Insurance Exam Papers - Mock Question Bank for Quant

Q1. A letter is randomly taken from English alphabets. What is the probability that the letter selected is not a vowel?

A. 21/26

B. 5/26

C. 7/26

D. 11/26

E. None of these

Q2. **The average of Shreya's marks in six subj**ects is 36.5. If the average of her marks in five 23 subjects excluding mathematics is 39, how much did she score in mathematics?

A. 25

B. 24

C. 29

D. 31

Q3. 5 men and 7 women can earn Rs. 6440 in 7 days. 15 men and 17 women can earn Rs. 20160 in 8 days. In what time, will 21 men and 29 women earn Rs. 65280?

A. 15 days

B. 16 days

C. 17 days

D. 18 days

E. None of these

Q4. P and Q are two natural numbers. 25% of P is 14 more than 10% of Q. Also, 10% of P is 20 less than 20% of Q. What is the product of P and Q?

A. 18000

B. 19200

C. 18880

D. 17400

E. 16800

Q5. What will Rs. 18750 be worth after four years if it earns interest at the rate of 20% compounded annually?

A. Rs. 38880

B. Rs. 36640

C. Rs. 42420

D. Rs. 28260

E. None of these

Q6. To make the ratio of milk and water in a mixture 3:7, 5 liters of milk is to be added. And to make the ratio 1:4, 5 liters of water is to be added. Find the ratio of milk and water in original mixture.

A. 2:7

B. 1:3

C. 2:5

D. 3:11

E. 4:3

Q7. Cars C_1 and C_2 travel to a place at a speed of 31 km/hr and 47 km/hr respectively. If car C_2 takes 2 ½ hours less time than C_1 for the journey, the distance to the place is

A. 300 km

B. 230.99 km

C. 220.43 km

D. 227.65 km

E. None of these

Q8. If two balls are to be randomly selected, what is the probability that both are black?

A. 3/29

B. 6/37

C. 5/33

D. 13/47

E. None of these

Q9. The number that must be subtracted from each term of the ratio 15 : 17 to make it equal to the ratio 5 : 6 is :

A. 2

B. 5

C. 4

D. 3

E. None of these

Q10. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

4 , 2 , -2 , -10 , -26 , ?

A. -13

B. -25

C. -46

D. -58

Q11. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

499, 721 , 485 , 279 , 91 , ?

A. -13
B. -91
C. -74
D. -56

Q12. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

1, 2 , 10 ,19 , 83 , ?

A. -13
B. 65
C. -74
D. 108

Q13. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. 100 , 101 ,98 ,103 , 96 , 105 , ?

A. 73
B. 41
C. 94
D. 56

Q14. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. 1, 26 , 151 , ?

A. 332

B. 776

C. 976

D. 566

Q15. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

9 , 17 , 32 , 61 , ?

A. 175

B. 142

C. 118

D. 156

Q16. In the following question two equations are given. You have to solve these equations and determine relation between x and y.

I. $x^2 - 5x - 104 = 0$

II. $y^2 - 29y + 204 = 0$

A. x< y

B. x> y

C. x = y OR the relationship cannot be determined

D. **x ≥ y**

E. **x ≤ y**

Q17. In the following question two equations are given. You have to solve these equations and determine the relation between a and b.

I. $a^2 - 22a - 48 = 0$

II. $b^2 - 37b + 312 = 0$

A. a<b
B. a>b
C. a=b OR the relationship cannot be determined
D. **a≤b**
E. **a≥b**

Q18. In the following question two equations are given. You have to solve these equations and determine relation between a and b.

I. $a^2 + 7a - 294 = 0$

II. $b^2 + 45b + 504 = 0$

A. a< b
B. a> b
C. a = b OR the relationship cannot be determined
D. **a ≥ b**
E. **a ≤ b**

Q19. n the following question two equations are given. You have to solve these equations and determine relation between x and y.

I. $5x^2 - 63x - 98 = 0$

II. $y^2 + 23y + 76 = 0$

A. x< y
B. x> y

C. x = y OR the relationship cannot be determined

D. $x \geq y$

E. $x \leq y$

Q20. In the following question two equations are given. You have to solve these equations and determine relation between x and y.

I. $x^2 - 31x - 140 = 0$

II. $y^2 + 36y + 128 = 0$

A. x< y

B. x> y

C. x = y OR the relationship cannot be determined

D. $x \geq y$

E. $x \leq y$

Q21. In a class, the average score of girls in an examination is 70 and that of boys is 73. The average score for the whole class is 71.8. The percentage of the girls in the class is

A. 60%

B. 40%

C. 70%

D. 68%

E. 54%

Q22. Six friends have an average height of 167 cm. Penshu with height 162 cm leaves. What is the new average height?

A. 166 cm

B. 167 cm

C. 168 cm

D. 169 cm

Q23. The C.P. of an article is 50% of the S.P. The percent that the S.P. is of C.P. is

A. 25%
B. 20%
C. 250%
D. 200%
E. 15%

Q24. In an examination, a student has to answer 15 questions out of 20 questions, out of which the first 8 questions are compulsory. In how many different ways, the student can choose the questions?

A. 12_{C7}
B. 20_{C15}
C. 15_{C8}
D. 20_{C8}
E. 12_{C8}

Q25. Question given below is followed by two statements
Total marks obtained by P, Q, R and S in Science is 480. How many marks did S secure in Science?

I) P secured one-third marks of the total of Q, R and S
II) Average marks obtained by Q and R is 12 more than that secured by S

A. if statement I alone is sufficient to answer the question.
B. (b) if statement II alone is sufficient to answer the question.
C. (c) if both statements I and II together are necessary to answer the question.
D. (d) if both statements 1 and II together are not sufficient to answer the question.

E. (e) if either statement I or II alone is sufficient to answer the question.

Q26. Anthony started from home for office at 8 a.m. and started walking with a speed of (0.75 × S), where S is his normal speed he reached office 20 minutes. Find the time at which he would have reached if he would have walked with usual speed.

A. 8:45 a.m.
B. 9:00 a.m.
C. 9:15 a.m.
D. 9:20 a.m.
E. 9:30 a.m.

Q27. If Ajit can do 1/4 of work in 3 days and Sujit can do 1/6 of the same work in 4 days, how much is total paid amount if both work together and Ajit is paid Rs. 120 in all?

A. Rs. 60
B. Rs. 180
C. Rs. 120
D. Rs. 150
E. Rs. 90

Q28. The number of candidates scoring less than 30% marks in aggregate is:

A. 21
B. 27
C. 24
D. 78
E. None of these

Q29. If at least 57% marks are required in technical part for passing the written test, then how many candidates have passed and are eligible for further rounds?

A. a)17

B. b) 40

C. c) 26

D. d) 27

E. e) None of these

Q30. What is the difference between the required number of candidates passed with 30 as cut off in technical part and 30 as cutoff in aggregate?

A. 4

B. 8

C. 18

D. 0

E. None of these

Q31. The percentage of candidates getting at least 57 % marks in aptitude over those getting at least 30% marks in aggregate is approx.?

A. 24

B. 35

C. 37

D. 45

E. None of these

Q32. If it is known that at least 18 students were eligible for passing the written test based on technical, the minimum qualifying marks in technical for eligibility to pass would lie in the range:

A. 50 - 60

B. 40 - 60

C. 30 - 40

D. 20 – 30

E. None of these

Q33. What is the respective ratio of girls in Mechanical and Civil Engineering to the girls in Computer Sciences and Information Technology?

A. 21 : 74

B. 25 : 83

C. 21 : 75

D. 21 : 83

E. None of these

Q34. The total number of Mechanical engineering students are approximately, what per cent of the total number of Computer Science Students in the college?

A. 95

B. 98

C. 99

D. 85

E. 91

Q35. What is the difference between the total number of boys and girls in the college?

A. 2684

B. 2) 668

C. 3) 654

D. 4) 664

E. 5) None of these

Q36. Girls in electronics are what per cent of the boys in mechanical engineering in the college?

A. 22%

B. 28%

C. 25%

D. 32%

E. None of these

Q37. What is the respective ratio of the number of girls in information technology to the number of girls in Industrial production in the college?

A. 45 : 14

B. 43 : 14

C. 45 : 11

D. 12 : 13

E. None of these

Q38. A town has 700 women, 1700 men and 1100 children. What % of population are men? There are no eunuchs in town.

A. 5%

B. 10%

C. 12%

D. 24%

E. None of these

Q39. Adrian travels 952 km in 17 hrs in two stages. In the first part of the journey, he travels by bus at the speed of 48 km per hr. In the second part of the journey, he travels by car at the speed of 64 km per hr. How much distance does he travel by car?

A. 565 km

B. 545 km

C. 505 km

D. 485 km

E. None of these

Q40. P is 23% of Q. Q is 67% of R. R is a natural number. What should be the minimum value of R so that 3P is a natural number?

A. 5000
B. 8000
C. 10000
D. 12500
E. 16225

P is 23% of Q. Q is 67% of R.

⇒ P = 0.23Q and Q = 0.67R

⇒ P = 0.1541R

⇒ 3P = 0.4623R

R does not have any factor of 2 or 5.

For 3P to be natural number, R should be at least 10000.

Directions: In the following pie-chart percent of students enrolled in different cultural activities of a school has been shown. You are required to study the pie-chart carefully and answer the questions given below.
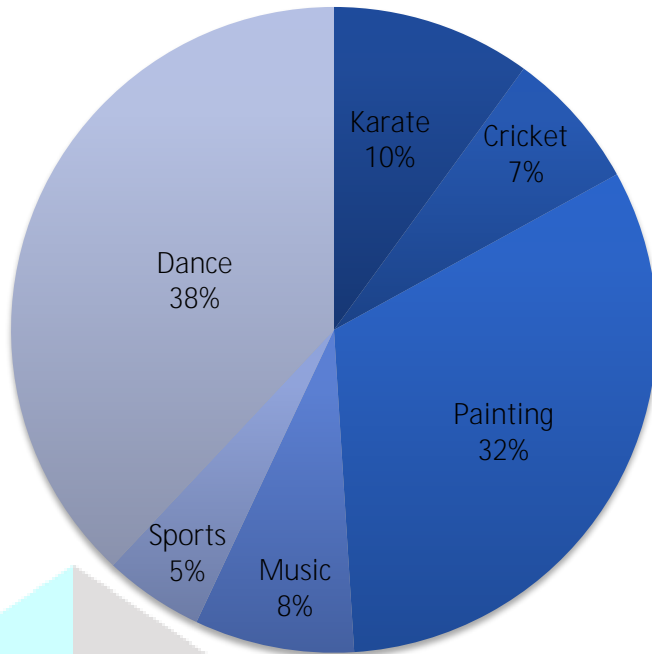
Number of Students = 1800

Q41. What is the number of students who opted for dancing?

A. 648

B. 684

C. 864

D. 664

E. None of these

Q42. What is the respective ratio between the number of students who opted for painting and that who opted for Music?

A. 3 : 7

B. 5 : 16

C. 16 : 5

D. 5 : 7

E. None of these

Q43. By what percent is the number of candidates who opted for Karate more than those who opted for sports?

A. 30

B. 55

C. 45

D. 100

E. None of these

Q44. How many students have opted for cricket and painting together?

A. 702

B. 602

C. 660

D. 645

E. None of these

Q45. By what percent is the number of students who opted for cricket and dancing together more than those who opted for painting and music together?

A. 14.5

B. 12.5

C. 16.5

D. 21.5

E. None of these

Q46. If the expenditure of D on food was 20% more than the average expenditure of all the six persons on food, then the average monthly expenditure on food for the given persons is

A) Rs. 5133

B) Rs. 5000

C) Rs. 5250

D) Rs. 5400

E) Rs. 7200

Q47. What is the total expenditure of D on rent, education and telephone and electricity bills?

A) Rs. 12300

B) Rs. 15600

C) Rs. 16500

D) Rs. 18200

E) Rs. 10300

Total expenditure of D = Rs. 30000

% expenditure on rent, education and telephone and electricity bills = 41% of 30000 = 12300

Q48. If B and F spent respectively 10% and 15% of their expenses on clothes, then by what percentage was the expenses of F on clothes more than that of B?

A) 63.33%

B) 66.67%

C) 71.4%

D) 75.6%

E) 85.78%

Q49. If the monthly expenses on fuel for all the six persons is the same, then for how many persons was the expenses on fuel more than 5% of their total monthly expenses?

A) 1

B) 2

C) 3

D) 4

E) 0

Q50. **If the expenditure on 'others' for A was 10% more than that for D, then what percentage of the monthly expenses of A was spent on 'others'?**

A) 30.25%

B) 33.33%

C) 37.5%

D) 40.0%

E) 25%

Q51. A batsman makes a scores of 120 runs in his 18th inning and thus increases his average by 5. What is his average after 18th inning?

A. 32

B. 34

C. 35

D. 36

E. None of the above

Q52. A die is thrown once. Find the probability of getting an even number.

A. ½

B. 2/3

C. 2/5

D. 1/3

Q53. If a natural number P is increased by 39%, then we get 182 more than five times quarter of P. Find the remainder when P is divided by 7.

A. 3
B. 4
C. 5
D. 6
E. 0

Q54. The speed of a stream is one third of the upstream speed of the boat. When travelling downstream, the boat covers 46.5 km in three hours. What is the speed of boat in still water (in km/hr)?

A. 10.2

B. 12.4

C. 13.6

D. 14.4

E. 15

Q55. What was the average highest mark of the five subjects in 2008?

A. 77
B. 84
C. 90
D. 88
E. None of these

Q56. The difference in the highest marks in Geography between 2006 and 2009 was exactly equal to the difference in the average marks in English between which of the following pairs of years?

A. 2006 and 2008
B. 2004 and 2005
C. 2007 and 2009
D. 2008 and 2009
E. None of these

Q57. What was the approximate percentage increase in highest marks in Bengali from 2004 to 2005?

A. 20
B. 15
C. 6
D. 9
E. 12

Q58. The average highest marks in Math in 2004, 2005 and 2006 was exactly equal to the highest marks in Science in which of the following years?

A. 2004

B. 2005

C. 2006

D. 2007

E. 2009

Q59. A jar full of whisky contains 40% if alcohol. A part of this whisky is replaced by another containing 19% alcohol and now the percentage of alcohol was found to be 37. The quantity of whisky replaced is

A. 1/7

B. 1/3

C. 2/3

D. 2/9

E. e)None of the above

Q60. Harry has two bags, each of which he bought at Rs. 1300. He sold one of them at 20% profit and second at N% loss. The overall profit he earned was 7%. Find the value of N.

A. 5

B. 6

C. 7

D. 8

E. 9

Q61. What is the ratio of budget allocated to defense and sports together to the budget allocated to health and food together?

A) 3 : 2

B) 5 : 4

C) 3 : 4

D) 4 : 5

E) None of these

Q62. By what % should the total budget be increased such that the current budget allocated to education is equal in amount to the new budget allocated to social security?

A) 25%

B) 30.25%

C) 33.33%

D) 35%

E) 36.67%

Q63. Which is higher,

 a) Difference between defense budget and sum of budgets allocated to social security and sports taken together
 b) Difference between budget allocated to health and budget allocated to food and agriculture

A) a > b

B) a < b

C) a ≥ b

D) a = b

E) Cannot be determined

Q64. The budget for research has to be introduced in the next budget. The budget for research is 114 billion rupees and the % increase in total budget is 20%. What is the increase in budget for education if the % of budget allocated to different sectors except research remained in proportion with that of the previous case.

A) 45.68 billion rupees

B) 42.56 billion rupees

C) 36.67 billion rupees

D) 35.5 billion rupees

E) 46.2 billion rupees

Q65. Find the % by which budget allocated for social security is less than the budget allocated for education.

A) 24.33%

B) 22%

C) 26.67%

D) 25%

E) 33.33%

% of budget allocated to social security = 12%

% of budget allocated to education = 16%

% by which budget allocated for social security is less than the budget allocated for education

$$= (16 - 12)/16 \times 100\%$$

= 25%

Q66. What is the difference between sum of budgets allocated to defense and sports and sum of budgets allocated to health and social security?

A) 42 billion

B) 66 billion

C) 76 billion

D) 95 billion

E) None of these

Q67. Nancy works from Monday to Saturday in a week. She works for 1 hour on Monday, 2 hours on Tuesday, 3 hours on Wednesday and so on. Her wages for Friday are Rs. 4000. How much does she earn in total in a week? (In Rs.)

A. 16000
B. 16400
C. 16800
D. 17200
E. 18000

Q68. Danny works for 3 hours and received a wage of Rs. 900. If Gary works with Danny, they can finish the work in 1 hour and 20 minutes. What would be the share of Danny in that case?(in Rs.)

A. 300
B. 360
C. 400
D. 480
E. 450

Q69. The number that must be subtracted from each term of the ratio 15 : 17 to make it equal to the ratio 5 : 6 is :

A. 2
B. 5
C. 4
D. 3
E. None of these

Q70. A shopkeeper sells a T-shirt at discount rate. Find the single discount which is equal to successive discounts of 20% and 15% given by a shopkeeper on T-shirt?

A. 25 %
B. 32 %
C. 30 %
D. 35 %
E. None of these

Q71. A batsman makes a score of 75 runs in the 15th innings and thus increases his average by 3. Find his average after 15th inning.

A. 36
B. 39
C. 33
D. 35
E. None of the above

Q72. A car owner buys petrol at Rs. 8.00, Rs. 10.00 and Rs. 12.50 per litre for three successive years. What approximately is his average cost per litre of petrol if he spends Rs. 5000 each year?

A. Rs. 10.57

B. Rs. 9

C. Rs. 9.83

D. Rs. 8.50

E. None of the above

Q73. In how many different ways can the letters of the word 'MISCELLANEOUS' be arranged so that the vowels always come together?

A. 100800

B. 453600

C. 120960

D. 129600

E. None of these

Q74. Find the positive value of x, where $(x + 3)$ is a mean proportion between $(x + 1)$ and $(2x + 3)$

A. 7

B. 5

C. 2

D. 3

E. None of these

Q75. The ratio of incomes of Shivani and Anita is 1:3 and ratio of their expenditure is 3:4. If the savings of both Shivani and Anita are equal, then what is the ratio between income and expenditure of shivani.

A. 1:4

B. 1:6

C. 2:3

D. 3:5

E. None of these

Q76. The total no. of people of both states affected by flood in 2006 is approximately what percent of that in 2010?

A. 76
B. 55
C. 82
D. 67
E. None of these

Q77. If the percentage of women affected were 40 and 27 in state A and B respectively in 2008, find the ratio of the no. of women affected by flood between state A and B.

A. 6 : 7
B. 8 : 7
C. 7 : 8
D. 5 : 6
E. None of these

Q78. In 2009, if the percentage of people rescued from the affected area were 65% and 76% in State A and B respectively, what is the total no. of people rescued in that year?

A. 41360
B. 40780
C. 42680
D. 40870
E. 47080
F.

Q79. The no. of people affected by flood in state A in 2008 is what percent of the average no. of people affected in state A over the given years?

A. 68

B. 88

C. 80

D. 74

E. None of these

Q80. If the percentage of women affected in State B in all years was 42, find the difference between no. of women and men affected.

A. 33440

B. 33260

C. 28440

D. 33380

E. 34340

Q81. What is the angle for the sector representing Editorial content developer?

A. 108°

B. 136°

C. 123½°

D. 145°

E. None of these

Q82. What should be the central angle of the sector representing transportation charges?

A. 4°

B. 8.4°

C. 12.4°

D. 14.4°

E. None of these

Q83. If the editorial content development cost is Rs. 30,000, then the cost on miscellaneous can be expected to be

A. Rs. 4,000
B. Rs. 400
C. Rs. 12,000
D. Rs. 2,000
E. None of these

Q84. For a given issue of the magazine, the Binding cost is Rs. 12000 and the print-run is 12500 copies. What should be the sale price per copy would have been:

A. Rs. 5
B. Rs. 7.50
C. Rs. 8
D. Rs. 8.40
E. None of these

Q85. If for the same data as given in the previous question, the print-run is 50000 copies. What should be the sale price per copy would have been:

A. Rs. 5
B. Rs. 7.50
C. Rs. 2
D. Rs. 8.40
E. None of these

Q86. If the promotional costs for a given issue of the magazine is Rs. 9,000 then the total expenditure in bringing out that issue of the magazine is :

A. Rs. 50,000

B. Rs. 1,00,000

C. Rs. 45,000

D. Rs. 60,000

E. None of these

Q87. For the same data as given in the previous question, what is the cost of editorial content development?

A. Rs. 45,000

B. Rs. 30,000

C. Rs. 15,000

D. Rs. 20,000

E. None of these

Q88. A cell phone can be purchased on cash payment of Rs 7500. The same phone can also be purchased by making a down payment of Rs 1750 and rest can be paid in three equal installments of Rs 2000 each for next three months. What is the rate of simple interest charged by the shopkeeper?

A. 29.2%

B. 24.12%

C. 23.32%

D. 26.67%

E. None of these

Q89. In the following number series, find out the missing number.
494 485 510 ? 438 269

A.   461

B.   546

C.   494

D. 559

E. 474

The pattern of given series is:

→ 498 - (2 x 2) = 494

→ 494 - (3 x 3) = 485

→ 485 + (5 x 5) = 510

→ 510 + (7 x 7) = 559*

→ 559 - (11 x 11) = 438

→ 438 - (13 x 13) = 269

So the missing number is 559.

(Note: Here, 2,3,5,7,11,13,17 are Prime Numbers)

Q90. In the following number series, find out the missing number.

   ?   810   1100   1452   1872

A.   546

B.   576

C.   494

D.   549

E.   474

Q91. If for a certain quantity of phones, the producer has to pay Rs. 10,000 as Transportation, then what will be amount of royalty to be paid for these books?

A. Rs. 11,450

B. Rs. 20,200

C. Rs. 150000

D. Rs. 116,150

E. None of these

Q92. The price of the phone is marked 40% above the C.P. If the marked price of the phone is Rs. 28000, then what is the cost of packaging for a single phone?

A. Rs. 4000

B. Rs. 3750

C. Rs. 4200

D. Rs. 4425

E. None of these

Q93. If 1000 copies are published and the transportation cost on them amounts to Rs. 100000, then what should be the selling price of the phone so that the producer can earn a profit of 30%?

A. Rs. 1850

B. Rs. 1300

C. Rs. 1075

D. Rs. 1080

E. None of these

Q94. If the total expenditure is Rs. 9000 , then which of the following has a difference of Rs 450?

A. Promotion and industrial cost

B. Industrial cost and transport

C. packaging and promotion

D. Transport and royalty

E. None of these

Q95. Industrial production cost on the phone is less than the material cost by:

A. 25%

B. 40%

C. 20%

D. $33\frac{1}{3}\%$

E. None of these

Q96. Two men were employed for the work of typing, john and jame. If john can do the work in 12 days, and jame can do it in 16 days. The total wages for the entire work is Rs. 9051. If they both finish the work together what is the share of jame?

A. 1)5045
B. 2)5146
C. 3)5172
D. 4)3879
E. 5)None of these

Q97. Some amount out of Rs.7000 was lent at 6% p.a. and the remaining at 5% p.a. If the total simple interest from both the fractions in 5 years was Rs.1900, the sum lent at 5% p.a. was

A. Rs.4000

B. Rs.5500

C. Rs.3500

D. Rs.4550

E. None of these

Q98. A salesman sells 8 energy drinks at a cost price of 10. The profit percent is

A. 22.5

B. 25

C. 25.5

D. 24.25

E. None of these

Q99. The cost price of 480 articles is equal to the selling price of 600 articles. The loss percent in the transaction is

A. 5

B. 20

C. 25

D. 30

E. None of these

Q100. By selling 78 metres of rope a person gains the cost price of 22 metres. Find the gain percent.

A. 28%

B. $28 \, ^8/_{39} \, \%$

C. 38 %

D. 30 1/3%

E. None of these

Model Answer Key with Solutions for Quant