



COLLEGE OF ENGINEERING, SCIENCE & TECHNOLOGY (CEST)

SCHOOL OF ELECTRICAL & ELECTRONICS ENGINEERING

CERTIFICATE IV IN ELECTRONICS ENGINEERING-STAGE 1

EEE414- COMPUTER APPLICATION & SYSTEM

FINAL EXAMINATION □ PENSTER 2, 2016

TIME ALLOWED= 2 HOURS

TIME: TBA

DATE: TBA

NO. OF PAGES: 9

INSTRUCTIONS TO STUDENTS

1. *You are allowed 10 minutes Extra reading time during which you are NOT to write.*
2. *Begin each answer on a fresh page and use both sides of the sheet.*
3. *Write your candidate-number at the top of each attached sheet*
4. *Insert all written foolscaps, graph paper, drawing paper, etc. in their correct sequence and secure with string*
5. *For all sheets of paper on which rough/draft work has been done, cross each one through and ATTACH these to your answer scripts.*
6. *Write clearly the number(s) of the question(s) attempted on the top of each sheet.*
7. **ATTEMPT ALL QUESTIONS.**
8. *Show all workings where necessary.*
9. *Do not use programmable calculators, especially the ones that does the conversions of number systems.*

SECTION A**MULTIPLE CHOICE****[20 MARKS]**

1. A microprocessor unit, a memory unit, and an input/output unit form a:

- A. CPU
- B. Compiler
- C. microcomputer
- D. ALU

2. To customize and change what displays on the Status Bar of your Word Document one will select options by?

- A. Right clicking on the Vertical bar
- B. Right clicking on the Horizontal bar
- C. Right clicking on the Status bar
- D. Right clicking on the Text area

3. What are the three basic categories of a microcomputer? Choose Two

- A. Desktop, CPU and PDA
- B. CPU, Desktop and Notebook
- C. Desktop, Notebook and Personal Data Assistant
- D. Desktop, Laptop and PDA

4. Which of the following will you require to hear music on your computer?

- A. Video Card
- B. Mouse
- C. Joy Stick
- D. Sound Card

	A	B	C	D
1	3			
2	4			
3	5			
4	12			
5				
6				
7				

5. Refer to the above excel worksheet. A formula has been entered into cell A4. If the value in cell A1 is changed to 15, what will appear in cell A4?

- A. #REF
- B. 13
- C. 24
- D. =SUM(A1:A4)

6. Which of the following are font styles? Choose 2

- A. Normal
- B. Arial
- C. Times Roman
- D. Superscript

7. Which device allows your computer to talk to other computers over a telephone line as well as access the internet?

- A. RAM
- B. Modem
- C. Hard Drive
- D. CD-ROM drive

8. Which of the following commands is given to Undo an action?

- A. Ctrl + Alt + Del
- B. Ctrl + Z
- C. Ctrl + Shift + Del
- D. Ctrl + Y

9. A primary memory system in a computer is called?

- A. USB Drive
- B. Magnetic Disc
- C. RAM
- D. Floppy Disc

10. Example of secondary memories are?

- A. Hardware, floppy disks, USB drive, CD-ROM
- B. floppy disks, USB drive, CD-ROM, Magnetic Tapes
- C. USB drive, CD-ROM, Magnetic Tapes, ROM
- D. None of these

11. To remove unneeded programs and related files from a hard disk you would use a _____.

- A. antivirus program
- B. file compression program
- C. troubleshooting program
- D. uninstall program

12. The first diagnostic routine is called POST. What is its purpose?

- A. Motherboard Test
- B. Diagnostics
- C. Runs to check the computer hardware
- D. Power good signal from the microprocessor timer chip.

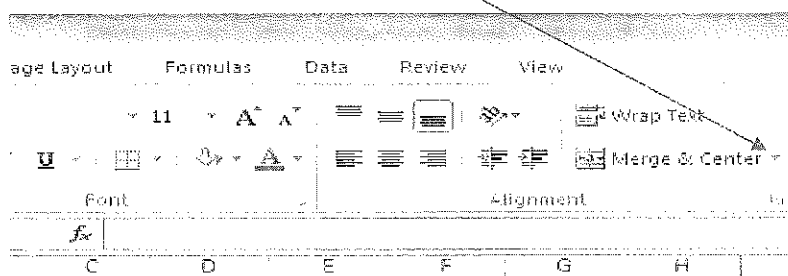
13. Computer software is a collection of?

- A. Computer memory
- B. Computer applications
- C. Computer programs
- D. Computer codes

14. WORM or Write Once Read Many is unlike CD-ROM that you?

- A. Cannot write or make changes into the data contained in it.
- B. Can write data permanently on to the disk.
- C. Can erase and re-write data on to the disk.
- D. Cannot store data above 600MB

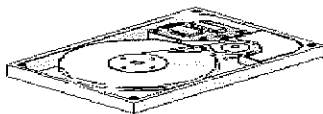
15. Refer to the graphics below. The drop down menu from the Merge and Center Button gives you which options working with your Excel document? (Choose 2)



- A. Unmerge Cells
- B. Highlight Cells
- C. Merge Across
- D. Shift Cells

16. Magnetic disk writes similar to how gramophone recorder works on magnetic disks. Select one which is correct about writing data to a computer magnetic disk.

Fixed Hard Disk



- A. The presence of a magnetic spot represents zero bit and its absence represents one bit.
- B. Each disk consists of a number of invisible concentric circles called paths.
- C. Data is stored on both the surface of the disk.
- D. Reading the information in the disk can destroy the data if read many times.

17. Using the keyboard shot cut keys for saving files one would use the keys combinations?

- A. Ctrl-I
- B. Ctrl-B
- C. Ctrl-Alt-Shift
- D. Ctrl-S

18. How do you change column width to fit the contents in MS Excel?

- A. Single-click the boundary to the left to the column heading
- B. Double click the boundary to the right of the column heading
- C. Press Alt and single click anywhere in the column
- D. All of above

19. A technician is about to service a computer. Which of the following steps should he take first?

- A. The technician should disconnect the hard drive to avoid file corruption.
- B. The technician should open up the case with a properly sized screwdriver to avoid stripping the screws.
- C. The technician should move the computer to a carpeted area to avoid impact damage.
- D. The technician should put on an anti-static strap to avoid electrostatic discharge (ESD) damage.

20: When the fan in a power supply fails, which of the following actions should be taken?

- A. Replace the fan inside of the power supply.
- B. Add an external cooling device.
- C. Repair the fan inside of the power supply.
- D. Replace the power supply.

SECTION B

TRUE & FALSE

[10 MARKS]

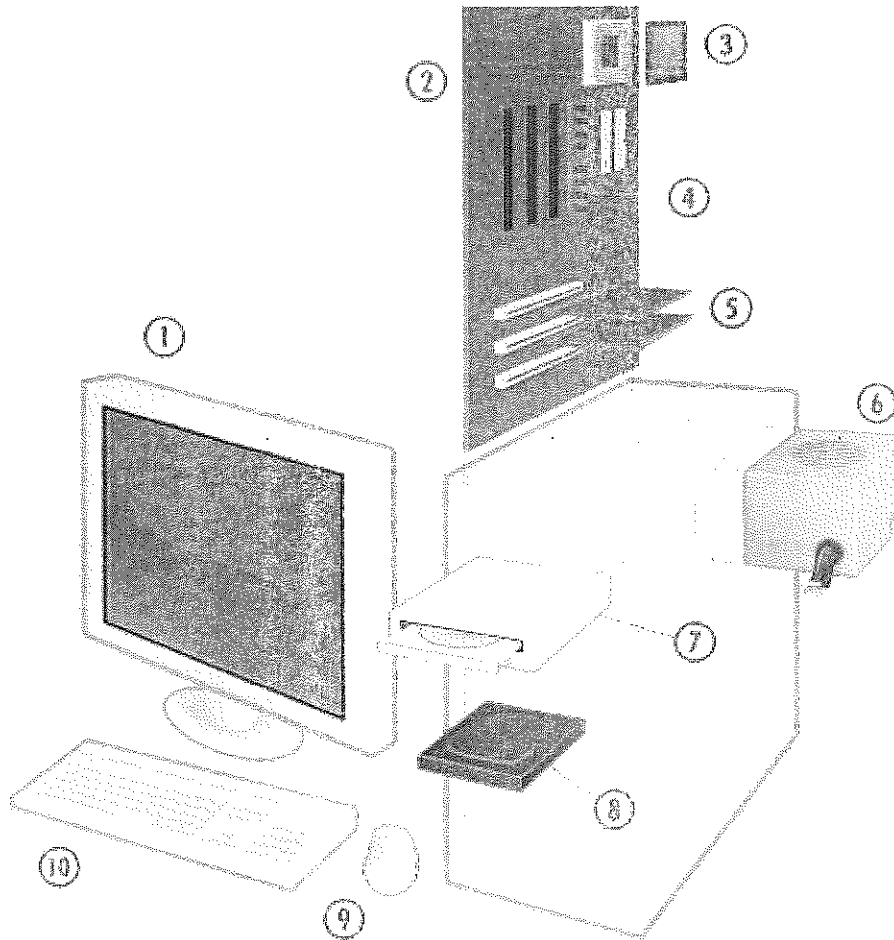
Write your answer as either *TRUE* or *FALSE* in the answer booklet provided.

1. To copy and paste using keyboard shortcuts you can use Ctrl + C then Ctrl + V.
2. The computer takes input in the form of 0 and 1.
3. Network interface cards are used to play sounds and music from speakers.
4. Expansion slots give flexibility to users to upgrade and give more capabilities to their computers.
5. In Draft View for a word document to make reading your document more comfortable.
6. The storage that loses their content during a power failure are known as non-volatile memories.
7. PROM is secondary memory.
8. A WORM allows the user to write data permanently on to the disk.
9. An advantage of magnetic tapes is it is economical.
10. The cost of storing data in tapes is expensive.

SECTION C COMPUTER HARDWARE IDENTIFICATION

[10 MARKS]

Label the computer hardware components for 1 to 10.



SECTION D**SHORT & LONG ANSWER QUESTIONS****[40 MARKS]**

1. System unit is a container that houses most of the electronic components of the computer system. Discuss the purpose or the functions of the following components found inside a system unit. (10 marks)

(i) CPU

(ii) Memory

(iii) Hard Disk

(iv) Power Supply

(v) Motherboard

2. The computer system is divided into three separate units for its operation. What are they? (3 marks)

3. What are the 5 main characteristics of computer? (2.5 marks)

4. List four categories of computer according to its processing speed? (2 marks)

5. Give four examples of expansion cards? (2 marks)

6. Discuss what it means to do a backup and why it is important? (2 marks)

7. Differentiate between system software and application software (2 marks)
8. Differentiate between the following pair of words:
- a) Input and output device (2 marks)
 - b) Random Access memory (RAM) and Read-only memory (ROM) (2 marks)
 - c) Impact and non-impact printers (2 marks)
9. Define what software is? (2 marks)
10. Define what a program is? (2 marks)
11. Explain Input and Output devices and give an example of each? (2.5 marks)
12. What is meant by Display Resolution of the monitor? (2 marks)
13. Give another name for Monitor. (2 marks)

SECTION E

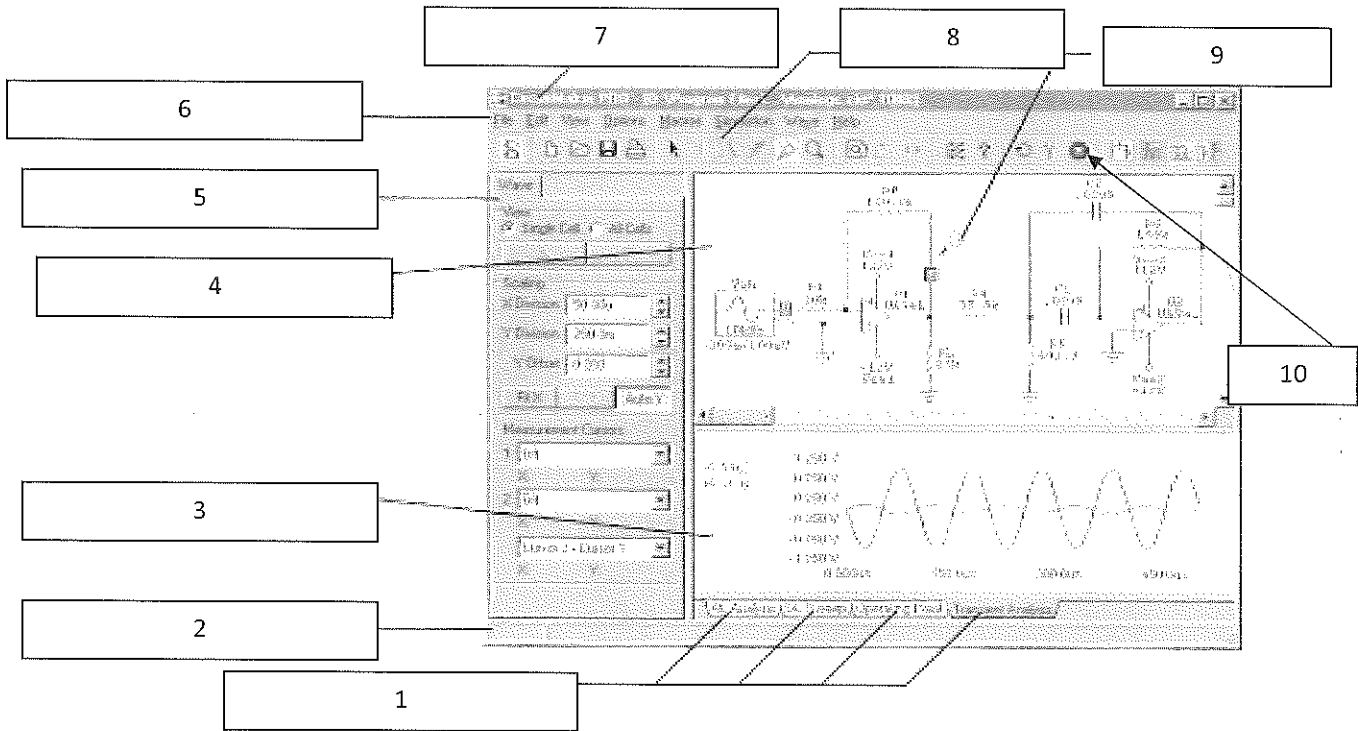
CIRCUIT MAKER

[20 MARKS]

A. IDENTIFYING CIRCUIT MAKER FEATURES

(10Marks)

Label the Circuit Maker features shown from 1 to 10



B. In the table below write down the correct circuit maker keystroke in the corresponding empty rows. (10 Marks)

QUESTION	WHAT IT DOES	CIRCUIT MAKER KEYSTROKE
1	Select All	
2	Duplicate	
3	New Macro	
4	Mirror	
5	Rotate	
6	Reset Simulation	
7	Macro Utilities	
8	Run/Stop Simulation	
9	Refresh the Screen	
10	Abort the current Operation	

*****THE END*****

