

FIRST REVISION TEST - 2023

CLASS : 11

TIME : 3 HOURS

COMPUTER SCIENCE

MARKS : 70

i. Choose the correct one :

15 x 1 = 15

1. Name the volatile memory
a. ROM b. PROM c. RAM d. EPROM
2. 2^{50} is referred as
a. Kilo b. Tera c. Peta d. Zetta
3. Which gate is called as the logical inverter?
a. AND b. OR c. NOT d. XNOR
4. The shortcut key used to rename a file in windows
a. F2 b. F4 c. F5 d. F6
5. Omitting details inessential to the task and representing only the essential features of the task is known as
a. specification b. abstraction c. composition d. decomposition
6. What was the original name given to C++?
a. CPP b. Advanced C c. C with Classes d. Class with C
7. A program written in high level language is called as
a. Object code b. Source code c. Executable code d. All the above
8. How many bytes of memory is allocated for the following variable declaration if you are using Dev C++? short int x;
a. 2 b. 4 c. 6 d. 8
9. Which function is used to check whether a character is alphanumeric or not.
a. isalpha() b. isdigit() c. isalnum() d. islower()
10. Which of the following is the collection of variables of the same type that are referenced by a common name?
a. int b. float c. Array d. class
11. Which of the following supports the transitive nature of data?
a. Inheritance b. Encapsulation c. Polymorphism d. Abstraction
12. A loop that contains another loop inside its body:
a. Nested loop b. Inner loop c. Inline loop d. Nesting of loop
13. Which amongst the following is executed in the order of inheritance?
a. Destructor b. Member function c. Constructor d. Object
14. The process of converting cipher text to plain text is called
a. Encryption b. Decryption c. key d. proxy server
15. A computer network security that monitors and controls incoming and outgoing traffic is
a. Cookies b. Virus c. Firewall d. worms

AND
NOT
NAND
101
10
10

II. Answer any 6 questions. Q.No. 24 is compulsory.

6 x 2 = 12

16. What is the function of memory
17. List the encoding systems that represents characters in memory
18. Write a short note on NAND Gate.
19. What are the security management features available in Operating System ?
20. What are called standard icons
21. How will you Rename a File?
22. What is case analysis?
23. What is the use of a header file?
24. What is Strings?

III. Answer any 6 questions. Q.No. 33 is compulsory.

6 x 3 = 18

25. Write shortnote on impact printer
26. Write note on binary number system.
27. Differentiate copy and move.
28. Distinguish between an algorithm and a process.
29. What is selection statement? write it's types?
30. What is the difference between isupper() and toupper() functions ?
31. Define an Array ? What are the types?
32. Write about encryption and decryption.
33. Write a short note on cracking.

IV. Answer all the questions.

5 x 5 = 25

34. a. Explain the basic components of a computer with a neat diagram. (OR)
b. Explain the fundamental gates with expression and truth table.
35. a. Explain the process management algorithms in Operating System. (OR)
b. Explain the versions of Windows Operating System.
36. a. Write the specification of an algorithm hypotenuse whose inputs are the lengths of the two shorter sides of a right angled triangle, and the output is the length of the third side. (OR)
b. Write about Binary operators used in C++.
37. a. Write a program to find sum of the series $S = 1 + x + x^2 + \dots + x^n$ (OR)
b. Explain Call by value method with suitable example.
38. a. What are the advantages of OOPs? (OR)
b. What are the various crimes happening using computer?