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Roll Number : n140912

Branch : EC

College : RGUKT-Nuzvid

Exam : RGUKTN MOCK TEST 2 - EC

Score : Under Review

1	A train is moving at a speed of 132 kmph. If the length of the train is 110 metres, how long will it take to cross a railway platform 165 metres long?
(A)	15
(B)	5
(C)	7.5
(D)	10
User Response	C correct
Marks Awarded	1

2	If a man goes 18 km downstream in 4 hours and return against the stream in 12 hours, then the speed of the stream in km/hr is
(A)	1
(B)	1.5
(C)	1.75
(D)	3
User Response	C incorrect
Marks Awarded	0

3	A boat having a length and breadth 2m is floating on a lake. The boat sinks by 1 cm when a man gets on it. The mass of man is:
(A)	12 kg
(B)	60 kg
(C)	72 kg

(D)	96 kg
User Response	C incorrect
Marks Awarded	0

4	If $\log_{10} 125 + \log_{10} 8 = x$, then x is
(A)	3
(B)	$\frac{1}{3}$
(C)	.064
(D)	-3
User Response	D incorrect
Marks Awarded	0

5	$\frac{3}{4} : \frac{1}{2} :: 27y : ?$
(A)	21y
(B)	24y
(C)	12y
(D)	18y
(E)	None of these
User Response	C incorrect
Marks Awarded	0

6	<p>What is the two digit number?</p> <p>I. The sum of the two digits of the number is 13.</p> <p>II. The number obtained by interchanging the two digits of the number is smaller than the original number by 45.</p>
(A)	If the data in statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question
(B)	If the data either in Statement I or in Statement II alone are sufficient to answer the question
(C)	If the data even in both Statements I and II together are not sufficient to answer the question

(D)	If the data in statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question
(E)	If the data in both statements I and II together are necessary to answer the question
User Response	A incorrect
Marks Awarded	0

7	Rs.600 are divided among A,B,C so that Rs.40 more than $\frac{2}{5}$ of A's share, Rs.20 more than $\frac{2}{7}$ of B's share and Rs.10 more than $\frac{9}{17}$ of C's share may all be equal. What is A's share?
(A)	Rs.170
(B)	Rs.200
(C)	Rs.280
(D)	Rs.150
User Response	A incorrect
Marks Awarded	0

8	Of four numbers whose average is 60, the first is one-fourth of the sum of the last three. The first number is
(A)	45
(B)	48
(C)	15
(D)	42
User Response	- incorrect
Marks Awarded	0

9	If $a : b : c = 2:3:4$ and $2a-3b+4c=33$, then the value of c is
(A)	6
(B)	9
(C)	12
(D)	$\frac{66}{7}$

User	B	incorrect
Response		
Marks	0	
Awarded		

10	The average weight of 21 boys was recorded as 64 kg. If the weight of the teacher was added, the average increased by 1 kg. What was the teacher's weight?	
(A)	86	
(B)	55	
(C)	64	
(D)	68	
User	C	incorrect
Response		
Marks	0	
Awarded		

11	In what time will a train 100 meters long cross an electric pole, if its speed be 144 kmph?
(A)	4.25 seconds
(B)	5 seconds
(C)	12.5 seconds
(D)	2.5 seconds
User	C incorrect
Response	
Marks	0
Awarded	

12	How much is four fifths of the number? I. Three-fourth of the number is 2.5 less than its four fifths II. Half of the number added to it is 75.
(A)	If the data either in Statement I or in Statement II alone are sufficient to answer the question
(B)	If the data even in both Statements I and II together are not sufficient to answer the question
(C)	If the data in statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question
(D)	If the data in statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question
(E)	If the data in both statements I and II together are necessary to answer the question

User	A	correct
Response		
Marks	1	
Awarded		

13	The height of a closed cylinder of given volume and the minimum surface area is:
(A)	equal to its diameter
(B)	half of its diameter
(C)	double of its diameter
(D)	none of these

User	C	correct
Response		
Marks	1	
Awarded		

14	The speed of a car increases by 2 kms after every one hour. If the distance travelled in the first one hour was 35 kms, what was the total distance travelled in 12 hours?
(A)	482 kms
(B)	552 kms
(C)	556 kms
(D)	456 kms
(E)	None of these

User	D	incorrect
Response		
Marks	0	
Awarded		

15	The curved surface area of a cylindrical pillar is 264 m^2 and its volume is 924 m^3 . Find the ratio of its diameter to its height.
(A)	3:7
(B)	7:3
(C)	6:7
(D)	7:6

User	C	incorrect
Response		

Marks	0
Awarded	

16	A taperecorder is sold for Rs.3500 cash, or Rs.1000 cash down payment and the balance in three equal easy installments. If $12\frac{1}{2}\%$ is the rate of interest compounded annually, find the amount of installment.
(A)	Rs.1000.35
(B)	Rs.1049.83
(C)	Rs.1050.65
(D)	Rs.1100.43
User Response	B correct
Marks	1
Awarded	

17	$\frac{19^{12} \cdot 19^8}{19^4} = ((19)^{?})$
(A)	12
(B)	24
(C)	6
(D)	8
(E)	none of these
User Response	C incorrect
Marks	0
Awarded	

18	The capacity of a cylindrical tank is 246.4 liters. If the height is 4 metres, what is the diameter of the base?
(A)	2.8 m
(B)	14 m
(C)	none of these
(D)	1.4 m
User Response	B incorrect
Marks Awarded	0

19	How many times are the hour hand and the minute hand of a clock at right angles during their motion from 1.00 p.m. to 10.00 p.m.?
(A)	18
(B)	20
(C)	9
(D)	10
User Response	A correct
Marks Awarded	1

20	In the equation $\frac{4050}{\sqrt{x}} = 450$, the value of x is
(A)	9
(B)	49
(C)	81
(D)	100
User Response	C correct
Marks Awarded	1

21	A speaks truth in 75% cases and B in 80% of cases. In what percentage of cases are they likely to contradict each other, narrating the same incident?
(A)	45%

(B)	5%
(C)	15%
(D)	35%
User Response	D correct
Marks Awarded	1

22	Mr. Thomas invested an amount of Rs. 13900 divided in two different schemes A and B at the simple interest rate of 14% p.a. and 11% p.a. respectively. If the total amount of simple interest earned in 2 years be Rs. 3508, what was the amount invested in Scheme B?
(A)	Rs. 7200
(B)	Rs. 7500
(C)	Rs. 6400
(D)	Rs. 6500
(E)	None of these
User Response	B incorrect
Marks Awarded	0

23	A committee of 5 members is to be formed by selecting out of 4 men and 5 women. In how many different ways the committee can be formed if it should have at least 1 man?
(A)	115
(B)	120
(C)	125
(D)	140
(E)	None of these
User Response	E incorrect
Marks Awarded	0

24	35 kg of type A sandal powder, which costs Rs.614 per kg, was mixed with a certain amount of type B sandal powder, which costs Rs.695 per kg. Then the mixture was sold at the rate of Rs.767 per kg and 18% profit was earned. What was the amount of type B sandal powder in the mixture?
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(A)	32
(B)	36
(C)	24
(D)	28
User Response	B incorrect
Marks Awarded	0

25	In 2001 what was the approximate percentage of profit/loss of all the five Companies taken together?
(A)	6.5% profit
(B)	4% loss
(C)	7% loss
(D)	5% profit
User Response	A incorrect
Marks Awarded	0

26	The L.C.M. of $\frac{3}{4}$, $\frac{6}{7}$, $\frac{9}{8}$ is
(A)	3
(B)	6
(C)	9
(D)	18
User Response	C incorrect
Marks Awarded	0

27	A can complete $\frac{1}{3}$ of a work in 5 days and B, $\frac{2}{5}$ of the work in 10 days. In how many days both A and B together can complete the work?
(A)	$8\frac{4}{5}$
(B)	$9\frac{3}{8}$
(C)	10
(D)	$7\frac{1}{2}$

User	A	incorrect
Response		
Marks	0	
Awarded		

28	At what rate of compound interest per annum will a sum of Rs.1200 become Rs.1348,32 in 2 years?
(A)	7%
(B)	6%
(C)	7.5%
(D)	6.5%
User Response	D incorrect
Marks Awarded	0

29	How long will it take for a jeep to travel a distance of 250 km? I. The relative speed of the jeep with respect to the car moving in the same direction at 40 kmph is 50 kmph. II. The car started at 3.00 a.m. in the morning.
(A)	If the data in statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question
(B)	If the data either in Statement I or in Statement II alone are sufficient to answer the question
(C)	If the data even in both Statements I and II together are not sufficient to answer the question
(D)	If the data in statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question
(E)	If the data in both statements I and II together are necessary to answer the question
User Response	E incorrect
Marks Awarded	0

30	How much profit did Manick earn on the cost price of an article by selling it? I. He got 15% discount on the marked price at the time of purchase. II. He sold it for Rs. 3060 III. He earned 2% profit on the marked price.
(A)	All I, II and III
(B)	I and II

(C)	II and III
(D)	I only or II and III together
(E)	Even I, II and III together are not sufficient to answer the question
User Response	D incorrect
Marks Awarded	0

31	Evaluate $515.15 - 15.51 - 1.51 - 5.11 - 1.11$
(A)	482.91
(B)	491.91
(C)	490.91
(D)	497.91
User Response	C incorrect
Marks Awarded	0

32	Let the least number of six digit, which when divided by 4, 6 10 and 15, leaves in each case the same remainder of 2, be N. The sum of the digits in N is
(A)	4
(B)	5
(C)	6
(D)	3
User Response	A incorrect
Marks Awarded	0

33	The difference between simple and compound interest on Rs. 1200 for one year at 10% per annum reckoned half-yearly is:
(A)	Rs. 3
(B)	Rs. 3.75
(C)	Rs. 4
(D)	Rs. 2.50

(E)	None of these
User	B incorrect
Response	
Marks	0
Awarded	

34	Which of the following has fractions in ascending order?
(A)	$\frac{2}{5}, \frac{3}{5}, \frac{1}{3}, \frac{4}{7}, \frac{5}{6}, \frac{6}{7}$
(B)	$\frac{1}{3}, \frac{2}{5}, \frac{4}{7}, \frac{3}{5}, \frac{5}{6}, \frac{6}{7}$
(C)	$\frac{1}{3}, \frac{2}{5}, \frac{3}{5}, \frac{4}{7}, \frac{5}{6}, \frac{6}{7}$
(D)	$\frac{1}{3}, \frac{2}{5}, \frac{3}{5}, \frac{5}{6}, \frac{4}{7}, \frac{6}{7}$
User	A incorrect
Response	
Marks	0
Awarded	

35	What was the day of the week on 15 August, 1947?
(A)	Saturday
(B)	Friday
(C)	Thursday
(D)	Wednesday
User	B correct
Response	
Marks	1
Awarded	

36	0.15% of $\frac{1}{3}$ of Rs. 10,000 is
(A)	Re. 0.05
(B)	Rs. 5
(C)	Rs. 105
(D)	Rs. 150
User	C incorrect
Response	
Marks	0
Awarded	

37	The number $(6n^2) + 6n$ for natural number n is always divisible by
(A)	12
(B)	18
(C)	6
(D)	6 and 12
User Response	B incorrect
Marks Awarded	0

38	Two trains 200 metres and 150 metres long are running on parallel rails in the same direction at speeds of 40 km/hr and 45 km/hr respectively. Time taken by the faster train to cross the slower train will be
(A)	252 seconds
(B)	72 seconds
(C)	132 seconds
(D)	192 seconds
User Response	C incorrect
Marks Awarded	0

39	Running at the same constant rate, 6 identical machines can produce a total of 180 bottles per hour. How many bottles could 15 such machines produce in 30 minutes?
(A)	250
(B)	300
(C)	350
(D)	225
User Response	A incorrect
Marks Awarded	0

40	During the period 1995-2000, the minimum rate of increase in sales is in the case of:
(A)	Lipstick

(B)	Nail enamels
(C)	Talcum powder
(D)	Shampoos
User	B incorrect
Response	
Marks	0
Awarded	

41	The ratio of two numbers is 3:4 and their LCM is 120. The sum of numbers is
(A)	140
(B)	35
(C)	105
(D)	70
User	A incorrect
Response	
Marks	0
Awarded	

42	The value of $\frac{1}{(216)^{-\frac{2}{3}}} + \frac{1}{(256)^{-\frac{3}{4}}} + \frac{1}{(32)^{-\frac{1}{5}}}$ is:
(A)	102
(B)	105
(C)	107
(D)	109
User	C incorrect
Response	
Marks	0
Awarded	

43	A boy read $\frac{3}{8}$ th of a book on one day and $\frac{4}{5}$ th of the remainder on another day. If there were 30 pages unread, how many pages did the book contain?
(A)	none of these
(B)	240
(C)	300
(D)	600

User	- incorrect
Response	
Marks	0
Awarded	

44	For a certain month, the dates of three of the Sundays are even numbers. Then, the 15th of that month falls on a
(A)	Sunday
(B)	Thursday
(C)	Friday
(D)	Saturday
User	C incorrect
Response	
Marks	0
Awarded	

45	A box contains 5 green, 4 yellow and 3 white marbles. Three marbles are drawn at random. What is the probability that they are not of the same colour?
(A)	$\left(\frac{41}{44}\right)$
(B)	$\left(\frac{3}{44}\right)$
(C)	$\left(\frac{3}{55}\right)$
(D)	$\left(\frac{52}{55}\right)$
User	B incorrect
Response	
Marks	0
Awarded	

46	How many times in a day, are the hands of a clock in straight line but opposite in direction?
(A)	48
(B)	20
(C)	22
(D)	24
User Response	A incorrect
Marks Awarded	0

47	The height of a closed cylinder of given volume and the minimum surface area is:
(A)	equal to its diameter
(B)	half of its diameter
(C)	double of its diameter
(D)	none of these
User Response	C incorrect
Marks Awarded	0

48	What is the overall percentage of marks obtained by Sangeeta in all five subjects? I. Sangeeta scored 75% marks in Maths and Science together. II. Her aggregate marks in History and Science are 72% III. She has scored 85% marks in Sanskrit.
(A)	I and either II or III
(B)	III and either I or II
(C)	Any two of the three
(D)	All I, II and III
(E)	Question cannot be answered even with the information in all three statements.
User Response	D incorrect
Marks Awarded	0

49	Of four numbers whose average is 60, the first is one-fourth of the sum of the last three. The first number is
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(A)	45
(B)	48
(C)	15
(D)	42
User Response	A incorrect
Marks Awarded	0

50	How many of the integers between 110 and 120 are prime numbers?
(A)	3
(B)	0
(C)	1
(D)	2
(E)	4
User Response	C correct
Marks Awarded	1

51	A milkman mixed some water with milk to gain 25% by selling the mixture at the cost price. The ratio of water and milk is respectively.
(A)	1 : 4
(B)	5 : 4
(C)	4 : 5
(D)	1 : 5
User Response	A correct
Marks Awarded	1

52	The least number of complete years in which a sum of money put out at 20% compound interest will be more than double is:
(A)	3
(B)	4

(C)	5
(D)	6
User Response	C incorrect
Marks Awarded	0

53	ABC is a triangle with base AB. D is a point on AB such that $AB=5$ and $DB = 3$. What is the ratio of the area of $\triangle ADC$ to the area of $\triangle ABC$?
(A)	2:3
(B)	3:2
(C)	2:5
(D)	3:5
User Response	A incorrect
Marks Awarded	0

54	The simple interest accrued on a certain principal in 5 years at the rate of 12 p.c.p.a is Rs.1536. What amount of simple interest would one get if one invests Rs.1000 more than the previous principal for 2 years and at the same rate p.c.p.a?
(A)	Rs.845.40
(B)	Rs.1536
(C)	Rs.2136
(D)	Rs.614.40
User Response	C incorrect
Marks Awarded	0

55	The sum of three numbers is 98. If the ratio of the first to the second is 2:3 and that of the second to the third is 5:8, then the second number is:
(A)	58
(B)	20
(C)	30
(D)	48

User	C	correct
Response		
Marks	1	
Awarded		

56	The curved surface area of a cylindrical pillar is 264 m ² and its volume is 924 m ³ . Find the ratio of its diameter to its height.	
(A)	3:7	
(B)	7:3	
(C)	6:7	
(D)	7:6	
User	D	incorrect
Response		
Marks	0	
Awarded		

57	The square root of $\sqrt{\frac{(0.75)^3}{1-0.75}} + 0.75 + \sqrt{(0.75)^2} + 1$ is	
(A)	1	
(B)	2	
(C)	3	
(D)	4	
User	A	incorrect
Response		
Marks	0	
Awarded		

58	Prateek sold a music system to Kartik at 20% gain and Kartik sold it to Swastik at 40% gain. If Swastik paid Rs.10500 for the music system, what amount did Prateek pay for the same?	
(A)	Rs.7500	
(B)	Rs.8240	
(C)	Cannot be determined	
(D)	Rs.6250	
(E)	None of these	
User	C	incorrect
Response		

Marks

0

Awarded

59

Five litres of water is added to a certain quantity of pure milk costing Rs.3 per litre. If by selling the mixture at the same price as before, a profit of 20% is made, then what is the amount of pure milk in the mixture?

(A) 30 litres

(B) 35 litres

(C) 20 litres

(D) 25 litres

User

D **correct**

Response

Marks

1

Awarded

60

What is the speed of the boat in still water?

I. It takes 2 hours to cover the distance between A and B downstream

II. It takes 4 hours to cover the distance between A and B upstream.

(A) If the data in statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question

(B) If the data in statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question

(C) If the data either in Statement I or in Statement II alone are sufficient to answer the question

(D) If the data even in both Statements I and II together are not sufficient to answer the question

(E) If the data in both Statement I and II together are necessary to answer the question

User

E **incorrect**

Response

Marks

0

Awarded

61

A vessel has three pipes connected to it, two to supply liquid and one to draw liquid. The first alone can fill the vessel in $4\frac{1}{2}$ hours, the second in 3 hours and the third can empty it in $1\frac{1}{2}$ hours. If all the pipes are opened simultaneously when the vessel is half full, how soon will it be emptied?

(A) $5\frac{1}{2}$ hours(B) $6\frac{1}{2}$ hours

(C) None of these

(D)	$4\left(\frac{1}{2}\right)$ hours
User Response	A incorrect
Marks Awarded	0

62	The owner of a furniture shop charges his customer 28% more than the cost price. If a customer paid Rs.23680 for a dining table set, then what was the original price of the dining set?
(A)	Rs.18500
(B)	Rs.15700
(C)	Rs.16250
(D)	Rs.17500
(E)	None of these
User Response	- incorrect
Marks Awarded	0

63	A sum of money amounts to Rs.5200 in 5 years and to Rs.5680 in 7 years at simple interest. The rate of interest per annum is:
(A)	3%
(B)	4%
(C)	5%
(D)	6%
User Response	B incorrect
Marks Awarded	0

64	Explain about acceleration.
User Response	-
Marks Awarded	0

65	Explain about recurrence relation.
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User	-
Response	
Marks	0
Awarded	

66	Explain black hole.
User	-
Response	
Marks	0
Awarded	

67	Explain about OOP in java.
User	-
Response	
Marks	0
Awarded	

68	Explain electric current.
User	-
Response	
Marks	0
Awarded	

69	Explain about inheritance.
User	-
Response	
Marks	0
Awarded	

70	Explain about indirect mapping.
User	-
Response	
Marks	0
Awarded	

71	Explain magentism.
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User	-
Response	
Marks	0
Awarded	

72	Explain about newman logic
User	-
Response	
Marks	0
Awarded	

73	Explain about method overloading in java.
User	-
Response	
Marks	0
Awarded	