Padasalai’s Telegram Groups!

- Padasalai’s NEWS - Group
  https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA

- Padasalai’s Channel - Group
  https://t.me/padasalaichannel

- Lesson Plan - Group
  https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw

- 12th Standard - Group
  https://t.me/Padasalai_12th

- 11th Standard - Group
  https://t.me/Padasalai_11th

- 10th Standard - Group
  https://t.me/Padasalai_10th

- 9th Standard - Group
  https://t.me/Padasalai_9th

- 6th to 8th Standard - Group
  https://t.me/Padasalai_6to8

- 1st to 5th Standard - Group
  https://t.me/Padasalai_1to5

- TET - Group
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- PGTRB - Group
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- TNPSC - Group
  https://t.me/Padasalai_TNPSC
**COMMON FIRST REVISION TEST - 2020**

**STANDARD - XI**

**COMPUTER SCIENCE**

**Part - I**

**Marks: 70**

**Time: 3.00 hrs**

15 x 1 = 15

**Choose the best answer:**

1. Name the volatile memory
   - a) ROM  
   - b) PROM  
   - c) RAM  
   - d) EPROM

2. Which amongst this is not an octal number?
   - a) 645  
   - b) 234  
   - c) 876  
   - d) 123

3. Which is the fastest memory?
   - a) Hard disk  
   - b) Main memory  
   - c) Cache memory  
   - d) Blue-ray dist

4. File management manages
   - a) Files  
   - b) Folders  
   - c) Directory system  
   - d) All the above

5. Identify the default email client in Ubuntu
   - a) Thunderbird  
   - b) Firefox  
   - c) Internet Explorer  
   - d) Chrome

6. Stating the input property and the as output relation a problem is known
   - a) specification  
   - b) statement  
   - c) algorithm  
   - d) definition

7. Suppose u, v = 10, 5 before the assignment. What are the values of u and v after the sequence of assignments?
   1u := v
   2v := u
   - a) u, v = 5, 5  
   - b) u, v = 10, 5  
   - c) u, v = 5, 10  
   - d) u, v = 10, 10

8. Which of the following is not a data type modifier?
   - a) signed  
   - b) int  
   - c) long  
   - d) short

9. Identify the odd one from the keywords of jump statements
   - a) break  
   - b) switch  
   - c) goto  
   - d) continue

10. Which is return data type of the function prototype of add (int, int)?
    - a) int  
    - b) float  
    - c) char  
    - d) double

11. Array subscripts always starts with which number?
    - a) -1  
    - b) 0  
    - c) 2  
    - d) 3

12. When accessing a structure member the identifier to the left of the dot operator is the name of
    - a) structure variable  
    - b) structure tag  
    - c) structure member  
    - d) structure function

13. The member function defined within the class behave like
    - a) inline functions  
    - b) non inline function  
    - c) outline function  
    - d) data function

14. Which of the following refers to a function have more than one distinct meaning?
    - a) Function Overloading  
    - b) Member overloading  
    - c) Operator overloading  
    - d) Operations overloading

15. A computer network security that monitors and controls incoming and outgoing traffic is
    - a) cookies  
    - b) virus  
    - c) firewall  
    - d) worms

**Part - II**

**Answer any six questions. Question No. 21 is compulsory.**

6 x 2 = 12


17. Draw the truth table for XOR gate.

18. What is open source?

19. What is the difference between an algorithm and a program?

20. Assume that R starts with value 35. What will be the value of S from the following expression?
   S = (R=+) + (++R)
21. What is the use of function in C++?
22. List the operators that cannot be overloaded.
23. List of the search engines supporting Tam.

Part - III
Answer any six questions. Question No. 28 is compulsory.
24. Convert 150 into Binary, then convert that Binary number to Octal.
25. What is multi-processing?
26. What is abstraction?
27. Define factorial of a natural number recursively?
28. Convert the following ifelse to a single conditional statement.
   
   ```
   if (x > 10)
   a = m + 5
   else
   a = m;
   ```
29. Write a C++ program to accept and print your name.
30. What is inheritance?
31. Write about encryption and decryption.

Part - IV
Answer all the following:
32. Explain the basic components of a computer with a neat diagram. (OR)
   How AND and OR can be realised using NAND and NOR gate.
33. Explain the types of ROM. (OR)
   Explain process management.
34. Write the algorithm to solve the farmer, Goat, Grass and Wolf problem to cross the river. (OR)
   Explain the types of Errors?
35. Explain for loop with example. (OR)
   Explain the difference scope of variables.
36. Explain the different types of inheritance. (OR)
   Write the output of the program:
   ```
   #include<iostream>
   using namespace std;
   void print(int i)
   {cout<< "It is integer" << i << endl;}
   void print(double f)
   {cout<< "It is float" << f << endl;}
   void print(string c)
   {cout << "It is string" << c << endl;}
   int main()
   {
   print(10)
   print(10.0)
   print("Ten");
   return 0;
   }
   ```

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Send Your Questions and Answers to Our Email Id - padasalai.net@gmail.com