Karnataka Board

Mid-Term Question Paper

2024-25

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I PUC MID-TERM EXAMINATION, OCT./NOV.-2024

Time : 3 Hours **COMPUTER SCIENCE (41)** **Max. Marks : 70**

PART-A

I **Answer ALL the questions. Each question carries ONE mark.** **20x1=20**
Select the correct answer from the choices given:
(Repeated answers will not be considered)

1) Who invented Analytical Engine _____.
a) Herman Hollerith b) Blaize Pascal c) Charles Babbage d) John Von Neumann

2) 1 TB = _____.
a) 1024 KB b) 1024 PB c) 1024 MB d) 1024 GB

3) _____ is volatile memory.
a) ROM b) RAM c) DVD d) HDD

4) Statement (A) : Data capturing is process of gathering data from different sources in digital form.
Statement (B) : Heterogeneity among data sources sometime makes data capturing a complex task.
a) Both A and B are true b) Both A and B are false
c) A is true but B is false d) A is false but B is true

5) _____ is developed to incorporate all characters of every written languages of the world.
a) UNICODE b) ASCII c) ISCII d) ENCODE

6) The base value of hexadecimal number is _____.
a) 8 b) 2 c) 10 d) 16

7) Binary equivalent of $68_{(10)}$ is _____.
a) $100100_{(2)}$ b) $1000110_{(2)}$ c) $1000100_{(2)}$ d) $1100100_{(2)}$

8) Machine learning is a subsystem of
a) IOT b) WOT c) Robotics d) AI

9) The predictive typing feature is example of _____.
a) NLP b) AR c) VR d) Veracity

10) _____ is the process of examining data sets in order to draw conclusions about the information they contain.
a) Data capturing b) Data Analytics c) Data exam d) Data holding

11) By analysing problem you will figure out _____.
a) Input and Output b) Testing and Debugging
c) Input and Reading d) Output and Writing

12) Given flowchart symbol [ ] is used for _____.
a) Input or Output b) Decision c) Process d) Start or End

13) Which of the following is not selection statement _____.
a) While b) If c) If-Esle d) If-Else ladder

14) We need to debug because _____.
a) To increase the size of the code
b) To write the algorithm
c) To ensure the program runs without error
d) To develop the problem statement

15) What is the extension for python program ?
a) .phy b) .py c) .exe d) .php

(P.T.O)

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II **Fill in the blanks choosing the appropriate word/words from given in brackets. (Flowcharts, Flow of control, Algorithm, Decompose, Pseudocode, Syntax)**

16) _____ is defined as step by step procedure designed to perform an operation.
17) _____ is another way of representing algorithm.
18) _____ depicts flow of events as represented in flow charts.
19) The set of rules or grammer that governs formulation of statements is called _____.
20) Breaking down complex problem into sub problems called as_____.

PART-B

III **Answer any FOUR questions. Each question carries TWO marks.** **4x2=8**

21) Write the difference between primary and secondary memory.
22) What are microcontrollers ? Give example.
23) Write the major categories of computer programming languages.
24) Convert $122_{(8)}$ to Decimal.
25) Mention any two applications of Robotics.
26) What is Pseudocode ? Write any two keywords used while writing pseudocode.
27) What are the keywords in Python ? Give example.

PART-C

IV **Answer any FOUR questions. Each question carries THREE marks.** **4x3=12**

28) Define 1) Assembler 2) Complier 3) Interpreter
29) Explain any three functions of the operating system.
30) Convert $605.12_{(8)}$ to Decimal.
31) Briefly explain cloud services.
32) Write any three characteristics of a good algorithm.
33) Write an algorithm to find the square of the number.
34) What are the rules for naming an identifier in Python ?

PART-D

V **Answer any FOUR questions. Each question carries FIVE marks.** **4x5=20**

35) Define microprocessors. Explain the features of microprocessors.
36) Explain different types of operating system user interfaces.
37) Write a note on ASCII encoding schemes.
38) List any five Artificial Intelligence examples used in daily life.
39) What are the characteristics of big data ?
40) What are the key steps required for solving a problem in a computer ?
41) Briefly explain any five features of Python.

PART-E

VI **Answer any TWO questions. Each question carries FIVE marks.** **2x5=10**

42) Explain the block diagram of a computer system.
43) Convert $23D_{(16)}$ to Decimal, Octal and Binary.
44) Draw a neat flowchart to calculate area and perimeter of rectangle.

PART-F

(For Visually challenged students only)

VII 12) Which of the following is not a characteristics of a good algorithm.
a) Uniqueness b) Primary memory c) Input d) Output

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