

COMPUTER SCIENCE Paper-X (26)

ہر سوال کے سامنے چار دائرے دیئے گئے ہیں، صرف صحیح جواب والا دائرہ بھر دیں۔

دائروں کو شیڈ (بھرنے) کے لیے نیلے یا کانے رنگ کا مارکر استعمال کریں۔

جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

Time: 20 Minutes

SECTION-A

Marks: 20

Q1: Choose the correct option i.e, A,B,C or D?

- _____ is a diagrammatic representation of algorithm.
☐ Graph ☐ Program ☐ Table ☐ Flowchart
- Which symbol is used to represent a decision?
☐ Oval ☐ Diamond
☐ Rectangle ☐ Parallelogram
- Which of the following is not a high level language?
☐ Assembly language ☐ BASIC
☐ Pascal ☐ FORTRAN
- A quality whose value may change during execution of the program is called a _____.
☐ Variable ☐ Constant ☐ Symbol ☐ None
- The format specifier for integer data type is _____.
☐ %s ☐ %c ☐ %d ☐ %f
- Which operator is used to produce true result if both conditions are true?
☐ AND ☐ OR ☐ NOT ☐ All
- The case block ends with _____.
☐ } ☐ { ☐ Break ☐ Default
- Which loop structure always executes at least once?
☐ Do-while ☐ For ☐ While ☐ Nested
- The gate whose output is "1" when all the inputs are 0's is called _____.
☐ NAND gate ☐ NOR gate ☐ NOT gate ☐ XOR gate

10. _____ defines how to divide the browser window into frames?

- ☐ Rowspan ☐ Colspan ☐ Table ☐ Frameset

11. A collection of web pages hosted on a web server is called _____.

- ☐ Web address ☐ Website
☐ Home page ☐ Web browser

MRD -10th

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Note: Time allowed for Section-B & Section-C is 2:10 hours.

SECTION-B

Marks: 28

Q2: Write short answer to any SEVEN of the following parts. All parts carry equal marks.

1. What is OOP?
2. Differentiate between program syntax and program-semantic.
3. Define printf() function. Write its syntax.
4. What is the use of format specifiers? Give examples.
5. Define control statements. What are its main examples.
6. Write short note on the break statement.
7. Define nested loop. Also write its syntax.
8. Write short note on Boolean function simplification.
9. Draw truth table for the Boolean function: $Z = f(A, B) = \overline{A}\overline{B} + A\overline{B} + \overline{A}B$

SECTION-C

Marks: 16

Note: Answer any TWO questions. All question carry equal marks.

- Q3: Write an algorithm to calculate the factorial of a given number and draw flowchart for it.
- Q4: Write a program in C to input a single character and print a message "It is a vowel" or "It is a consonant". Use if-else structure.
- Q5: Create an HTML document that contains a graphical hyperlink.