Karnataka Board

Question Paper

Quaterly Exam 2024
Question Paper

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FIRST QUARTERLY TEST AUGUST 2024

CLASS : II PUC **SUBJECT : COMPUTER SCIENCE (41)** **Max. Marks : 35**
TIME : 1 Hr. 30 mins.

PART - A

I **Answer ALL the questions. Each question carries ONE mark. Select any one suitable choices given** **1x7=7**

1. ISA stands for _____.
   a) Industry Standard Architecture b) International Standard Architecture
   c) Industrial Standard Architecture d) International Standard Architect
2. _____ stores system date and time.
   a) PCI b) SCSI c) CMOS d) IDE
3. $(\overline{A}+B)\cdot(C+\overline{D})$ is in _____ form.
   a) Maxterm b) Minterm c) POS d) Both a and c
4. $X+\overline{X}Y =$ _____.
   a) $X\cdot Y$ b) $\overline{X}\cdot Y$ c) $\overline{X}+Y$ d) $X+Y$
5. Identify the gate 
   a) AND b) NOR c) OR d) NAND
6. _____ gate produces output 1 when all the inputs are 1.
   a) OR b) AND c) NAND d) NOR
7. The process of representing essential features without including background details is called___.
   a) Polymorphism b) Massage Passing c) Modularity d) Data abstraction

II **Fill in the blanks choosing the appropriate word given in brackets. (Linear, char, Non-linear, Traversing, select)** **1x3=3**

8. _____ is an example for primitive data structure.
9. In _____ data structure elements are not stored in a sequential memory location.
10. The process of accessing each data item in an array is_____.

PART-B

III **Answer any THREE questions. Each question carries TWO marks.** **2x3=6**

11. Mention the features of USB.
12. What is an interface ? Give example.
13. State principle of duality ? Give example.
14. What is meant by universal gates? Give example.
15. Define a) Encapsulation b) Dynamic binding

PART-C

IV **Answer any THREE questions. Each question carries THREE marks.** **3x3=9**

16. What is BUS ? Explain its types.
17. Simplify : $XYZ+XY\overline{Z}+XYZ+X\overline{Y}$.
18. Realize OR, AND, NOT using NOR.
19. Write the logic circuit and truth table for XNOR gate.
20. Explain the memory representation of one-dimensional array.

PART-D

V **Answer any TWO questions. Each question carries FIVE marks.** **5x2=10**

21. State and Prove De-Morgan's theorem using Induction method.
22. Reduce $F(W, X, Y, Z) = m_1+m_5+m_9+m_{10}+m_{11}+m_{12}+m_{13}+m_{14}$, using K-map.
23. Explain the operations performed on linear data structure.
24. Write an algorithm for Insertion Sort.
25. Write any three advantages and two disadvantages of OOP.

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