

с20-см-105

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BOARD DIPLOMA EXAMINATION, (C-20)

SEPTEMBER/OCTOBER-2021

DCM - FIRST YEAR EXAMINATION

BASICS OF COMPUTER ENGINEERING

Time : 3 hours]

PART-A

Andhra Pradesh

3×10=30

- **Instructions**: (1) Answer **all** questions.
- KiishnaDis (2) Each question carries three marks.
 - (3) Answers should be brief and straight to the point and shall not exceed five simple sentences.
 - 1. Define cache memory.
 - Convert (50A2)₁₆ hexadecimal number into decimal number. 2.
 - Define the following and draw their symbols : 3. 1 + 1 + 1
 - (a) Input/output box
 - (b) Decision box
 - (c) Terminal box
 - Write an algorithm to find sum of two numbers. 4.
 - 5. Define command. State the "dir" command with an example.
 - 6. List any three features of windows desktop.
 - 7. State the need of system board (mother board) components.
 - List classes of IP address with their ranges and default subnet mask. 8.

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- **9.** List the applications of big data.
- **10.** Define the terms artificial intelligence and deep learning.

Instructions : (1) Answer **all** questions.

- (2) Each question carries **eight** marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- 11. (a) Explain the current family of CPUs used in computer.

OR

- (b) (i) State the use of storage devices used in a computer.
 - (ii) State the importance of cache memory ??
- 12. (a) Explain the steps involved in drawing a flowchart with an example.

OR

- (b) Write an algorithm and draw flowchart to "accept the age of a person and check whether he/she is eligible to vote or not. A person is eligible to vote only when he/she is 18 or more."
- **13.** (a) Explain the method of finding a file using search option.

OR

- (b) Explain the step by step procedure of installation of a printer.
- **14.** (*a*) Explain POST and beep codes.

OR

(b) Define modem. Explain the role of modem in accessing the internet.

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- 15. (a) Define the following terms :
 - (i) Cyberspace
 - (ii) HCI (Human-Computer Interaction)
 - (iii) Augmented reality
 - (iv) Mixed reality

(b) Explain in detail about penetrate testing.

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- **Instructions**: (1) Answer the question.

Draw the flowchart for the following question : 16.

Accept a number and Check-

- (a) Whether the number is divisible by 2 and 5, then display message as "Number is divisible by 2 and 5".
- (b) Whether the number is divisible by 2 but not by 5, then display message as "Number is divisible by 2 only".
- Whether the number is divisible by 5 but not by 2, then display (c)message as "Number is divisible by 5 only".
- (d) Whether the number is neither divisible by 2 nor by 5, then display message as "Number is neither divisible by 2 nor by 5".

