Part A

1. The average age of a man and his son is 28 years. The ratio of their ages is 3 :1 respectively. What is the man's age?
    A.30 years   B.38 years   C.44 years   D.42 years   E.None of these

2. How many integers are there between 300 and 600 that are divisible by 9?
    A.33   B.31   C.28   D.25   E.None of these

3. What will be the ratio of petrol and kerosene in the final solution formed by mixing petrol and kerosene that are present in three identical vessels in the ratio 4:1,5:2 and 6 :1 respectively?
    A.166 : 22   B.83 : 22   C.83 : 44   D.78 : 55   E.None of these

4. A basket contains 3 blue, 5 black and 3 red balls. If 2 balls are drawn at random, what is the probability that one is black and one is red?
    A.2/11   B.8/11   C.9/11   D.3/11   E.None of these

5. The difference of two numbers is 11 and one fifth of their sum is 9. The numbers are :
    A.31, 20   B.30, 19   C.29, 18   D.28, 17

6.   Ramesh travels 760 km to his home, partly by train and partly by car He takes 8 hours, if he travels 160 km by train and the rest by car. He takes 12 minutes more, if he travels 240 km by train and the rest by car. What are the speeds of the train and of the car?
    A.Speed of car = 90 km/h, speed of train = 60 km/h
    B.Speed of car = 100 km/h, speed of train = 80 km/h
    C.Speed of car = 80 km/h, speed of train = 70 km/h
    D.Speed of car = 100 km/h, speed of train = 90 km/h

7. Find the correctly spelled word?
    A.Adulation   B.Adlation   C.Aduletion   D.Addulation

In the questions below the sentences have been given in Active/Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive/Active voice.(Question 8-10)

8. After driving professor Kumar to the museum she dropped him at his hotel.

    A.   After being driven to the museum, Professor Kumar was dropped at his hotel.
    B.   Professor Kumar was being driven dropped at his hotel.
    C.   After she had driven Professor Kumar to the museum she had dropped him at his hotel.
    D.   After she was driven Professor Kumar to the museum she had dropped him at his hotel.

9. I remember my sister taking me to the museum.
    A.   I remember I was taken to the museum by my sister.
    B.   I remember being taken to the museum by my sister.
    C.   I remember myself being taken to the museum by my sister.
    D.   I remember taken to the museum by my sister.

10. A child could not have done this mischief.
    A.   This mischief could not be done by a child.
    B.   This mischief could not been done by a child.
    C.   This mischief could not have been done by a child.
    D.   This mischief a child could not have been done.

11. SCD, TEF, UGH, ____, WKL
    A.   CMN
    B.   UJI
    C.   VIJ
    D.   IJT

12. CMM, EOO, GQQ, _____, KUU
    A.   GRR
    B.   GSS
    C.   ISS
    D.   ITT

Part B

13. You can use C++ as a procedural, as well as an object-oriented, language

    A.   True   B.   False

14. To use either an input or output file, the program must include the _____ header file
    A.   filestream.h
    B.   fstream.h
    C.   instream.h
    D.   inoutstream.h
    E.   iostream.h

15. Which of the following services use TCP?
    1.DHCP   2.SMTP   3.HTTP   4.TFTP   5.FTP

    A.   1 and 2
    B.   2, 3 and 5
    C.   1, 2 and 4
    D.   1, 3 and 4

16. Which of the following is private IP address?
    A.12.0.0.1   B.168.172.19.39   C.172.15.14.36   D.192.168.24.43

17. Which one of the following is not a real time operating system?
    a) VxWorks   b) Windows CE   c) RTLinux   d) Palm OS

18. What will be the output of the program ?

    ```
    #include<stdio.h>
    int main()
    {
       int i=3, *j, k;
       j = &i;
       printf("%d\n", i**j*i+*j);
       return 0;
    }
    ```

    A.30   B.27   C.9   D.3

19. What will be the output of the program ?

    ```
    #include<stdio.h>

    int main()
    {
       char *p;
       p="hello";
       printf("%s\n", *&*&p);
       return 0;
    }
    ```
    A.llo   B.hello   C.ello   D.h

20. What will be the output of the program?

```
public class Foo
{
    public static void main(String[] args)
    {
        try
        {
            return;
        }
        finally
        {
            System.out.println( "Finally" );
        }
    }
}
```

A.Finally
B.Compilation fails.
C.The code runs with no output.
D.An exception is thrown at runtime.

21. What happen if we assign a value to an array element whose subscript exceeds the size of array.
    a) The program will give error   b) No output   c) program will crash   d) none of these

22. 1 Nibble is equal to how many byte?
    A.4   B.0.8   C.0.5   D.8

23. Which protocol provides network management?
    A.FTP   B.SMTP   C.TELNET   D.SNMP   E.None of these
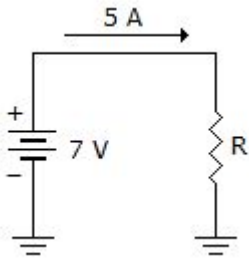
24. ALM is the acronym for _____.
    A.   Array Logic Matrix
    B.   Arithmetic Logic Module
    C.   Asynchronous Local Modulator
    D.   Adaptive Logic Module

25. If the resistance in a circuit with constant voltage increases, the current will?
    A.   increase
    B.   decrease
    C.   stay the same
    D.   Not enough information

26. What is the power in the given circuit?

A.3.6 W   B.35 W   C.175 W   D.245 W

27. What electromotive force would cause 20 A of current to flow through a 500 omega.gif resistor?
    A.0.04 V   B.2.5 V   C.25.0 V   D.10,000 V

28. Which one is the first search engine in internet?
    A.Google   B.Wais   C.Guruji   D.None of the above

29. Which one of the following program is used exclusively for AI?
    A.C   B.Java   C.J2EE   D.Prolog

30. Number of layers in OSI (Open System Interconnect) model?
    A.9   B.3   C.7   D.11