

(6 pages)

Reg. No. : .....

Code No. : 20428 E      Sub. Code : CNCA 32

U.G. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2022.

Third Semester

Computer Application

Non Major Elective — INTRODUCTION TO  
COMPUTERS

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The physical components of a computer are termed as \_\_\_\_\_
- (a) software      (b) firmware  
(c) hardware      (d) middleware

2. Which stores the address of the instruction currently being executed?
- (a) Accumulator  
(b) Program counter  
(c) Instruction register  
(d) Memory address register
3. Which of the following is a plug-and-play hardware interface?
- (a) Serial port      (b) Parallel port  
(c) SCSI port      (d) USB port
4. \_\_\_\_\_ uses 16 bits per character.
- (a) ASCII      (b) EBCDIC  
(c) Gray Code      (d) Unicode
5. Which key is used to stop a command in progress?
- (a) Alt      (b) Ctrl  
(c) Pause      (d) PrntScr
6. Which of the following allows the user to move quickly in computer games?
- (a) Mouse      (b) JoyStick  
(c) Trackball      (d) Light pen

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7. Which accesses, modifies and writes data to random access memory?

- (a) ALU                      (b) Memory  
(c) Data bus                (d) Processor

8. What is the standard optical disk measurement (diameter, thickness)?

- (a) 4.724", 0.0472"  
(b) 4.724 cm, 0.0472 cm  
(c) 4.724 pixels, 0.0472 pixels  
(d) 4.724 bits, 0.0472 bits

9. Which combines object modules to form an executable program?

- (a) Compiler                (b) Debugger  
(c) Interpreter            (d) Linker

10. Illegal distribution of registered software applications is called \_\_\_\_\_

- (a) piracy                    (b) stealing  
(c) copying                 (d) theft

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**PART B — (5 × 5 = 25 marks)**

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) Explain the classification of computers.

Or

(b) With a neat sketch explain the block diagram of a computer.

12. (a) Determine the binary equivalent of  $(35)_{10}$ .

Or

(b) Write a note on ASCII code.

13. (a) Write a note on barcode readers.

Or

(b) Write a note on inkjet printer.

14. (a) Compare RAM and ROM.

Or

(b) Explain the types of optical disks.

15. (a) Mention the services performed by an operating system for applications.

Or

(b) Write a note on software piracy.

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PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 600 words.

16. (a) Describe the generation of computers.

Or

- (b) Give the applications of computers.

17. (a) Describe the components inside a computer.

Or

- (b) (i) Determine the binary equivalent of  $(7EF)_6$ .

- (ii) Determine the octal equivalent of  $(010101)_2$ .

18. (a) Explain the working of a hand held scanner.

Or

- (b) Explain how a monitor produces an image.

19. (a) Discuss the different types of ROM.

Or

- (b) Describe a hard disk.

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20. (a) Briefly explain the functions of operating system.

Or

- (b) Describe the categories of software.
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