

PART - A**Answer all the questions. Each question carries 1 mark.****20 x 1 = 20****I. Select the correct answer from the choices given:(Repeated answers will not be considered)**

- Name the device invented by William Oughtred
 - Napier Bones
 - Pascaline
 - Slide Rule
 - Difference Engine
- Which one is a non-impact printer ?
 - Drum printer
 - Dot printer
 - Thermal printer
 - Line printer
- What is the full form of MSB?
 - Most Significant Byte
 - Most Significant Bit
 - More Significant Bit
 - Most Significant Byte
- Which type of operating system process data at actual time?
 - Batch processing OS
 - Single user OS
 - Time sharing OS
 - Real-time OS
- The process of removing the bug from the program is called_____
 - Debugging
 - Compilation
 - Translation
 - Execution
- The wrapping up of data and functions into a single unit is known as_____
 - Encapsulation
 - Modularity
 - Abstraction
 - None of these
- Every executable statement in C++ must be terminated by a-
 - :
 - ;
 - ,
 - >>
- The size of integer variable is_____
 - 2 bytes
 - 6 bytes
 - 4 bytes
 - 8 bytes
- Setw() and Setprecision() manipulators are used to ?
 - Format processing data
 - Format output data
 - Format input data
 - None of these
- Logical operator AND is denoted by :
 - |
 - ||
 - &
 - &&
- Break statement is used in _____.
 - Switch
 - for
 - if
 - while

12. _____ finds the length of a string.
a) strlen() b) strcat()
c) strcpy() d) strcmp()
13. Give the shortcut keys to create a new file and open a file.
a) Ctrl+A & Ctrl+R b) Ctrl+C & Ctrl+N
c) Ctrl+N & Ctrl+O d) Ctrl+O & Ctrl+X
14. _____ gives the today's date.
a) date() b) max()
c) sqrt() d) today()
15. The tag used to create hyperlink is_____
a) b) <u>
c) <a> d) <p>

II. Fill in the blanks choosing the appropriate word/words from those given in brackets.

(for, webpages , hardware , base, .docx)

16. The physical components of a computer are called_____
17. The total number of digits present in any number system is called its_____
18. The _____looping statement is called a fixed execution looping statement.
19. The default extension file name of word documents is_____
20. Website is a collection of_____

PART - B

Answer any four questions. Each question carries 2 mark.

2 x 4 = 8

21. Explain the role of computers in education.
22. Mention the different types of printers.(any two)
23. Compare between compiler and interpreter.
24. Write an algorithm to find the area and circumference of a circle.
25. Define class and object.
26. Mention any two fundamental data types.
27. Write any two built-in-functions associated with `<math.h>` header file in C++.
28. Differentiate between save and save as.

PART - C

Answer any four questions. Each question carries 3 mark.

3 x 4 = 12

29. Explain the various types of RAM.
30. ADD : $64_{(10)} + 35_{(10)}$ using binary addition.
31. Write any three features of UNIX operating system.
32. Explain any three types of error.
33. What is an expression ? Explain any two.
34. What are manipulators ? Give any two example.
35. Explain the memory representation 1D-array.
36. What is structure ? How to initialize a structure with syntax and example.

PART - D

Answer any six questions. Each question carries 5 mark.

5 x 6 = 30

37. Explain the functional components of computer with a neat diagram.
38. Subtract $67_{(10)}$ from $33_{(10)}$ using 2's complement.
39. Explain the stages of problem solving methodology.
40. Explain any 5 relational operators with an example for each.
41. Explain switch statement with syntax and example.
42. Write the difference between while and do-while statement.
43. Define 1D-array. Give an example to read and print the elements.
44. Explain recursive function with an example.
45. Give any five applications of spreadsheets.

46. Explain any five text functions used in spreadsheets.

47. Explain any five tags used in HTML.