**DURATION: 45min MARKS: 25**

**RMD ENGINEERING COLLEGE**

**CSE DEPARTMENT**

**PLACEMENT TRAINING TEST-1**

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| **NAME** |  | **REG NO:** |  |

1)The IT giant Tirnop has recently crossed a head count of 150000 and earnings of $7 billion. As one of the forerunners in the technology front, Tirnop continues to lead the way in products and services in India. At Tirnop, all programmers are equal in every respect. They receive identical salaries ans also write code at the same rate.Suppose 12 such programmers take 12 minutes to write 12 lines of code in total. How long will it take 72 programmers to write 72 lines of code in total?

a) 12 b)6 c)18 d)72

2)The citizens of planet nigiet are 8 fingered and have thus developed their decimal system in base 8. A certain street in nigiet contains 1000 (in base 8) buildings numbered 1 to 1000. How many 3s are used in numbering these buildings?

a) 256 b)192 c)54 d)64

3)A sheet of paper has statements numbered from 1 to 40. For all values of n from 1 to 40, statement n says: 'Exactly n of the statements on this sheet are false.' Which statements are true and which are false?

1. All the statements are false.
2. The odd numbered statements are true and the even numbered statements are false.
3. The even numbered statements are true and the odd numbered statements are false.
4. The 39th statement is true and the rest are false.

4)After the typist writes 12 letters and addresses 12 envelopes, she inserts the letters randomly into the envelopes (1 letter per envelope). What is the probability that exactly 1 letter is inserted in an improper envelope?

a) 12/212 b) 0 c)11/12 d)1/12

5)A sheet of paper has statements numbered from 1 to 40. For each value of n from 1 to 40, statement n says "At least n of the statements on this sheet are true." Which statements are true and which are false?

1. The even numbered statements are true and the odd numbered are false.
2. The odd numbered statements are true and the even numbered are false.
3. The first 26 statements are false and the rest are true.
4. The first 13 statements are true and the rest are false

6)For the FIFA world cup, Paul the octopus has been predicting the winner of each match with amazing success. It is rumored that in a match between 2 teams A and B, Paul picks A with the same probability as A's chances of winning.Let's assume such rumors to be true and that in a match between Ghana and Bolivia, Ghana the stronger team has a probability of 2/3 of winning the game. What is the probability that Paul will correctly pick the winner of the Ghana-Bolivia game?

a)1/9 b)2/3 c)4/9 d)5/9

7)Out of 7 children the youngest is boy then find the probability that all the remaining children are boys  
a)1/64 b)1/32 c)1/128 d)1/256  
8)On planet zorba, a solar blast has melted the ice caps on its equator. 8 years after the ice melts, tiny plantoids called echina start growing on the rocks. echina grows in the form of a circle and the relationship between the diameter of this circle and the age of echina is given by the formulad = 4 \* sqrt (t - 8) for t = 8where d represents the diameter in mm and t the number of years since the solar blast.Jagan recorded the radius of some echina at a particular spot as 8mm. How many years back did the solar blast occur?

a)16 b)12 c)24 d)8

9)Given 3 lines in the plane such that the points of intersection form a triangle with sides of length 20, 20 and 30, the number of points equidistant from all the 3 lines is

a) 0 b)1 c)3 d)4

10)The teacher is testing a student's proficiency in arithmetic and poses the following question.1/3 of a number is 3 more than 1/6 of the same number. What is the number? Can you help the student find the answer?

a)18 b)21 c)12

11)On the planet Oz, there are 8 days in a week- Sunday to Saturday and another day called Oz day. There are 36 hours in a day and each hour has 90 min while each minute has 60 sec. As on earth, the hour hand covers the dial twice every day. Find the approximate angle between the hands of a clock on Oz when the time is 12:40 am.

a)89 b)251 c)111 d)71

12) There are two water tanks A and B, A is much smaller than B. While water fills at the rate of 1 liter every hour in A, it gets filled up like, 10, 20, 40,80, 160…..in tank B. (At the end of first hour, B has 10 liters, second hour it has 20 liters and so on). If tank B is 1/32 filled of the 21 hours, what is total duration of hours required to fill it completely?  
a) 26 B)25 c)5 d)27

13)Ferrari S.p.A. is an Italian sports car manufacturer based in Maranello, Italy. Founded by Enzo Ferrari in 1928 as Scuderia Ferrari, the company sponsored drivers and manufactured race cars before moving into production of street-legal vehicles in 1947 as Ferrari S.p.A.. Throughout its history, the company has been noted for its continued participation in racing, especially in Formula One, where it has enjoyed great success. Rohit once bought a Ferrari. It could go 2 times as fast as Mohit's old Mercedes. If the speed of Mohit's Mercedes is 32 km/hr and the distance travelled by the Ferrari is 952 km, find the total time taken in hours for Rohit to drive that distance.

a)14.88 b)29.75 c)15.88 d)476

14)In a market 4 men are standing. The average age of the four before 4years is 45, after some days one man is added and his age is 49. What is the average age of all?

1. 43 b)45 c)47 d)49

15)A man jogs at 6 mph over a certain journey and walks over the same route at 4 mph. What is his average speed for the journey?

a) 2.4 mph b) 4.8 mph c) 4 mph d) 5 mph

16) A scientist was researching on animal behavior in his lab. He was very interested in analyzing the behavior of bear. For some reason he travelled 1mile in north direction & reached at North Pole. There he saw a bear. He then followed the bear around 1 hr with a speed of 2km/hr in east direction. After that he travelled in south direction & reached at his lab in2 hrs. Then what is the color of the bear?

a)white b)black c)gray d)brown

17)A lady has fine gloves and hats in her closet- 18 blue, 32 red, and 25 yellow. The lights are out and it is totally dark. In spite of the darkness, she can make out the difference between a hat and a glove. She takes out an item out of the closet only if she is sure that if it is a glove. How many gloves must she take out to make sure she has a pair of each color?

a)50 b)8 c)60 d)42

18)The age of the two friends were in the ratio of 6:5.If the sum of their ages is 55.Then after how many years their ratio will become 8:7?

a)11 b)7 c)10 d)12

19)In T.Nagar the building were numbered from 1 to 100.Then how many 4’s will be present in the numbers?

a)18 b)19 c)20 d)21

20) It is dark in my bedroom and I want to get two socks of the same color from my drawer, which contains 24 red and 24 blue socks. How many socks do I have to take from the drawer to get at least two socks of the same color?

A) 2 b) 3 c) 48 d) 25

21)In Tnagar many buildings were under residential category.for buildings they number as 1 to 100. For shops, corporation numbered between 150 and 200 only prime numbers. how many time 6 will appear in building numbering?

a)18 b)19 c)20 d)21

22)In a school, for a student out of 100 he got 74 of average for 7 subjects and he got 79 marks in the 8th subject. what is the average of all the subject?

a)76.251 b)80.25 c)74.265 d)74.625

23) The IT giant Tirnop has recently crossed a head count of 150000 and earnings of $7 billion. As one of the forerunners in the technology front, Tirnop continues to lead the way in products and services in India. At Tirnop, all programmers are equal in every respect. They receive identical salaries ans also write code at the same rate.Suppose 12 such programmers take 12 minutes to write 12 lines of code in total. How many lines of code they can type with 72 programmers in72 minutes total?

a) 12 b)6 c)72 d)432

24) Amrith told to Anand in front of a Photo that “He is the son of my father’s son”.Find who is in the picture if amrith have no brothers and sisters.

a)Amrith himself b)Amrith’s Uncle c)Amrith’s Father d)Amrith’s son

25) 3 persons a,b,c were there A always says truth,B lies on Monday,tusday,& Wednesday.but C lies on thrusday,Friday & saturday .one day A said”that B & C said to A that” B said “yesterday way one of the days when I lies”,C said that”yesterday way one of the days when I lies too”.then which day was that?

a)Sunday b)Thursday c)Saturday d)Tuesday

This question paper and answers will be available at **www.computersciencestudents.com**

**ALL THE BEST**

ANSWERS FOR PLACEMENT TEST-1

**1)** a) 12

**2)** b)192

**3) d)**The 39th statement is true and the rest are false.

**4)** b) 0

**5)**  c)The first 26 statements are false and the rest are true

**6)** d)5/9

**7)** a)1/64

**8)** c)24 **9)** b)1

**10)** a)18

**11)** a)89

**12)** d)27

**13)** a)14.88

**14)** d)49

**15)** b) 4.8 mph

**16)** a)white

**17)** c)60

**18)** c)10

**19)** c)20

**20)** b) 3

**21 )** c)20

**22)** d)74.625

**23)** d)432

**24 )** a)Amrith himself

**25 )** b)Thursday