**VELAMMAL INSTITUTE OF TECHNOLOGY**

**MOCK - On- Campus Drive**

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**Technical Questions**

**Predict the output for the following**

1. **main(){**

**inti=400,j=300;**

**Print(“%d..%d”);**

**}**

1. 400..300
2. 0..0
3. 300..400
4. Compiler Error
5. **#define square(x) x\*x**

**main()**

**{**

**Int i;**

**i=64/square(4);**

**printf(“%d”, i);**

**}**

1. 4
2. 64
3. 256
4. Compiler Error
5. **main()**

**{**

**Char not;**

**not=!2;**

**printf(“%d”, not)**

**}**

1. Null
2. 1
3. 0
4. Error
5. **#include <iostream.h>**

**// empty class**

**class Sample**

**{**

**};**

**int main()**

**{**

**Sample obj;**

**cout<<sizeof(Sample) <<","<<sizeof(obj);**

**return 0;**

**}**

1. 0,0
2. 4,4
3. 1,1
4. 2,2
5. **Which of the following type of class allows only one object of it to be created**
6. Virtual class
7. Abstract class
8. Singleton class
9. Friend class
10. **If value has “NOT” type, then the pointer pointing to this value will be known as**
11. Empty pointer
12. Null pointer
13. Void pointer
14. None of above
15. **By default, members of a C++ class are:**
16. Private
17. Public
18. Protected
19. None of the above
20. **C++ supports:**
21. Multiple inheritance
22. Pointer to functions
23. Recursion
24. All of the above
25. **Abstract class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?**
26. Support to create an object
27. Not Support final, static, instance Methods.
28. Support to inherit to another class
29. Not support to interface.
30. **Queue can be used to implement?**
31. Radix sort
32. Quick sort
33. Recursion
34. Depth first search
35. **The number of binary trees with 3 nodes which when traversed in post order gives the sequence A, B, C is ?**
36. 3
37. 9
38. 7
39. 5
40. **The postfix expression for \* + a b - c d is?**
41. ab + cd - \*
42. ab cd + - \*
43. ab + cd \* -
44. ab + - cd \*
45. **The Primary key must be**

A. Non Null  
B. Unique  
C. Option A or B  
D. Option A and B

1. **A command to remove a relation from an SQL database**

A. Delete table <table name>  
B. Drop table <table name>  
C. Erase table <table name>  
D. Alter table <table name>

1. **Data Manipulation Language (DML) is not to**

A. Create information table in the Database  
B. Insertion of new information into the Database  
C. Deletion of information in the Database  
D. Modification of information in the Database

1. **Which of the following IP address class is Multicast**

A. Class A  
B. Class B  
C. Class C  
D. Class D

1. **Which of the following is correct regarding Class B Address of IP address**

A. Network bit – 14, Host bit – 16  
B. Network bit – 16, Host bit – 14  
C. Network bit – 18, Host bit – 16  
D. Network bit – 12, Host bit – 14

1. **How many layers are in the TCP/IP model?**

A. 4 layers  
B. 5 layers  
C. 6 layers  
D. 7 layers

1. **Command Interpreter is also known as**

A. Prompt  
B. Shell  
C. Command  
D. DOS Prompt

1. **Which of the following are System Programming Language?**

A. C  
B. PL/360   
C. Pascal  
D. All of the above

1. **The operating system keeps the information of files in a table called**  
   A. File Folder Table (FFT)  
   B. File Index Table (FIT)  
   C. File Allocation Table (FAT)  
   D. Directory Index Table (DIT)
2. **What is the use of Private Cloud?**
3. It contains one OS.
4. It contains Multiple VM’S in one Server.
5. It contains one Server no VM’S.
6. It contains multiple OS.
7. **What is use of VMWare?**
8. Reduced the cost.
9. Contains Multiple VM’s in One Server.
10. Supports Virtual Network
11. All the above
12. **Which OS supports DNS service**
13. Windows 8
14. Windows 7
15. Windows Server 2012
16. None of the above
17. **What is NFC in Android Mobile**
18. Near Field Communication
19. Near Field Connection
20. Next Friend Communication
21. New File Communication

**English Grammar**

**Choose the appropriate pronoun to complete the sentence**

1. **We know that we can count on James, Anne, and \_\_\_\_\_\_\_\_**
   1. Their b. her c. his d. None of these

**Choose the appropriate adjective to complete the sentence**

1. **He did not pass the course as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_as he thought he would**
   1. Easy b. Easily c. Ease d. None of these
2. **This is the \_\_\_\_\_\_\_\_\_\_\_\_\_book I have ever read**
   1. Interesting b. Most interesting c. Interested d. None of these

**Each question consists of 2 words which have a certain relationship to each other followed by 4 pairs of related words. Select the pair which has the same relationship.**

1. **SYMPHONY : COMPOSER**
   1. Leonardo : music b. Fresco : Painter c. Colours : pallet d. art : appreciation
2. **AFTER : BEFORE**
   1. First : Second b. present: past c. contemporary : Historic d. successor : predecessor

**Select the correct adverb from the given sentence**

1. **Others build suspense very slowly**
   1. Others, very b. Others, Slowly c. others, very, slowly d. very, slowly
2. **I especially like detectives who carefully hunt for clues.**
   1. Hunt, carefully b. like, especially c.especially, carefully d. like
3. **I never start reading a mystery story if I have homework because then it is more tempting to read than to study**
   1. Never, then, more b. a, never, then c. never, more d. a, never, more

**Fill in the blanks with appropriate Auxiliary verbs**

1. **The match \_\_\_\_\_\_\_\_ already started when we arrived**
   1. Do b. has c**.** had d. have
2. **My boss never \_\_\_\_\_\_\_time.**
   1. Do b. has c. had d. have

**Logical Reasoning**

1. **Stacey, Carla, Julia and Rose want to take seats in a cinema. There is only 1 isle seat and the rest are in a line next to it. If Rose want to sit in the aisle seat, Julia wants to sit next to Stacey, and Carla doesn’t want to sit next to Julia, how will they sit (starting at the isle)?**

a) Rose, Julia, Stacey, Carla b) Rose, Carla, Julia, Stacey

c) Stacey, Carla, Julia, Rose d) Rose, Stacey, Julia, Carla

1. **I have different shapes. The triangle is smaller than the rectangle. The rectangle is larger than the circle. The circle is smaller than the square. The octagon is larger than the triangle. The pentagon is smaller than the octagon. The ellipse is larger than the pentagon. Which of these cannot be the largest shape?**

a) Rectangle b) Circle c) Octagon d) Square

1. **Kevin decided to share his property among his three sons in the following manner. Of the total property one-third is kept for him and his wife. Of the remaining property three-fourth is given to his first son. The remaining property is equally divided between the second and third son. If the total property of Kevin is worth $60,000, find the worth of the property received by his third son.**

a) $5500 b) $5000 c) $6000 d) $4000

1. **Tom is taller than Max. Max is shorter than James. James is shorter than Don. Which of the following must be true?**

a) Tom is taller than James

b) Tom is shorter than James

c) Max is shorter than Don

d) Don is taller than Tom

1. **I have a Tiger, a Lion, a Bunny, a Sheep, a carrot and a cabbage. The bunny and the sheep will eat the cabbage or the carrot, the lion and the tiger will eat the bunny or the sheep, and the lion will fight the tiger. If I have cages that can fit 2 animals/vegetables each, what’s the minimum number of cages I need to fit all of these without any fighting going on?**

a) 3, lion and tiger, sheep and cabbage, bunny and carrot

b) 4, lion, tiger, sheep and bunny, cabbage and carrot

c) 3, lion and carrot, tiger and cabbage, sheep and bunny

d) 3, lion and tiger, sheep and bunny, cabbage and carrot

**Mathematical Ability**

**41. Find the next number in the series 1, 3, 7, 13, 21, 31**

(a) 43

(b) 33

(c) 41

(d) 45

**42. A person travels 12 km in the southward direction and then travels 5 km to the right and then travels 15 km toward the right andfinally travels 5 km towards the east, how far is he from his starting place?**

(a) 5.5 km

(b) 3 km

(c) 13 km

(d) 6.4 km

**43. If "PROMPT" is coded as QSPLOS, then "PLAYER" should be**

(a) QMBZFS

(b) QWMFDW

(c) QUREXM

(d) URESTI

**44. If A speaks the truth 80% of the times, B speaks the truth 60% of the times. What is the probability that they tell the truth at the same time?**

(a) 0.8

(b) 0.48

(c) 0.6

(d) 0.14

**45. Two series are 16, 21, 26.... And 17, 21, 25.....What is the sum of first hundred common numbers**

(a) 101100

(b) 110100

(c) 101110

(d) 110101

**46. There are two sections in a question paper each contain five questions. A student has to answer 6 questions. Maximum no. of questions that can be answered from any section is 4. How many ways he can attempt the paper?**

(a) 50

(b) 100

(c) 120thestudentdaily.com 2010

(d) 200

**47. A and B are two numbers selected randomly from 1, 2, 3.... 25 what is the probability of A and B are not equal.**

(a) 1/25

(b) 24/25

(c) 13/25

(d) 2/25

**48. What is the product of the irrational roots of the equation (2x-1) (2x-3) (2x-5) (2x-7) =9?**

(a) 3/2

(b) 4

(c) 3

(d) 3/4

**49. How long will a train 100m long travelling at 72kmph take to overtake another train 200m long travelling at 54kmph**

(a) 70sec

(b) 1min

(c) 1 min 15 sec

(d) 55 sec

**50. A and B can finish a piece of work in 20 days .B and C in 30 days and C and A in 40 days. In how many days will A alone finish the job**

(a) 48

(b) 34 2/7

(c) 44

(d) 45