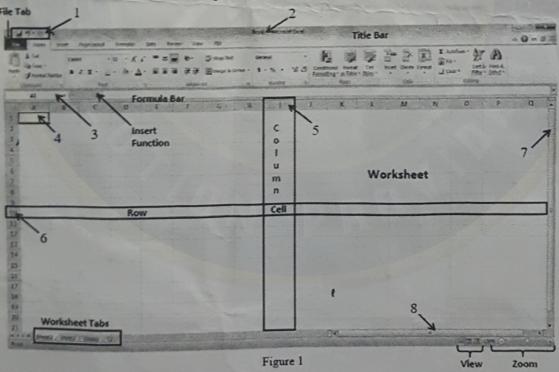
10 is mass-provariety of under A) Packaged softward C) Open source softward	re not	just a sin B) A Web appl	gle user or ication	eds of a wide company
11. A collection of indi-				
A) A software suite	D) Charavara	C) Declared as for	is a unit is known as	-0
A) A software suite	b) Shareware	C) Packaged soft	ware D) Custom's	onware
12. A(n) is part	of the motherboa	ard and connects	the processor to m	ain memory.
13 A(m)	B) System clock	C) memory r	module D) System	n bus
13. A(n) is a type	e of storage media	that consists of a f	flat, round, portable	disc made
of metal or	plastic that	is written	and read by	a laser.
A) Optical disc	B) hard disk	C) Memory	card D) thumb d	rive
14. A(n) message	e is a real-time Inte	rnet communicati	ion, where you excha	nge
messages	with	other	connected	users.
A) Text	B) Instant	C) Picture	D) Video	
15. A collection of unp	rocessed items which	ch can include nur	mbers, text, images, a	udio and
Video is knowns as				
A) Data	B) Instructions	C) Programs	D) Information	on
computer.	ich uses battery po	wer, stores config	uration information	about the
A) BIOS	B) CMOS	C) POST	D) RAM	
17. Which of the follow	ing is a valid IPv4	address?	and the second second	-
A) 172:16:4:5	B) 172.16.4.5	C)172;16;4;5	D) 172,16,4,5	
18 consist of	f a single copper wi	re surrounded by	at least three lavers	
A) Fiber-optic cable	B) Twisted-pair	cable C) Coaxi	al cable D) backby	one cable
19. A remote computer	r that provides reso	urces in a networl	k is known as a	one edole
A) Switch	B) Hub	C) Server	D) Router	
20. Which of the follow	ving is NOT an end	device in a netwo	rk?	
A) Laptop	B) Tablet	C) Switch	D) Network	printer
SECTION B: STRUC	TURAL QUESTIO	NS (30 marks)		
1 What are the two me	in company			
1. What are the two ma	al components that r	nake up a computer	r? (2 marks)	
2. Name one mechanica	al component, one el	lectronic componen	nt, and any other comp	onent which
jou can ima on a mo	mercoald. (3 mark	(2)		
3. Distinguish between type (4 marks)	system software ar	nd application soft	ware, giving an exam	ple of each
Shor (4 more ma)				
4. Define the following				
i) Internet ii) ii	nternet iii) int	ranet iv) extra	net. (1 x 4 marks)	
5. The process of start	ing or restarting a co	mputer is called boo	oting.	
what is the difference	ce between cold boot	and warm boot? (	(1, 1 mark)	

- 6. i) What are the two interfaces provided to the user by the operating system?
  - ii) Which interface would you prefer to use? Give a reason for your choice of answer.
  - iii) Name the two layers or components of an operating system? (2, 2, 2 marks)
- 7. i) What is a protocol as used in networking or computing? (1 mark)
  - ii) state the two ways by which IP addresses are configured to an end device? (2 marks)
- 8. i) What is a device driver? (1 mark)
  - ii) Which action will you take if you play an mp3 track using Window Media Player in a computer that has all sound system installed and at maximum volume, but yet you cannot hear any sound? (2 marks)
- 9. List the three media that can be used for an internet connection. (3marks)

# SECTION C (50 marks)

### Exercise I (15 marks)

- a) i) Outline the steps you would follow to create a new Microsoft Word 2013 document without using keyboard combinations. (3 marks)
  - ii) What is the default name given to the document when it is first created? (1 mark)
  - iii) Outline the steps you would follow to save the above created document on your desktop with the name Computer Studies. (2 marks)
- b) i) Which type of application is represented in Figure 1 below? (1 mark)
  - iii) What does the numbers 1 8 represent? Name them. (8 marks)



### Exercise II (15 marks)

a) Classify the following devices under the different headings in the table below:
Projector, Optical disc, Touch pad, Network card, Keyboard, WAP, Solid State Drive,
Microphone, Router, Speaker, Modem, Scanner, Magnetic tape, Mouse, Laser Printer,
Memory Card. (8 marks)

Output Device	Storage Device	Communication Device
Pro seini	OF STORY	WAB
School	magne	
lose provi	Tr consequence	
	Pro salt i Summer Sel disher	Saldshift Transport

- b) Define the following terms:
  - i) Package software
- v) Shareware
- ii) Custom Software
- vi) Freeware
- iii) Web Application
- vii) Public-domain software
- iv) Open source software

(7 marks)

## Exercise III (20 marks)

- a) How does society today use Computers in Education, Finance, Government, Health Care, and Science? (10 marks)
- b) Although you have sent your friend multiple text messages from a cell phone, he is not receiving them. What might be the problem? (4 marks)
- c) Your new Lab top computer was handed to you today. You anxiously unpack it, and then turn it on. After answering a series of questions to set up the computer, you notice it unwanted programs? (6 marks)