

**Academic Year 2015-2016  
Questions & Answers**

1. Name the actress who passed away at 88 recently and best known as Jason's murderous mother, Pamela Voorhees — the original killer in the iconic horror flick **Friday the 13th**.  
Ans. Betsey Palmar
2. Which state has become first state to implement ABPS [Aadhaar based Payment System] in country?  
Ans. Himachal Pradesh
3. Researchers at .....in Malaysia have succeeded in using ionised gas in a common fluorescent light tube as an antenna for a Wi-Fi Internet router.  
Ans. Mara
4. The V IT Park by Ascendas located within HITEC City, Hyderabad has been awarded platinum rating by the Indian Green Building Council (IGBC). The platinum rating has been given on achieving all prerequisites under \_\_\_\_\_ environmental categories.  
Ans. 5
5. 'GAGAN' (GPS-Aided Geo-Augmented Navigation) system developed by ISRO will provide navigational support to Railways. GAGAN is indigenously developed navigational system developed by ISRO similar to GPS system of US. GAGAN signal is broadcasted by two Geostationary Earth Orbit (GEO) satellites — \_\_\_\_\_.  
Ans. GSAT10 & GSAT8
6. US has decided to remove which country from its list of state sponsoring terrorism?  
A. Costa Rica  
**B. Cuba**  
C. Haiti  
D. Panama
7. Nobel peace prize winning organisation OPCW (Organisation for the Prohibition of Chemical Weapons) has achieved major milestone of destroying \_\_\_\_\_ of the global chemical weapons stockpile.  
A. 80%  
B. 70%  
**C. 90%**  
D. 40%

## Quizzomania @ IICMR-MCA

8. Who has been appointed as executive director of RBI?  
A. Meena Hemchandra  
B. Neelam Chaudhary  
C. Sudha Kumari  
D. Agnimitra Rana
9. Name the FIFA president, since 1998, who has resigned from his post, just four days after he was re-elected to a 5th term as president, as a consequence of a U.S.-led corruption investigation alleging widespread financial wrongdoing stretching back for years.  
A. Robert Cline  
B. João Havelange  
C. Sepp Blatter  
D. Stanley Rous
10. Which Country will host Asian football Championship 2016 AFC Under-16?  
A. India  
B. Sri-lanka.  
C. Nepal  
D. Bangladesh
11. Where is the 8th Asian Air Gun Championship held in September 2015?  
A. New Delhi  
B. Beijing  
C. Dubai  
D. Ahmedabad
12. Who among the following presented the National Awards for Senior Citizens “Vayoshreshtha Samman 2015” at Plenary Hall, Vigyan Bhawan, New Delhi on October.1 2015?  
A. Hamid Amsari  
B. Pranab Mukherjee  
C. Amit Shah  
D. Smriti Irani
13. In July 2015, government proposed a recapitalisation plan which aims to induct 70,000 crore in PSU banks to boost their capital base. On 1st October 2015, 8 PSU banks backed with Government infusion of Rs 13,955 crore. Which among the following banks is not included in these 8 banks?  
A. Canara Bank  
B. Dena Bank  
C. Andhra Bank  
D. Vijaya Bank

## Quizzomania @ IICMR-MCA

14. When is International Day of Older Persons observed?

- A. October 1
- B. October 2
- C. September 3
- D. September 28

15. Who of the following has been awarded the 2016 Genesis prize?

Ans. Itzhak Perlman

16. Who of the following has been declared as Sports Illustrated's 2015 Sportsperson of the Year?

Ans. Serena Williams

17. Who of the following has been named as the 2015 European Tour Golfer of the Year?

Ans. Rory McIlroy

18. India's first National Organ and Tissue Transplant Organization (NOTTO) has been set up in which city?

Ans. New Delhi

19. Pravin Gordhan, is related to which of the following fields?

Ans. Politician

20. Who of the following has been honoured with the Lifetime Achievement awards by the West Bengal government?

- [A] Ajoy Chakrobarty and Dwijen Mukhyopadhyay
- [B] Shantanu Moitra and Shibaji Chattopadhyay
- [C] **Kumar Sanu and Bappi Lahiri**
- [D] Shantanu Moitra and Ajoy Chakrobarty

21. A, B and C enter into a partnership and their shares are in ratio  $1/2 : 1/3 : 1/4$ , after 2 months, A withdraws half of his capital and after 12 months, a profit of Rs 1050 is divided among them. What is B's share?

- A. Rs. 420
- B. Rs. 300
- C. **Rs. 400**
- D. Rs. 350

## Quizzomania @ IICMR-MCA

22. 3 years ago, the average of a family of 5 members was 17 years. A baby having been born, the average age of the family is the same today. The present age of the baby is:

- A. 5 years
- B. 2 years**
- C. 1 year
- D. 4 years

23. Two trains are moving in opposite directions at 60 km/hr and 90 km/hr. Their lengths are 1.10 km and 0.9 km respectively. The time taken by the slower train to cross the faster train in seconds is:

- A. 58 sec
- B. 50 sec
- C. 48 sec**
- D. 56 sec

24. Anju and Bimal are partners in a business. Anju contributes  $\frac{1}{4}$  of the capital for 15 months and Bimal received  $\frac{2}{3}$  of the profit, for how long Bimal's money was used ?

- A. 5 months
- B. 3 months
- C. 8 months
- D. 10 month**

25. The average price of 10 books is Rs. 12 while the average price of 8 of these books is Rs. 11.75. Of the remaining two books, if the price of one book is 60% more than the price of the other, what is the price of each of these two books?

- A. Rs 10 and Rs 16**
- B. Rs 12 and Rs 24
- C. Rs 24 and Rs 18
- D. Rs 28 and Rs 12
- E. None of these

26. P and Q started a partnership business investing some amount in the ratio of 3:5. R joined them after six months with an amount equal to that of Q. In what proportion should the profit at the end of one year be distributed among P, Q and R?

- A. 5 : 8 : 10
- B. 6 : 10 : 5**
- C. 6 : 4 : 10
- D. 10 : 6 : 3

## **Quizzomania @ IICMR-MCA**

### **27. What is fragmentation? Different types of fragmentation?**

Ans. Fragmentation occurs in a dynamic memory allocation system when many of the free blocks are too small to satisfy any request. External Fragmentation: External Fragmentation happens when a dynamic memory allocation algorithm allocates some memory and a small piece is left over that cannot be effectively used. If too much external fragmentation occurs, the amount of usable memory is drastically reduced. Total memory space exists to satisfy a request, but it is not contiguous. Internal Fragmentation: Internal fragmentation is the space wasted inside of allocated memory blocks because of restriction on the allowed sizes of allocated blocks. Allocated memory may be slightly larger than requested memory; this size difference is memory internal to a partition, but not being used

### **28. What is meant by Middleware?**

Ans. Middleware is a distributed software needed to support interaction between clients and servers. In short, it is the software that is in the middle of the Client/Server systems and it acts as a bridge between the clients and servers. It starts with the API set on the client side that is used to invoke a service and it covers the transmission of the request over the network and the resulting response. It neither includes the software that provides the actual service - that is in the servers domain nor the user interface or the application login - that's in clients domain.

### **29. A binary tree with 20 nodes has .....null branches?**

Ans. It will have only 6 (ie, 5+1) null branches. In general, A binary tree with n nodes has exactly n+1 null nodes.

### **30. What is the type of the algorithm used in solving the 8 Queens problem?**

Ans. Backtracking

### **31. What are proxy objects?**

Ans. Objects that stand for other objects are called proxy objects or surrogates

### **32. Sort the list using quick sort**

65 70 75 80 85 60 55 50 45

Ans. Use quick sort Algorithm.

### **33. What was originally called the "imitation game" by its creator?**

Ans. Turing Test

### **34. To avoid the race condition, the number of processes that may be simultaneously inside their critical section is.....**

Ans. 1

## Quizzomania @ IICMR-MCA

**35. The average time necessary for the correct sector of a disk to arrive at the read write head is.....**

Ans. Rotational Delay

**36. What is the difference between latent and masked defects?**

Ans. A latent defect is an existing defect that has not yet caused a failure because the sets of conditions were never met.

**37. Does the minimum spanning tree of a graph give the shortest distance between any 2 specified nodes?**

Ans. No. The Minimal spanning tree assures that the total weight of the tree is kept at its minimum. But it doesn't mean that the distance between any two nodes involved in the minimum-spanning tree is minimum.

**38. What is meant by Proactive, Retroactive and Simultaneous Update?**

Ans. Proactive Update: The updates that are applied to database before it becomes effective in real world. Retroactive Update: The updates that are applied to database after it becomes effective in real world.

**39. Predict the output or error(s) for the following:**

```
A). void main()
{
int const * p=5;
printf("%d",++(*p));
}
```

Ans. Compiler error: Cannot modify a constant value. Explanation: p is a pointer to a "constant integer". But we tried to change the value of the "constant integer".

```
B). main()
{
char s[ ]="man";
int i;
for(i=0;s[ i ];i++)
printf("\n%c%c%c%c",s[ i ],*(s+i),*(i+s),i[s]);
}
```

Ans. mmmm aaaa nnnn

```
C). main()
{
static int var = 5;
printf("%d ",var--);
if(var)
main();
}
```

## Quizzomania @ IICMR-MCA

Ans. 5 4 3 2 1

Explanation: When static storage class is given, it is initialized once. The change in the value of a static variable is retained even between the function calls. Main is also treated like any other ordinary function, which can be called recursively

### 40. What is output?

```
#include main()
{
char s[]={ 'a','b','c','\n','c','\0'};
char *p,*str,*str1; p=&s[3];
str=p; str1=s;

printf("%d",++*p + ++*str1-32); }
```

Ans.It willraise error

### 41. What is guard condition?

Ans. Guard conditions affect the behavior of a state machine by enabling actions or transitions only when they evaluate to TRUE and disabling them when they evaluate to FALSE. In the UML notation, guard conditions are shown in square brackets (e.g., [key\_count == 0] in Figure 2).

### 42. What will be the output of the program?

```
#include<stdio.h>
int i;
int fun();

int main()
{

while(i)
{
fun();
main();
}
printf("Hello\n");
return 0;
}
int fun()
{
printf("Hi");
}
```

Ans.Hello

Step 1: int i; The variable i is declared as an integer type.

## Quizzomania @ IICMR-MCA

Step 1: int fun(); This prototype tells the compiler that the function fun() does not accept any arguments and it returns an integer value.

Step 1: while(i) The value of i is not initialized so this while condition is failed. So, it does not execute the while block.

Step 1: printf("Hello\n"); It prints "Hello". Hence the output of the program is "Hello".

**43..What is the output for the below code ?**

```
public class Main
{
    public static void gfg(String s)
    {
        System.out.println("String");
    }
    public static void gfg(Object o)
    {
        System.out.println("Object");
    }
    public static void main(String args[])
    {
        gfg(null);
    }
}
Ans.String
```

**44.. What is the output for the below code ?**

```
public class A {
    int i = 10;
    public void printValue() {
        System.out.println("Value-A");
    };
}
public class B extends A{
    int i = 12;
    public void printValue() {
        System.out.print("Value-B");
    } }
public class Test{
    public static void main(String argv[]){
        A a = new B();
        a.printValue();
        System.out.println(a.i);
    } }
Ans.Value B 10
```



## **Quizzomania @ IICMR-MCA**

**45. A quick test of intelligence for advanced students.**

**Don't cheat! Because if you did, the test would be no fun. I promise, there are no tricks to the test.**

**Read the sentence below and count the F's in that sentence. Count them ONLY ONCE. Do not go back and count them again.**

**See solutions for your score.**

**FINISHED FILES ARE THE RESULT OF YEARS OF SCIENTIFIC STUDY COMBINED WITH THE EXPERIENCE OF YEARS.**

Ans. here are six F's in the sentence.

A person of average intelligence finds three of them.

If you spotted four, you're above average.

If you got five, you can turn your nose at most anybody.

If you caught six, you are a genius.

There is no catch.

Many people forget the "OF"s.

The human brain tends to see them as V's and not F's.

Pretty weird, huh?

**46. A farmer is standing on one side of the river and with him are a wolf, a goat and a box with cabbages. In the river there is a small boat. The farmer wants to cross the river with all the three items who are with him. There are no bridges and in the boat there is only room for the farmer and one item. But if he leaves the goat with the cabbages alone on one side of the river the goat will eat the cabbages. If he leaves the wolf and the goat on one side the wolf will eat the goat. Only the farmer can separate the wolf from the goat and the goat from the cabbage**

**How can the farmer cross the river with all three items, without one eating the other ?**

Ans. First the farmer takes the goat across the river. He goes back to pick up the wolf. When he is across he leaves the wolf and takes back the goat. Back on the other side he leaves the goat and takes the cabbages with him. Then he picks up the goat and all three items are on the other side

**47. You are lost in a forest. The forest is between two villages. In village A live only liars, they always lie. In village B people always tell the truth. You want to go to village B. Then you see a man from village A or B. You can ask him only one question.**

**Which question will you ask him to know for sure where village B is ?**

Ans. Ask the man which city he lives in. He will always point to village B.