Q1. The average of 19 numbers is 42. The average of the first 6 numbers is 38.5 and that of the last 14 numbers is 45.5. If the sixth number is excluded then what's the average of the remaining numbers?(Correct to one decimal Place)

A. 41.2
B. 41.6
C. 40.8
D. 40.4

Answer: Option D

Q2. A shopkeeper bought a lamp at Rs.1,200 and the ratio of its cost price and marked price was 3:5. It was sold after two successive discounts of 30% and 18% and incurred a loss or profit of x%. Find x.

A. 4 ⅔ profit
B. 4 ⅓ loss
C. 4 ⅔ loss
D. 4 ⅓ profit

Answer: Option B

Q3. The numbers 4121, 4973 and 6464 leave the same remainder x in each case when divided by the greatest number y. the value of (2y-x) is

A.152
B. 432
C. 336
D. 352

Answer: Option D

Q4. A divided money between two sons B and C. The amount received by B after 13 years is equal to the amount received by C in 15 years at the rate of 4% p.a. compound interest. The

difference between their shares is INR 102. Find the amount in total (in INR).

A. 2702
B. 2602
C. 1352
D. 1250

Answer: Option B

Q5. The number of ways of choosing (x+8) balls out of 36 balls is equal to choosing x balls out of 36 balls. Find the number of ways of choosing (x+5) balls out of 25 balls.

A. 1,741,00
B. 1,69,900
C. 1,77,100
D. 1,70,000

Answer: Option C

Q6. A fraction becomes 2 / 3 if 1 is added to its numerator and 2 is added to its denominator . If 2 is subtracted from the numerator and 5 is added to its denominator, the fraction becomes 1 / 4, If 3 is added to the numerator and 1 is subtracted from the denominator, then fraction becomes:

A. 3 / 4
B. 6 / 5
C. 4 / 3
D. 5 / 7

Answer: Option C

Qs 8 to 10: Study the given information and answer the question. In a company, there are 1,300 employees. The company has given departments: HR, Finance, Marketing, Administration and Manufacturing. Out of the total female employees in the

company, 32% work in the HR department, 20% in the Finance department and 18% in the Marketing department. The remaining 180 female employees work in the Administration department. There are no female employees in the Manufacturing department. Out of the total male employees in the company, 15% work in the HR department, 27% in Marketing, 25% in Finance, 20% in Administration. The remaining male employees work in the Manufacturing department.

Q8. What is the average number of employees (male and female) who work in the Marketing, Finance and Administration departments?
A. 312
B. 301
C. 308
D. 304
Answer: Option D

Q9. The total number of male employees working in the HR and Finance departments is what percentage of the total number of female employees working in the HR, Marketing and Administration departments (nearest integer)?
A. 60%
B. 54%
C. 56%
D. 58%
Answer: Option D

Q10. If the number of female employees in HR increases by 25%, the number of female employees in the Finance department increases by 15%, and 48 female employees leave the

Administration department, then what is the total number of female employees in the company will increase by:
A. 18
B. 16
C. 12
D. 15
Answer: Option A

Q11. If 17 male employees from the Marketing department are transferred to the Manufacturing department and 20 female employees from the Administration department are transferred to the HR department, then the number of employees in the Marketing department is what percentages less than the number of employees in the Administration department?
A. 8 ⅓%
B. 5 ½ %
C. 6 ⅔ %
D. 6 ¼ %
Answer: Option C

Q12. A certain sum was invested at 20% p.a. for a year such that the interest was compounded half yearly for the first year and compounded yearly for the next year. If get on the sum was Rs.10,170 then the sum (in Rs) was:
A. 25,000
B. 24,500
C. 24,000
D. 22,500
Answer: Option D

Q13. Arun borrowed a certain sum at the rate of 8% for the first three years, at the rate of 9 ½% p.a. for the next 4 years and at the

ratio of 15% for the period beyond 7 years. If he pays a total simple interest Rs.8,015 at the end of 10 ½% years, the sum (in Rs) was:
A. 7,000
B. 7,500
C. 7,200
D. 6,500
Answer: Option A

Q14. 15 men and 20 boys can complete a work in 15 days, 20 men and 35 boys can complete the same work in 10 days. Determine the efficiency of boys with respect to men.
A. 1.5 : 1
B. 2 : 1
C. 1 : 2
D. 1 : 1.5
Answer: Option C

Q15. A and B are coming from opposite directions. A starts at 10 a.m. towards B. B starts at 11 a.m. towards A. The speed of A and B are 40 km/hr and 50 km/hr, respectively. At what time will they meet each other, if A and B are 100 km apart?
A. 11.50 a.m.
B. 12.00 p.m.
C. 11.40 a.m.
D. 10.40 a.m.
Answer: Option C

Q16) A man has to travel 50 km in two hours. He could cover 20 km in one hour and then had to stop for 10 minutes for refueling. By what factor should he increase his speed with reference to that during the first hour so as to be able to complete the journey as per schedule?

A. 1.2
B. 1.8
C. 2.4
D. 1.5

Answer: Option B

Q17) What is the diameter in cm of a solid right circular cylinder whose height is 6 cm and the area of the curved surface is five times the combined area of the two flat surfaces?

A. 3
B. 2.4
C. 1.2
D. 0.9

Answer: Option B

Q18) If n is an integer such that 1nn352 is a six-digit number exactly divisible by 24, What will be the sum of the possible values of n?

A. 15
B. 27
C. 9
D. 21

Answer: Option A

Q19) What is mean proportional (MP) between the MPs of (2/7 & 32/343) and (2 & 1/5000)?
A. 3/35
B. 4/35
C. 2/35
D. 2/175
Answer: Option B

Q20) How much percentage is (0.025% of 240% of 1.5) of 0.9?
A. 0.01
B. 10
C. 0.1
D. 1
Answer: Option C

Q21) The cost of filling a gas tank at a shop is Rs. 800. If the shopkeeper reduces the price by 15%.The number of his customers increases by 30%. By what % did his revenue decrease/increase.?
A. 10.5%
B. 10%
C. 8%
D. 12.5%
Answer: Option A

Q22) Rahl takes a sum of Rs. 2310 as a loan. He has to repay this in two equal annual installments. If the rate of interest is 20% compounded annually, what percent of the principal amount taken by Rahul is the total interest paid by him.

A. 20%
B. 40.9%
C. 130.9%
D. 44%
Answer: Option D

Q23) Two numbers are in the ratio of 3:5 . If 3 is added to the first number and 9 is added to the 2nd number, their ratio becomes 4:7. The sum of the original numbers is.
A. 120
B. 150
C. 105
D. 135
Answer: Option A

Q24) Ankush bought (x+2) apples at the rate of Rs. 12 each. One apple got rotten during transportation and he sold all the remaining apples for Rs. 300. If the percentage profit made by Ankush in the whole transaction is 25%, find the number of apples sold by Ankush.
A. 19
B. 15
C. 10
D. 12
Answer: Option A

Q25) An article is marked 36% above its cost price. A discount of 10% is offered on the marked price. Later on, the article was sold

by giving another discount of Rs.12.60. If there is a profit of 15.4%, the marked price (in Rs.) of the article is:
A. 245
B. 243
C. 220.30
D. 244.80
Answer: Option D

Q26) The ratio of 25% of x to 65% of y to 70% of z is 5:26:15. If one sixteenth of their sum(x,y and z) is equal to 10. What is the value of X-2Y+3z?
A. -20 B. -10 C. 10 D. 0
Answer: Option D

Q27) A boat travels 12 km downstream and 6 km upstream in 3 hours. The same boat takes fifty percent extra time to cover 10 km downstream and 16 km upstream. If the same boat travels 20 km downstream and z km upstream in 4 hours find z.
A. 9km
B. 7.5km
C. 8km
D. 4.5km
Answer: Option D

Q28) The savings of surekha are equal to 40% of her expenditure. If her income increases by 20% and the expenditure increases by 40%, her savings decreases by:
A. 20%
B. 30%
C. 50%

D. 10%
Answer: Option B

Q29) The shopkeeper sold some chairs for Rs. 3240 and made a profit of 20%.What was the profit percentage if he had sold chairs for Rs. 2781?
A. 4.25%
B. 3%
C. 4.5%
D. 3.25%

Q30) If 20% apple from a cart are rotten and the remaining apple are sold at 20% discount the seller gets 92%profit on the cost price of the whole cart by what percent above the cost price Has the seller marked up the apples?
A. 180%
B. 250%
C. 280%
D. 200%
Answer: Option D

Q31) Out of 80 students 45%, students passed in Mathematics and 60% students passed in English. If 35% students failed in both the subjects, how many students passed in both the subjects?
A. 24
B. 28
C. 32
D. 20

Answer: Option C

Q32) 50 workers can construct a bridge in 40 days by working 8 hrs per day. But they completed 30 days and completed only half of the work. How many more workers are needed to complete the work on time by working 10 hrs per day?

A. 65
B. 50
C. 60
D. 70

Answer: Option D

Q33) The ratio of the speed of a bus and a car is 2:5. The car covers a distance of 280 km in some t ime and the bus covers a distance of "d" km less in the same time. What is the distance covered by the bus?

A. 112 km
B. 144 km
C. 168 km
D. 132 km

Answer: Option A

Q34) The sum of the present ages of Ajay and his wife Sushma is 82 years. Sushma's present age is 28 years more than Sashank, her son. If Sashank's present age is 12 years, what will be the sum of ages of Sashank and his father after 4 years?

A. 56 years
B. 60 yeras
C. 62 years

D. 58 Years
Answer: Option C

Q35) A sum of Rs 7500 amounts to Rs 9075 at 10% p.a in a certain time, when the interest is compounding annually. What is the amount in (Rs) of the sum at the same sum at the same rate for 6/5th of the earlier time.
A. 9412
B. 9427
C. 9680
D. 9580
Answer - Option B

Q36) The average weight of some students in class is 62kg. If 8 students of average weight 55kg leave the class and13 students of average weight 65 kg joins the class, then the average weight of remaining students in the class is 63.9 kg. The number of students in the class initially was?
A. 45
B. 55
C. 40
D. 50
Answer - Option A

Q37) Ramesh can complete a work in 20 days. Mohan is 66.67% as efficient as Ramesh. Mohan and Ramesh work together. Ramesh leaves after working for some days. The remaining work

is done by Mohan in 10 days. After how many days did Ramesh leave the work?
A. 10 days
B. 6.5 days
C. 8.5 days
D. 8 days
Answer - Option D

Q38) When a number x is divided by 9, the remainder is 6. When the same number is divided by 21, the remainder is 12. If the x lies between 250 and 400, then what is the sum of all possible values of x.?
A. 1107
B. 855
C. 1044
D. 666
Answer - Option B

Q39) A bag contains x+5 yellow balls, 2x+1 blue balls and some red balls. If two balls are drawn one after another from the bag without replacement, then the probability of getting a red and blue ball is 1/6. The total balls in the bag is 4(x+2). Find the number of red balls.
A. 8
B. 4
C. 6
D. 5
Answer - Option D

Q40) The taxi charges in a city consist of a fixed charge together with the fixed charge for the distance travelled in kilometers. When a person travels 72 km he pays 1107. He pays Rs. 898 for travelling 55 km. What will he have to pay for travelling 45 km?

A. Rs. 826
B. Rs. 740
C. Rs. 693
D. Rs. 774

Answer - Option D

Q41) C can complete the work alone in 60 days. A and B take 40% and 75% more time than C. The work was started by A and B, and C worked with A on every third day, In how many day the work will be completed.

A. 16(4/5)
B. 48(1/4)
C. 16(1/4)
D. 48(4/5)

Answer - Option D

Q42) A and B start from the same point and cover equal distances. A travels by car and covers the distance in 3 hours with a speed of 50 km/h. The B travels by bus which stops for 10 mins after covering 10 kms. In how much time will the bus reach the destination if the speed of the bus is 40% less than the speed of the car?

A. 6 h 40 min
B. 7 h
C. 7 h 30 min
D. 7 h 20 min

Answer - Option D

Q43) A sum when lent at the rate of 15% p.a.simple interest for x years amounted to 17,600.When the same sum was lent at the rate of 18% p.a. The Simple interest for (x+2.5) years, it amounted for 24,320. The value of x and the sum, respectively are?
A. 2.5 and 12500
B. 2.5 and 12800
C. 2 and 12500
D. 3.5 and 12800
Answer - Option B

Q44) Raj sold his bat at x% profit after giving a discount of x%. The marked price was Rs. 2,400 more than the cost price. And the selling price was Rs. 900 more than the cost price. Find the value of 4x.?
A. 100
B. 50
C. 40
D. 200
Answer - Option A

Q45) If the average of five consecutive odd number is 27, then what will be the sum of the largest number and the average?
A. 63
B. 62
C. 61
D. 58
Answer - Option D

Q46) A Car covers the distance between two points in 45minutes. If the speed of the car is reduced by 5km/hr, the time taken to cover the distance increases to 48minutes. What is the distance between the two points?

A. 55km
B. 50km
C. 60km
D. 45km

Answer - Option C

Q47) A Sum of money, when invested at 20% interest per annum, compounded half-yearly, amounts to a total of Rs.1,331 after a year. What is the sum of money that had been invested????????

A. 1,120
B. 1,110
C. 1,100
D. 1,125

Answer - Option C

Q48) A shopkeeper bought a lamp at rs.1200 and the ratio of its cost price and marked price was 3:5. it was said after two successive discount of 30% and 18% and incurred a loss or profit of x%. Find x.

A. 4 2/3 profit
B. 4 2/3 loss
C. 4 1/3 loss
D. 4 ⅓ profit

Answer - Option C

Q49)A man has to travel 50 km in two hours. He could 20 km in one hour, and then had to stop for 10 minutes for refueling. By what factor should he increase his speed with reference to that of the first hour so as to be able to complete the journey as per schedule?

1. 1.2
2. 1.8
3. 2.4
4. 1.5

Correct Option - 1

Q50) If (x + 10)% of 240 is 60% more than x% of 180, then 15% of (x + 20) is what percent less than 25% of x?

1.16
2.15
3.15 (1/2)
4.19 (1/21)

Correct Option - 1

Q51)Five consecutive positive even numbers are arranged in ascending order. The sum of squares of 3rd number and 5th number is equal to 400. Then the average of the five numbers is

1.8
2.10
3.12
4.14

Correct Option - 3

Q53)A fruit seller purchased 32 kg grapes for Rs. 960. He dried them to make raisins and would be able to sell raisins for Rs. 65 per kg. He can get 800 gm raisins from 1 kg grapes. Find profit %.

1.Profit 73.33%
2.Loss 73.33%
3.Profit 26.67%
4.Loss 26.67%

Correct Option - 1

Q54)What is the sum (in RS) which divided among X Y Z in the proportion 3 : 5 : 7 provides rupees 8000 more to Z than what it would have done to him when the proportion is 11 : 15 : 19?

1.180000
2.120000
3.175000
4.135000

Correct Option - 1

Q55)Elan, Jeff and Bill together started the business where Elan invested $ 2500 for 8 months, Jeff invested $ 2000 for 12 months and Bill invested $ 6000 for 4 months. If the profit earned from the business is $ 1360, then find the share of Jeff.

1.$ 360
2.$ 420
3.$ 400
4.$ 480

Correct Option - 4

Q56)In a class of 25 students, 12 have taken mathematics, 8 have taken mathematics and computer science. The number of students who have taken computer science but NOT mathematics is:

1.13
2.8
3.4
4.17

Correct Option - 1

Q57)What is the mean proportional (MP) between the MPs of (2/7 & 32/343) and (2 & 1/5000)?

1.3/35
2.4/35
3.2/35
4.2/175

Correct Option - 1

Q58)Three bells ring simultaneously at 11 a.m. They ring at regular intervals of 20 min., 30 min., 40 min. respectively. The time when all the three bells ring together next is

1.2 p.m.
2.1 p.m.
3.1:15 p.m.
4.1:30 p.m.

Correct Option - 2

Q59)When a number is divided by 12, 16, 18 and 21 it will leave a remainder of 7 in each case find the third smallest number of this type.

1.1015
2.2023
3.3031
4.4039

Correct Option - 3

Q60)If 5x 3y = 225 × 405,find the value of x2y - 3x

1.27
2.81
3.125
4.25

Correct Option - 1

Q61)If six digits number 25a64b is divisible by 11. Find the value of (a – b).

1.5
2.4
3.3
4.7

Correct Option - 1

Q62)The collection numbers below is in ascending order (3, 7, 9, N-1, 15, 18, 19, 20) if the median of data 12.5, what is the value of n?

1.11
2.11.5

3.12
4.10.5
Correct Option - 1

Q63)A work can be completed by A, B and C in 12 days,15 days and 24 days respectively. A started the work and worked for 2 days then B joined A and together they worked for 5 days. C completed the remaining work alone. Find the time taken by C to complete remaining work.
1.1 days
2.2 days
3.5 days
4.3 days
Correct Option - 2

Q64)Pipe X, Y and Z can fill a cistern 8 hrs, 12 hrs and 24 hrs respectively. All three began to fill the cistern together but X and Y left 4 hrs and 3 hrs respectively before filling the cistern. What is the total time taken by all of them to fill the cistern?
1.10 hrs
2.7 hrs
3.3 hrs
4.14 hrs
Correct Option - 2

Q65)What is the mean deviation of the data 8, 9, 12, 15, 16, 20, 24, 30, 32, 34?
1.10.2
2. 9.6

3.8
4.0
Correct Option - 1

Q66)How much percentage is (0.025% of 240% of 1.5%) of 0.9?
1.0.01
2.10
3.0.1
4.1
Correct Option - 1

Q67)Dalip can row 42 km downstream in 2 hours and the same distance upstream in 2 hours and 48 minutes. How much time will he take to row 31.5 km downstream and 22.5 km upstream?
1.3 h 15 m
2.3 h
3.2 h 50 m
4.3 h 5 m
Correct Option - 2

Q68)A student goes to college at the rate of 5 km/h and reaches 12 minutes late. If he travels at the speed of 8 km/h he is 15 minutes early. Find the distance between his college and his starting point?
1.7 km
2.9 km
3.5 km
4.6 km
Correct Option - 4

Q69)If the positive square root of (√90 + √80) is multiplied by (√2 - 1) and the product is raised to the power of four, the result would be

1.100
2.1600
3.11520000
4.10

Correct Option - 1

Q70)The average of 41 numbers is 62. The average of the first 21 numbers is 56 and that of the last 21 numbers is 70. If the 21st number is removed, then what will be the average of the remaining numbers?

1.64.25
2.66.75
3.68.85
4.60.95

Correct Option - 4

Q71)In a competitive exam, 5 marks are awarded for every correct answer and for every wrong answer 2 marks are duducted. Sathwik scored 32 marks in this examination. If the 4 marks had been awarded for each correct answer and 1 marks are deducted for each incorrect answer, sathwik should have scored 34 marks. If sathwik attempted all the question, how many question were there in test?

1.12
2.26
3.14

4.20
Correct Option - 1

Q72) Calculate the ratio in which Jeff Bezos mix two varieties of flour costing Rs. 70 per kg and Rs. 75 per kg so that he may gain of 10%. When the selling price of the mixture is Rs. 79.20 per kg.
1. 3 : 2
2. 3 : 5
3. 3 : 4
4. 4 : 5
Correct Option - 1

Q73)A sum invested on simple interest grows to Rs. 22500 and Rs. 25500 in seven and nine years respectively. What is the rate percentage of the interest?
1.9.6
2.13.5
3.12.5
4.7.5
Correct Option - 1

Q74)The work done by (x - 1) men in (x + 1) days and the work done by (x + 1) men in (x + 2) days are in the ratio 5 : 6. The value of x is:
1.16
2.10
3.8
4.6
Correct Option - 1

Question 75- What is the sum (in RS) which when divided among X Y Z in the proportion 3:5:7 provides rupees 8000 more to Z then what it would have done to him when the proportion is 11 : 15 : 19?

a. 180000
b. 120000
c. 175000
d. 135000

Answer :- a

Question 76- If the positive square root of (( ) is multiplied by) and the product is raised to the power of four, the result would be

a. 100
b. 1600
c. 11520000
d. 10

Answer :- d

Question 77- A man has to travel 50 km in 2 hours. He could cover 20 km in one hour, and then had to stop for 10 minutes for refueling. By What factor should he increase his speed with reference to that during the first hour so as to be able to complete the journey as per schedule?

a. 1.5
b. 1.8
c. 1.2
d. 2.4

Answer :- b

Question 78- X is four times as efficient as Y in respect of doing a particular work. Working together they complete the work in 16 days. If you see this text know that this hardwork of PrepInsta was stolen by another company. In how many days y working alone will be able to half the work?

a. 80
b. 20
c. 40
d. 60

Answer :- c

Question 79- The collection of numbers which comprise the data given below is arranged in ascending order. (3,7,9, N - 1,15,18,19,20) If the median of the data is 12.5, what is the value of N?

a. 10.5
b. 11.5
c. 11
d. 12

Answer :- c

Question 80 - How much percentage is (0.025% of 240% of 1.5) of 0.9?

a. 10
b. 0.01
c. 0.1
d. 1

Answer :- b

Question 81 - After purchasing two copies of the same book, X sold them respectively at 0.8 and 1.4 times their cost prices. What was the percentage gain earned or loss incurred by X?
a. 10% loss
b. 5% gain
c. 10% gain
d. 5% loss
Answer :- c

Question 82: A file of cadets consisting of ten rows and five columns measures 420 m in length along the direction of their marching. How much time (in hours and minutes) would it take to march for a stretch of 3 km, if the stride of each cadet is 80 cm and he takes 57 strides per minute?
a. 1 hr 10 min
b. 1 hr 20 min
c. 1 hr 24 min
d. 1 hr 15 min
Answer :- d

Question 83: Two vessels X and Y of capacities one and two litres respectively are completely filled with mixtures of two chemicals A and B.The ratio by volume of the chemicals A and B in X and Y are 3:2 and 4:5 respectively.The contents of A and B are mixed and the combination is kept in a vessel C of capacity of four litres.How many litres of Chemical A should be added to the combination so as to make the ratio of A to B equal to 1:1?
a.1/270
b.1/67
c.1/68

d.1/135
Answer :- c

Question 84 -The diameter of a pizza is 30 cm.What is the area(in cm2)of the upper surface of a sector of the pizza whose arc length is 8 cm?
a. 120
b. 120 pi
c. 60 pi
d. 60
Answer :- d

Question 85- In a competitive exam, 5 marks are awarded for every correct answer and for every wrong answer, 2 marks are deducted. Sathwik scores 32 marks in the examination. If 4 marks had been awarded for each correct answer and 1 mark had been deducted for each incorrect answer, Sathwik would have scored 34 marks. If Sathwik attempted all the questions, how many questions were there in the test ?
1. 14
2. 12
3. 20
4. 26
Answer :- 4

Question 86- An item was sold at a profit of 12% after giving a discount of 12.5% on the list price. What would be the gain or loss percentage if a discount of 25% is given on the list price ?
1. 2.5% gain

2. 2.5% loss
3. 4% loss
4. 4% gain
Answer :- 3

Question 87- The mean of a set of data is 5. What will be the mean if ten is subtracted from each data ?
1. -5
2. 5
3. 10
4. -15
Answer :- 1

Question 88- If (x+10)% of 240 is 60% more than x% of 180, then 15% of (x+20) is what percent less than 25% of x ?
1. 15
2. 19
3. 16
4. 21
Answer :- 3

Questions 89- What is the diameter (in cm) of a solid right circular cylinder whose height is 6 cm and the area of the curved surface is five times the combined area of the two flat surfaces
1. 2.4
2. 0.9
3. 1.2
4. 3
Answer:- 1

Questions 90- A sum invested on simple interest grows to Rs 22500/- and Rs 25500/- is seven and nine years respectively. If you see this text know that this hardwork of PrepInsta was stolen by another company. What is the rate percentage of the interest ?

1. 7.5
2. 9.6
3. 12.5
4. 13.5

Answer:- 3

Question 91 - The variation in temperatures throughout the day in a desert town was studied on the basis of the record of minimum and maximum temperatures which were 8 and 36 degrees centigrade respectively. What was the standard deviation in degree centigrade?

a. 12
b. 22
c. 14
d. 28

Answer:- c

Question 92 - A sum of Rs. 30000 invested in a scheme where the interest gets compounded annually and grows to Rs. 51840 in three years. How much interest in Rs. would have got accrued in six months in the same scheme had the interest been compounded quarterly?

a. 3075
b. 2975
c. 3024

d. 3126
Answer:- a

Question 93- 96 men were engaged for a project of constructing a railway track of the length of 18 km in four weeks. After one week it was observed that the work of 4 km was completed. How many additional men should be engaged for timely completion of the project?
a. 16
b. 14
c. 15
d. 12
Answer:- a

Question 94- If n is an integer such that 1nn352 is a six-digit number exactly divided by 24, what will be the sum of the possible value of n?
a. 21
b. 27
c. 9
d. 15
Answer:- d

Question 95. What is the mean deviation of the data 8,9,12,15,16,20,24,30,32,34?
A.10.2
B.8
C.0
D.9.6

Answer:- B

Q96. What is the value of (a + b + c)2 : (a3 + b3 + c3) if (ab + bc + ca) = 131, (a2 + b2 + c2) = 138 and abc = 280?
A. 15 : 43
B. 18 : 41
C. 20 : 49
D. 17 : 434
Answer: C

Q97. By which of the following is 19541742 divisible?
I. 11
II. 9
III. 12
A. Both I and III
B. Only III
C. Both II and III
D. Only I
Answer: D

Q98. Simplify 0.7 x 0.7 x 0.7 + 0.3 x 0.3 x 0.3 + 0.3 x 0.7 x 3
---------- 0.7 x 0.7 + 0.3 x 0.3 + 0.42
A. 1
B. 1/3
C.-⅓
D. 3
Answer: A

Q99. In an examination, 62% candidates passed in physics and 60% candidates passed in Mathematics. If 37% candidates passed in both these subjects, what percent of the candidates failed in both the subjects?

A. 5%
B. 20%
C. 25%
D. 15%
Answer: D

Q100. If price of petrol increases by 35% and Rajesh intends to spend only an additional 25% on petrol, by how much % will he reduce the quantity of petrol purchased?(Approx)

A. 14%
B. 9%
C. 11%
D. 13%
Answer: C

Q101. If 20% apples from a cart are rotten and the remaining apples are sold at 20% discount, the seller gets 92% profit on the cost price of the whole cart. By what percent above the cost price has the seller marked up the apples?

A. 180%
B. 250%
C. 200%
D. 280%
Answer: C

Q102. Selling an item at 5/6th of its marked price results in a loss of 10%. What is the % of profit/loss, if a discount of 5% is offered on the marked price?

A. 2.6% loss
B. 2.6% profit
C. 3% profit
D. 3% loss

Answer: B

Q103. The simple interest earned on a sum of Rs. 3650 at some rate after 4 years is Rs. 584. Find the rate of interest (in p.a.)

A. 3.5%
B. 4.5%
C. 3%
D. 4%

Answer: D

Q104. If a : b = 3 : 4, b : c = 2 : 3, c : d = 1 : 2, find the value of ((a+b+c+d)/(b+d))^½

A. 5 : 4
B. 4 : 5
C. 1 : 1
D. 2 : 3

Answer: A

Q105. Which of the following statements is true?

I)27840 is divisible by 12
II) 7329753 is divisible by 9

A. Statement I is true, but II is not
B. Statement I is not true, but II is true

C. Both the statements are true
D. Both the statements are not true
Answer: C

Q106. A sum amounts to Rs. 16,000 at the end of three years and to Rs. 25,600 at the end of six years under compound interest (interest being compounded annually). Find the simple interest earned if the same sum is invested at 15% p.a. for two years.
A. Rs. 3,000
B. Rs. 4,000
C. Rs. 3,500
D. Rs. 4,500
Answer: A

Q107. A flask is filled with 20% acid. 49 ml of that solution is taken out and is replaced with 40% acid to make it a solution of 27% acid. Find the initial volume of the solution in the flask.
A. 140 ml
B. 175 ml
C. 70 ml
D. 105 ml
Answer: A

Q108. Disha and Patni entered into a partnership. Disha invested as much money as was earned by Patni a share from the profit. If the profit was Rs. 18,000 and the money invested by Disha was Rs. 3,000 more than Patni, What is the investment made by Disha if it is less than Rs. 5,000?
A. Rs. 4,500

B. Rs. 7,500
C. Rs. 6,000
D. Rs. 5,500
Answer: A

Q109. If the 9-digit number 807x6y9z8 is divisible by 99, then the value of (x + y + z)^½ is _____
A. 4
B. 3√3
C. 6
D. √5
Answer: A

Q110. Rahul and Sachin can complete a work in 60 days and 45 days respectively. Rahul starts working with 120% of his capacity and Sachin with 80% of his capacity. In how many days will they complete 75% of the work if they work together?
A. 25.71
B. 19.85
C. 17.64
D. 16.24
Answer: B

Q111. The ratio of the speed of a bus and a car is 2:5. The car covers a distance of 280 km in some time and the bus covers a distance of d km less in the same time. What is the distance covered by the bus?
A. 132 km
B. 168 km

C. 112 km
D. 144 km
Answer: C

Q112. A boat travels 12 km downstream and 6 km upstream in 3 hours. The same boat takes fifty percent extra time to cover 10 km downstream and 16 upstream. If the same boat travels 20 km downstream and z km upstream in 4 hours, find z.
A. 8 km
B. 4.5 km
C. 7.5 km
D. 9 km
Answer: B

Q113. Ranjeet's present age is half of his brother Manjeet's age after 10 years. After 5 years, the ratio of ages of Manjeet and Ranjeet will be 7 : 5. Find Ranjeet's age 2 years ago.
A. 25 yrs
B. 20 yrs
C. 15 yrs
D. 18 yrs
Answer: D

Q114. A plane is cutting a cone parallel to the base in such a way that the radius of the new cone is half of the radius of the original cone. Find the ratio of the volume of the original cone to that of the volume of the portion of the cone left after being cut by the plane (the part other than the new cone).
A. 8 : 7

B. 9 : 7
C. 7 : 6
D. 8 : 5
Answer: A

Q115. Find the geometric mean of the data 5, 75 and 9.
A. 15
B. 5
C. 45
D. 3
Answer: A

Q116. Find the difference between arithmetic mean and median of the first seven consecutive natural numbers.
A. 1
B. 3.5
C. 2
D. 0
Answer: D

Q117. Find the quartile deviation of the observations 16, 2, 8, 24, 4, 32, 18.
A. 8
B. 12
C. 6
D. 10
Answer: D

Q118. The standard deviation of a series of 'n' observations is σ. If each observation is multiplied by 12, the respective ratio of the standard deviation and the variance is:

A. 1 : 9σ

B. 1 : 12σ

C. 3σ : 1

D. σ : 1

Answer: B

Q119. If the arithmetic mean of 23, 15, 19, p, 12, 7, is 16 while the arithmetic mean of 37, 28, 53, q, 42 is 41, then find (p+q)/(q-p)

A. 2.6

B. 2.2

C. 3.5

D. 3.2

Answer: A

Q120. The LCM and HCF of the three numbers 48, 144 and p are 720 and 24 respectively, find the least value of p.

A. 192

B. 120

C. 360

D. 180

Answer: B

Q121. Simplify and find the value 0.0217 x 3.18 ---------- 0.0053 x 15.5 x 0.7

A. 1.2

B. 0.12

C. 12

D. 0.012
Answer: A

Q122. What value should come in the place of question mark (?) in the following equation? 8 / [2 x 2 - {14 + (2 / 4 x 4) - 13}] = ¾ + ?
A. 2
B. 1/4
C. 29/4
D. 5/16
Answer: C

Q123. Simplify and find the value, 216 x 216 + 216 x 194 + 194 x 194 ---------- 216 x 216 x 216 - 194 x 194 x 194
A. 1/11
B. 2/11
C. 1/22
D. 1/33
Answer: C

Q124. Boy scored 90 marks in his mid-term exam and 105 in his end-term exam. If the maximum marks in both the examinations are 150, then find the increase in his marks in percentage points.
A. 10%
B. 15%
C. 14.28%
D. 16.66%
Answer: A

Q125. A shopkeeper marks the sale price of all items in his shop at 20% above the cost price of those items. However, he offers a discount of 15% on the sale price of these items to his customers. Calculate the profit earned by him, in percentage.

A. 5%
B. 2%
C. 10%
D. 2.5%
Answer: B

Q126. Plant A of a factory, during audit 6% of parts got rejected from the total production. In Plant B, the same number of parts were rejected with 96 units of parts rejected less than Plant A. What was the number of parts produced by each factory?

A. 4800
B. 10000
C. 9600
D. 7200
Answer: A

Q127. Amounts at the end of 2 yrs and 3 yrs are Rs. 1170 and Rs. 1305 on a certain sum, at a certain rate of simple interest. Find the rate of interest.

A. 12% p.a.
B. 9% p.a.
C. 15% p.a.
D. 18% p.a.
Answer: C

Q128. In a certain amount, compound interest at the rate of 12.5% per annum for the fifth year 2048. If the interest is compounded annually. What is the compound interest for the 8th year?
A. $ 2592 B. $ 2304 C. $ 2916 D. $ 3280
Answer: C

Q129. R and company has two directors, X and Y who have invested Rs. 1,25,000 and 1,00,000 respectively. X is the working partner and hence takes 5% of the profit as his salary. Find X's share of the profit, if their annual profit is Rs. 72,000.
A. 40,000 B. 32,000 C. 38,000 D. 42,000
Answer: C

Q130. Two numbers having their LCM 480 are in a ratio 3 : 4. What will be the smaller number of this pair?
A. 180 B. 120 C. 160 D. 240
Answer: B

Q131. Quantity of wine in a mixture (wine + water + soda) is 24 ml more than water and 40 ml less than soda. When 20% mixture is replaced by water, the total quantity of water in the mixture becomes 208 ml. What is the initial quantity of wine in the mixture?
A. 180 ml 4 B. 120 ml C. 160 ml D. 140 ml
Answer: C

Q132. Two taps A and B fill an empty tank in 40 mins and 60 mins respectively. If both the taps are opened at 5 am, then at what time A be closed so that the tank is filled in 36 mins?
A. 5.22 am B. 5.12 am C. 5.16 am D. 5.05 am
Answer: C

Q133. 6 men together can complete a one-third of work in 12 days. Four women together can complete half of the same work in 27 days and nine boys together can complete three-fourth of the same work in 54 days. In how many days can three men, 2 women and 3 boys together complete the work?
A. 30 days
B. 36 days
C. 24 days
D. 45 days
Answer: B

Q134. Sindhu, Madhavi and Jayanthi are participating in a 3 x 900 metres relay race. Sindhu covered her distance in 3 minutes. Madhavi covered her distance in 4 minutes. How much time should Jayanathi take to finish the race to maintain the team's average speed at 4 m/s?
A. 4 minutes
B. 5.25 minutes
C. 4.25 minutes
D. 3.75 minutes
Answer: C

Q135. A box contains a total of 45 coins of one rupee, five rupees and two rupees. The total value of all the coins in the box is Rs. 91. The number of one rupee coin is one more than the total number of 5 rupees and two rupees coins. What is the number of five rupees coins in the box?
A. 12 B. 8 C. 6 D. 10
Answer: B

Q136. Akshat's walking speed is 5 km/h. The bus stop is 1 kilometre away from his house. Akshat walks to the bus stop and then takes a bus to school. The speed of the bus is 40 Km/h. Akshat's school is 10 Kilometers away from the bus stop. How much time will Akshat take to reach his school form his house, if he boards a bus as soon as he reaches the bus stop?
A. 20 minutes 5 B. 34 minutes C. 27 minutes D. 30 minutes
Answer: C

Q137. A park is square in shape with its perimeter four times the perimeter of a rectangle having length 15 metres and breadth 10 metres. There is a semi-circular lawn inside the park that has a diameter equal to the side of the square. Calculate the perimeter of this lawn.(Take n = 3.14).
A. 140 metres
B. 50 metres
C. 128.5 metres
D. 125.5 metres
Answer: C

Q138. A magician wants to hide his magical rod inside a cubical box whose total surface area is 3042 cm2. What can be the maximum length of the rod?
A. 37 cm B. 42 cm C. 33 cm D. 39 cm
Answer: D

Q139. The average of 13 consecutive natural numbers in x. If the seventh number is 22, find x.
A. 20
B. 22
C. 28
D. 14
Answer: B

Q140. The standard deviation of prime numbers between 60 and 80 is 6.72. If each observation is multiplied by the median of the numbers, then find the difference of standard deviations of the obtained observations and median of the numbers.
A. 484.68
B. 412.36
C. 406.12
D. 477.12
Answer: D

Q141. A number 452p36 is such that it is divisible by 36. What can the value of p2 be?
A. 36
B. 49
C. 25

D. 16
Answer: B

Q142. Find the value of (5.7)4+(3.3)4+(18.81)2 ---------- = ? (5.7)2+(3.3)2-(18.81)
A. 53.89
B. 61.79
C. 59.59
D. 62.19
Answer: D

Q143. The value of (8.3)2+(7.9)2+6.2(6.2+7.9+8.3)-8.3x7.9
---------- (83)3+(79)3-(62)3+83x237x62
A. 0.001
B. 0.1
C. 0.0001
D. 0.01
Answer: C

Q144. The price of a commodity is reduced by 40% but its consumption is increased by 35%. What percent of the consumption should be increased so as to keep the same expenditure as before? (correct to one decimal place)
A. 24.2 B. 15.4 C. 18.5 D. 23.5
Answer: D

Q145. The expenditure of Rashmi is equal to 225% of her savings. If her income increases by 20% and the expenditure increases by 40%, then her savings will _____

A. decrease by 20%
B. increase by 25%
C. increase by 33(⅓)%
D. decrease by 25%
Answer: D

Q146. A business lady bought 400 handbags. She sold 100 of them at a profit of 20% and the rest at 10% profit. Find her overall profit %.

A. 11.25%
B. 12.5%
C. 16.75%
D. 13.75%
Answer: B

Q147. Rajesh runs a shop where he sells articles which are of equal marked prices. Rajesh had bought each of these articles at an equal cost price. Even after selling articles at a discount of 20%, Rajesh earns a profit of 20%. If on a particular day Rajesh earned a profit equal to the cost price of 100 articles by selling articles at marked price, how many articles did Rajesh sell on that day?

A. 200 B. 150 C. 100 D. 300
Answer: A

Q148. Simple interest on a sum after 32 months at 24 (4/9) % rate of interest is Rs. 7040. What is the compound interest on 28 ⅓ % more sum at 20% rate of interest after 2 years?
A. Rs. 5575.4
B. Rs. 5447.4
C. Rs. 6098.4
D. Rs. 6194.4
Answer: C

Q149. A loan of Rs. 52160 has to be returned in two equal annual installments. If the rate of interest is 3.75% p.a., compounded yearly, the total interest to be paid is
A. Rs. 2824
B. Rs. 2842
C. Rs. 2925
D. Rs. 2952
Answer: D

Q150. In a school, a total of 12 cakes of 1.5 kg each are ordered for the distribution of cakes to the children. Each boy is given 20 grams of a piece of cake and each of the girls is given a piece of 30 grams of cake. The number of girls in the school is twice the number of boys. Find the total number of children in the school.
A. 675 B. 650 C. 475 D. 525
Answer: A

Q151. 30L container has pure milk. 3L of milk is taken out and replaced with water. How many times this process must be done so that the concentration of pure milk reduces by 27.1%?

A. 3
B. 4
C. 2
D. 1
Answer: A

Q152. Vessels A and B contain solutions of only alcohol and water. The ratio of alcohol and water A is 3:5 and in B, it is 9:7. The contents of A and B are mixed in the ratio 3:2. How much water(in mL) should be added to 180 mL of the resulting solution to get a new solution containing alcohol and water in the ratio 1:2?
A. 68
B. 63
C. 65
D. 70
Answer: B

Q153. Working 9 hours daily, 32 men can complete a piece of work in 25 days. In how many days, can 40 men complete 2.5 times the same work working 6 hours daily?
A. 75
B. 72
C. 60
D. 80
Answer: A

Q154. A water taxi requires 9 hrs to cover 20 km upstream or 120 km downstream. Find the total time it takes for a round trip between city A and city B, separated by a distance of 40 km.
A. 15
B. 21
C. 22.5
D. 18
Answer: B

Q155. Two-fifth of a tank can be filled by pipe A in six hours, three-eighth of the tank can be filled by pipe B in four and a half hours, while pipe C attached at the bottom of the tank can empty one-fifth of the tank in ten hours. All the three pipes are opened simultaneously, when the tank is empty. In how much time will the tank be filled completely?
A. 6 hours
B. 8 hours
C. 7 hours
D. 9 hours
Answer: B

Q156. Two persons were approaching each other at 12 km/hr and 24 km/hr respectively. A train moving in the same direction as the faster man took 25 seconds to cross him and 15 seconds to cross the other one. Find the speed of the train (in km/hr).
A. 60
B. 45
C. 78
D. 66
Answer: C

Q157. At a shop, the price of rice per kg is Rs. 15 less than the price of wheat per kg, while the price of black gram is Rs. 10 more than the price of wheat per kg. A customer bought six kg each of rice, wheat, and black gram for Rs. 780. What is the price of 2 kg of rice and 3 kg of black gram?

A. Rs. 225
B. Rs. 165
C. Rs. 195
D. Rs. 255

Answer: A

Q158. Two parallel sides of a trapezium are in the ratio of 4:3 and the distance between the two parallel sides is 50% less than the sum of the lengths of the two parallel sides. Find the sum of the lengths of the two parallel sides if the area of the trapezium is 784 sq.cm.

A. 35 cm B. 28 cm C. 42 cm D. 56 cm

Answer: B

Q159. A candle in the shape of a cylinder has a radius of 12 cm and is 4 cm long.By how many centimeters can the length be increased so that when the radius is increased by the same amount, the weight of the candle increases equally?

A. 12 cm
B. 6 cm
C. 4 cm
D. 8 cm

Answer: B

Q160. Let x, y and z be the mean, median and range, respectively of the following data:
10, 7, 12, 21, 37, 14, 19, 28, 18, 12 and 42. What is the value of (x+y-z)?
A. 3
B. 4
C. 2
D. 7
Answer: A

Q161. If the standard deviation of x1,x2,.....,xn is S, the variance of x1 + c, x2 + c, is _____
A. 28
B. 8
C. s2
D. s
Answer: s2

Q162. Three years ago, the average age of a family of four members was 26 years. The average age of the two children of the family five years ago was eight years. What is the age of the elder persons of the family?
A. 50 yrs
B. 45 yrs
C. 35 yrs
D. 40 yrs
Answer: B

Q163. What is the remainder when 1383 is divided by 11?
A. 6
B. 3
C. 8
D. 5
Answer: B

Q164. If p = (√6 - √5) and q = (√10 + √3), then what is the value of (p2+q2)/6?
A. 9
B. 6
C. 4
D. 3
Answer: C

Q165. What will come in place of the question mark (?) in the following question? 1610 × 2? = 88 × 324
A. 5
B. 2
C. 4
D. 3
Answer: C

Q166. In measuring time using a device the percentage error is 0.1%. What will be the percentage error in the measurement of square of a time interval by using the same device, when the CORRECT value (in second square) is 16?
A. 0.2001
B. 0.201

C. 0.2002
D. 0.2004
Answer: D

Q167. A Shopkeeper has initially 400 Cookies. He sold 15% Cookies to Bindhu, 20% more Cookies than Bindhu to Preet, 40% Cookies to Raju and remaining Cookies to Karan. How many Cookies did Karan buy?
A. 108
B. 112
C. 96
D. 84
Answer: A

Q168. A shopkeeper incurs a loss of Rs. 90 if he marked up the price of an article by 10% and offered x% discount. He gains Rs. 70 on the same article if he exchanges the marked price with discount percent. Find the value of x?
A. 50
B. 25
C. 60
D. 40
Answer: A

Q169. A lady bought two sarees of Rs. 2000 each. She sold one at a loss of 10% and the other at a profit after offering a discount of 5%. She incurred an overall loss of 3.7%. What percentage above the cost price was the marked price of the second saree?
A. 4

B. 8
C. 3.2
D. 3.6
Answer: B

Q170. Mahendra invested certain amount in scheme for 3(⅕) years at 24(½)% Simple Interest, and the interest amount received is Rs. 11760. For how much more time must he invest his capital to obtain Rs. 5880 more interest?
A. 1.2 years
B. 1.5 years
C. 1.6 years
D. 1.8 years
Answer: C

Q171. What is the interest (in Rs.) on Rs. 20 lakhs, at the rate of 4%, compounded annually of 27 months?
A. 393424
B. 384176
C. 276168
D. 356128
Answer: 184514.89 (Options are wrong)

Q172. If a:b = 5:7 and 1/c:1/b = 8:9; which among the following represents a:b:c?
A. 40:63:56
B. 20:35:24
C. 40:56:63
D. 20:24:35

Answer: C

Q173. The respective ratio between the present daily wages of a Harsh and Pankaj is 7:8. After 8 years, this will be 9:10 respectively. If at the time of joining, the ratio of their wages was 11 :13 respectively, how many years ago they were joined the work?

A. 4
B. 8
C. 10
D. 6

Answer: D

Q174. X, Y, Z started a partnership business by investing capitals in the proportion 4:5:8. At the end of the business term, the profits earned by Y, Z, X turned out to be in the proportion 8:9:12. What was the proportion of the periods for which the investments were made by Z, X, Y?

A. 18:45:25
B. 3:5:4
C. 48:75:50
D. 45:120:64

Answer: D

Q175. A and B, working alone, can do a work in 8 and 5 days respectively. They work together and a total payment of Rs. 6500 is made to them. What is the share (in Rs.) of B?

A. 3900
B. 2500

C. 4000
D. 2600
Answer: B

Q176. 12 girls can complete a work in 21 days. 7 boys can finish the three-fifths of the same work in 30 days. Find the time taken by 3 girls and 1 boy to complete the (31/42)th of the work?
A. 30 days
B. 45 days
C. 50 days
D. 60 days
Answer: 50

Q177. A person has to cover 720km distance. If he decreases his speed by 12 km/h, he reaches 2 hr late. Find the ratio of his initial and final time to reach the destination respectively.
A. 4:5
B. 7:9
C. 5:6
D. 6:7
Answer: C

Q178. A motor cyclist sets out for a journey of length 50km. After 42 mins it is observed that he has covered 7/18 of the remaining distance. With how much speed should he travel the remaining distance, so that his average speed for the entire journey is 31.25 km/h?
A. 45
B. 36

C. 40
D. 30
Answer: C

Q179. The difference between two numbers is 76. Thrice the smaller number is less than the larger number by 37.5% of the smaller number. What is the larger number?
A. 108
B. 120
C. 126
D. 102
Answer: A

Q180. A hollow ,metallic cube of uniform thickness 1 cm, and outer edge 10cm melted and recast for getting it into a solid spherical shape. But in the process only 11/21 of the material could be recovered.Then what is the radius (nearest to integer in cm) of the spherical shape so obtained (Take Π = 22 7
A. 3
B. 5
C. 4
D. 6
Answer: A

Q181. The difference between the circumference and the radius of a circular playground is 185cms. If one fence is needed around the ground, what will be the cost of fencing if the price for fencing is Rs. 12 per cm?
A. Rs. 2720

B. Rs. 2160
C. Rs. 2280
D. Rs. 2640
Answer: D

Q182. The range of the data 10, 8, 12, 23, 18, 35, 56, 82, 49 and 76 is how much less than its maximum value?
A. 9 B. 10 C. 8 D. 12
Answer: C

Q183. The sum of the consecutive even numbers is 240. What is the least number of another set of seven consecutive even numbers whose average is the second highest number of the given set?
A. 44 5 B. 72 C. 68 D. 66
Answer: A

Q184. If x is the arithmetic mean of the first 4 prime numbers, Y is the arithmetic mean of the first 4 composite numbers and Z is the arithmetic mean of the first 4 multiples of 11 then, find the mode of the following numbers. 7, 3, 9, 11, 3, X, Y, Z, 9, 7, 8 and 7
A. 11 B. 7 C. 9 D. 3
Answer: B

Q185. The cost of one share of 6 different companies is Rs. 46, Rs. 42, Rs. 51, Rs. 43, Rs. 40 and Rs. 53 respectively. How much more is the mean deviation about the median of the given costs than the mean of the costs?

A. 43.83
B. 41.67
C. 45.83
D. 46.33
Answer: B

Q186. If the 5-digit number 776xy is divisible by 3, 7 and 11, then the value of (5x+3y)?
A. 13
B. 21
C. 23
D. 26
Answer: C

Q187. If a3 + b3 = 539 and a+b = 11, the value of √{(a+b)2+7ab} is:
A. 18
B. 17
C. 13
D. 19
Answer: B

Q188. In an examination, 55% of the students passed and 621 failed. If the number of students for the exam was 69% of those who had applied for the exam, how many students applied for the examination?
A. 1960
B. 1380
C. 2000
D. 1800

Answer: C

Q189. In 2020, a certain number of students for institute A appeared in the annual examination and 35% of the students failed. In the same year, 250% more students than that of A appeared in the same examination from institute B. If 70% of the total students of A and B, passed the examination, then the fail percentage of students of institute B is _____ . (correct to one decimal place)
A. 31.4 B. 25.7 C. 32.2 D. 28.6
Answer: D

Q190. A milkman adds 20% water to a given quantity of milk. He marks the price of adulterated milk by 25% of price of pure milk. What discount should he offer on the marked price for no profit no loss situation?
A. 25% B. 20% C. 16% D. 33.33%
Answer: A

Q191. A shopkeeper gains 20% by selling an article at 25% discount on its marked price. If the cost price of the article increases by 20%, how much discount percentage should he give now on the same marked price to get a profit of 8%?
A. 20 B. 19 C. 12.5 D. 16.5
Answer: B

Q192. The difference between the simple interests accrued on a sum at p% p.a. and (p-5)% p.a. after four years will be Rs. 12,000. Find the sum?
A. Rs. 80,000
B. Rs. 72,000
C. Rs. 60,000
D. Rs. 50,000
Answer: C

Q193. What is the difference between the compound interest on Rs.60000 at the rate of 12% per annum compounded annually in 2 years and simple interest earned on Rs.50000 at 16% per annum in 2 years?
A. Rs. 746
B. Rs. 856
C. Rs. 816
D. Rs. 736
Answer: D

Q194. If a:b = 2:3; b:c = 4:5; and d is 20% more than c, find the ratio between a and d?
A. 4:9
B. 8:9
C. 4:7
D. 1:4
Answer: A

Q195. Aditya, Bhaskar and Chandu divide an amount of Rs. 10,200 among themselves in the ratio 4:7:6. Aditya and Chandu

give Rs.600 each to charity and Bhaskar lent Rs. 3,000 to Pradeep and earned an interest of Rs. 1,200. Find the ratio of amounts with them now.
A. 5:4:6
B. 3:5:9
C. 4:5:6
D. 3:9:5
Answer: B

Q196. Pipes A and B can fill an empty tank in 20 mins and X mins respectively, whereas C can empty the full tank in 60mins. When pipes A, B and C are opened simultaneously the tank will be filled in 15 minutes. What is the value of X?
A. 40 B. 30 C. 20 D. 45
Answer: B

Q197. The lengths of trains X and Y are 240m and 300m respectively. X and Y pass a static pole in 6 and 12 seconds respectively. In what time (in seconds) will they cross each other, if they move in the same direction?
A. 36 B. 24 C. 18 D. 30
Answer: A

Q198. A boat can go 48km upstream and 36km downstream in 5.8 hrs. The speed of the boat in still water is 16km/h. How much time (in hrs) will the boat take to go 54km upstream and 40km downstream?
A. 6.8 B. 6.5 C. 7.2 D. 7.5
Answer: B

Q199. A box contains 25 paise coins and 50 paise coins. If the number of 25 paise coins is tripled, amount of money in box will increase by 50%, then number of 50 paise coins CANNOT be equal to

A. 36
B. 28
C. 32
D. 25

Answer: D

Q200. The sides of a triangular park are 36 m, 105 m and 111m. The cost (in INR) of levelling the park at INR. 8.50 per m 2 is _____ .

A. INR 15.980
B. INR 16,065
C. INR 17,010
D. INR 15,120

Answer: B

Q201. The volume of a solid right circular cone of height 16 cm is 15085(5/7) cm3. What is the curved surface area (in cm2) of the cone? (Take π = 22/7) (correct to one decimal place)

A. 3300.2
B. 3205.7
C. 3200.4
D. 3105.8

Answer: B

Q202. What is the difference between Range and Quartile deviation of the following 11 items: 8, 10, 16, 22, 28, 18, 34, 35, 40, 26 and 12?

A. 22
B. 32
C. 11
D. 21
Answer: D

Q203. The mean of the first 7 multiple of smallest composite number is K, then find the median of the following numbers. 10, K, 13, 12, 16, 14 and 18

A. 15
B. 13
C. 16
D. 14
Answer: D

Q204. 30 packets of sugar of the same weight are kept in a storeroom. If 6 more packets of 35 kg each are kept in the storeroom, the average weight increases by 2.5 kg. Find the arithmetic mean of the initial total weight of sugar and the final total weight of sugar in the storeroom.

A. 600 kg
B. 750 kg
C. 810 kg
D. 705 kg
Answer: D

Q205. What is the value of 1.59 X 1.59 + 8.46 X 0.53 + 9 X 0.47 X 0.47 ?

A. 9.025
B. 6.25
C. 9
D. 4

Answer: Option C

Q206. For a grouped frequency distribution having eight classes, the upper class boundaries of the lowest and the highest classes are 10 and 66 respectively. What is the lower class boundary of the highest class?

A. 57
B. 60
C. 58
D. 59

Answer: Option B

Q207. Four men and two women can do a piece of work together in one day. If a woman is twice as efficient as a man, in how many days can a woman working alone do the work?

A. 4
B. 6
C. 8
D. 2

Answer: Option A

Q208. Raju buys 3 goats and 2 sheeps for Rs.11600. When he sells the goats at 20% profit and the sheep at 10% loss, he earns a total profit of Rs.1000. The cost of one sheep is .
A. Rs.2600 B. Rs.4600 C. Rs.2400 D. Rs.2200
Answer: Option D

Q209. A train starting from station X was to arrive at station Y at 6:06 PM. It could travel at 62.5% of its usual speed and reach Y at 7 PM. At what time did it start from X?
A. 4:44 PM B. 4:56 PM C. 4:36 PM D. 4:24 PM
Answer: Option C

Q210. The sum of two numbers is 2604 and their HCF is 124. Which is the smaller between them if their difference is the least possible?
A. 1116 B. 1240 C. 620 D. 496
Answer: Option B

Q211. In how many ways can X give Rs.500 to Y using only Rs.100 and Rs.20 notes, with the condition that she has only 16 notes of Rs.20, and being asked to use the notes of both the denominations?
A. 6 B. 3 C. 4 D. 2
Answer: Option C

Q212. What sum (in Rs) given on loan for two years with scheme of return on the basis of compound interest at a yearly rate of

10% will correspond to repayment through equal monthly installments of Rs.9075?
A. 165000
B. 180000
C. 189000
D. 198000
Answer: Option B

Q213. A sales representative's commission is 6% on all sales up to Rs. 15000 and 5% on all sales exceeding this. He remits Rs. 47350 to his company after deducting his commission. What were the total sales?
A. Rs. 49000
B. Rs. 47500
C.Rs. 50500
D.Rs. 50000
Answer: Option D

Q214. The capacities of three containers X, Y and Z are 1, 2 and 4 liters respectively. Initially, X is empty, while Y and Z are full of water and milk respectively. X is filled from Y, Y is replenished from Z and X is emptied into Z. If this process is repeated once more, then what will be the ratio of milk in Y to water in Z?
A. 3:5
B.1:1
C.4:3
D. 4:5
Answer: Option B

Q215. A particular distribution is represented by two data points. If the range and the standard deviation of the distribution are R & S respectively, what is the relation between them?

A. S = $\sqrt{R}$

B. S = 2R

C. S = R ? ?

D. S = 2

Answer: Option D

Q216. The average score in Mathematics of a class increases by 10% if the total marks secured by a number of students who form 20% of the class strength and whose average score is 48 is not included in the calculation. What is the average score?

A. 90

B. 60

C. 75

D. 80

Answer: Option D

Q217. What will be the percentage increase in the area of a square, If its side is increased by 20%?

A. 44%

B. 40%

C. 36%

D. 20%

Answer: Option A

Q218. If 25% of a number is equal to the three-fifths of another number, what will be the ratio of the first number to the second number?
A. 5:12
B. 12:5
C. 12:15
D. 15:12
Answer: Option B

Q219. The ratio is incomes of P and Q is 7:5 and the ratio of their expenditures is 4:3. IF at the end of the year, P and Q save Rs.3000 and Rs. 2000 respectively, what is Q's income?
A. Rs.5000
B. Rs.4500
C. Rs.4000
D. Rs.7000
Answer: Option A

Q220. A hollow spherical ball of thickness 1 cm and external radius 5 cm is melted and then from the solid so obtained, without any loss of material, 61 identical spherical balls are obtained. What is the diameter (in cm) of each ball?
A. 1.5 B. 3 C. 1 D. 2
Answer: Option C

Q221. Raju lends Rs. 3000 to Bharath and a certain sum to Charan at the same time at 6% per annum simple interest. If after 5 years, Raju altogether receives Rs. 1650 as the interest from Bharath and Charan, what is the sum lent to Charan?

A. Rs. 2500
B. Rs. 2750
C.Rs. 3250
D.Rs. 3300
Answer: Option A

Q222. The monthly expenses in a boarding house are partly fixed and partly a multiple of the number of boarders. It is Rs. 78660 and Rs 94884 when the numbers of borders are 62 and 75 respectively. What is the monthly expense (in Rs) when the number of borders is 80?
A. 101534
B. 101124
C.100804
D. 100926
Answer: Option B

Q223. What is the sum (in Rs) which when divided among A, B, C, D in the proportion 2:3:5:8 provides Rs 8420 less to D than what it provides to him when the proportion is 1 1 1 1 : : : 2 3 5 8
A. 25020
B.12510
C.37530
D. 17540
Answer: Option A
Q224. A number is divided by 1001 (=7*11*13) and it was divided in succession by 7,11 and 13, to obtain the remainders 4,6 and 12 respectively. What would have been the remainder if the number was divided directly by 1001?
A. 828

B. 982
C. 764
D. 970
Answer: Option D

Q225. At an election between two candidates A and B, all the eligible candidates had voted, but 4% of votes were not valid. A, the winner got support from 52% of the voters and defeated B by 600 votes. What was the total number of votes?
A. 7500
B. 8000
C. 6250
D. 6000
Answer: Option A

Q226. 72 men are engaged for a task with a timeline given beforehand. It is found that in 6 38 % of the given time 36% of the task is accomplished. How many additional men are to be 13 engaged so that the timeline can be met?
A. 12 B. 8 C. 6 D. 9
Answer: Option B

Q227. The average speed of X always turns out to be 150% that of Y, who can travel 20 km in 3 hr 36 min. If X sets on a journey of 150 km and stops for half an hour each at two stages in between, what will be the total time (in hours) he had been on move?
A. 15 B. 17 C. 13.5 D. 16.5
Answer :- 18

Q228. A sum invested in a scheme where the interest gets compounded quarterly grows to Rs.140000 and Rs.157304 respectively in 15 and 21 months respectively. What is the interest per annum?

A. 6
B. 12
C. 24
D. 15

Answer: Option B

Q229. A sum invested in a scheme where the interest gets compounded quarterly grows to Rs.140000 and Rs.157304 respectively in 15 and 21 months respectively. What is the interest per annum?

A. 6
B. 12
C. 24
D. 15

Answer: Option B

Q230. If two numbers are respectively, 25% and 40% less than the third number, what is the ratio of these two numbers?

A. 4:5
B. 5:4
C. 3:5
D. 3:4

Answer: Option B

Q231. X working alone takes 75 days more than Y to do a work, and working together they complete it in 20 days. If a certain sum has been earmarked as wages for his work, in what ratio should it get distributed among X and Y?

A. 2 : 5
B. 2 : 3
C. 1 : 5
D. 1 : 4

Answer: Option D

Q232. A room measuring 6m 65cm long and 4m 55cm broad is to be paved with the least number of squared tiles. Then the least number of squared tiles required to cover the floor is

A. 247
B. 210
C.257
D. 187

Answer: Option A

Q233. Raju lends Rs. 3000 to Bharath and a certain sum to Charan at the same time at 6% per annum simple interest. If after 5 years, Raju altogether receives Rs. 1650 as the interest from Bharath and Charan, what is the sum lent to Charan?

A. Rs. 2500
B. Rs. 2750
C. Rs. 3250
D. Rs. 3300

Answer: Option A

Q234. P,Q,R are three cups having capacities of 120,180 and 200 cc respectively which are completely filled with tea of three different varieties. They are all mixed in a separate vessel of capacity more than that of P,Q,R taken together, and then the mixture is poured successively into P,Q,R Then how much (in cc) of Pand Q's tea will be there in R?

A. 44(P), 76(Q)
B. 56(P), 64(Q)
C. 48(P), 72(Q)
D. 52(P), 68(Q)
Answer: Option C

Question 235: The average age of five persons in a group is 18 years. The group has an additional member, such that the new average is 25 years less than the age of the new member. What is the age(in years) of the new member?

A. 48
B. 38
C. 50
D. 42
Answer: Option A

Question 236: What is the average of all the natural numbers from 31 to 50, both inclusive?

A. 39.5
B. 40.5
C. 40
D. 38
Answer:Option B

Question 237: A restaurant serves small pizzas of 6-inch diameter and regular pizzas of 9-inch diameter. If a small pizza is priced at ₹200, then what is a fair price for a larger pizza of the same type?

₹450
₹300
₹350
₹400

Answer: ₹450 Option A

Question 238: While presenting data in the form of a positive number, I committed a mistake by mentioning the cube of the number. If the error due to this mistake was 800%, what was the number?

A. 2
B. 4
C. 5
D. 3

Answer: Option D

Question 239: A retailer gives a discount of 20% on an item, and yet makes a profit of 10%. What is the ratio of the cost price to the list price?

A. 7 : 12
B. 8 : 11
C. 4 : 5
D. 1 : 2

Answer: Option B

Question 240: There were 36 students in a class and their average height was 4 feet 6 inches. At the end of the year, 4 students, with an average height of 3 feet 3.5 inches left the class. Moreover, 6 new students got admitted to this class, their average height being 4 feet 9 inches. The average height, in feet, of the students currently in the class is:

A. 4(⅙)
B. 4(⅔)
C. 4(¾)
D. 4(⅓)

Answer: Option B

Question 241: X goes to the office by driving at 5/7 times his usual speed. If he normally takes half an hour to reach his office by how many minutes will he be late?

A. 12
B. 8
C. 10.5
D. 13.5

Answer: Option A

Question 242: A set of mugs consists of 5 plastic mugs each of a different design and 2 glass mugs each of a different design. In how many ways can these 7 mugs be arranged in a row if the glass mugs are separated from each other?

A. 4320
B. 1440
C. 3600
D. 5040

Answer: Option C

Question 243: The product of a real number and its square is 1728. What is the number? Enter your answer ONLY as NUMERAL in the box.

Answer: 12

Question 244: Anil buys cashews and raisins from a farmer, the per kg price of cashews being four times that of raisins. He sells 8 kg cashews at 20% profit, and 12 kg raisins at 30% profit to Sunil. Now, Sunil sells 5 kg of cashews at ₹120 per kg, and then mixes the remaining cashews and raisins and sells this mixture at ₹95 per kg. If Sunil makes a total profit of 25% the price, in ₹ per kg, paid by Anil for cashews is:

Answer: 120

Question 245: What is the least multiple of 13 which divided by 3, 4, 5, 8 and 10 leaves remainder 2 in each case? Enter your answer ONLY as NUMERAL in the box.

Answer: 962

Question 246: In a birthday party, there are 20 identical slices of cake that have to be distributed among 4 children. If every child is to get at least two slices, then in how many ways can this distribution be done? Enter your answer ONLY as NUMERAL in the box.
Answer:455

Question 247: P is five times as efficient as Q in respect of doing work. Together, they complete it in 20 days. In how many days can P alone do it?

A. 28
B. 24
C. 25
D. 30

Answer: B

Question 248: In case of a transaction, there was a loss of 18.75%. What was the ratio of the cost price to the selling price?

A. 4 : 3
B. 8 : 5
C. 32 : 25
D. 16 : 13

Answer: 16:13 D

Question249: A valuable sword belonging to the Grand King was stolen, and the three suspects were Ibn, Hasan and Abu. Ibn claimed that Hasan stole it, and Hasan claimed that Abu stole it. It was not clear that one of them stole it, but it was later learnt that no innocent person had lied. It was also learnt that the sword was stolen by only one person.Who stole the sword?

A. Hasan
B. Abu
C. Ibn
D. None of them

Answer: Hasan A

Question 250: A sum of ₹10,00,000 was invested in a scheme where it got compounded annually and the sum increased to ₹11,06,704 in 2years. What is the rate of interest?
A. 5.2% B. 5.4% C. 4.8% D. 4.4%
Answer:Option A

Question 251: Mita and Geeta jointly start a small business Mita invests ₹15,000, whereas Geeta invests ₹10,000. After 2 months, Mita withdraws ₹2,500 from her investment in the business. After 8 more months, Mita again withdraws ₹2,500. Geeta does not withdraw any money in 1 year. After 1 year, they make a profit of ₹8,100 from their business. If they want to share this profit in the ratio of their money in the business, then how much money, in ₹, should Mita get as her share of the profit?
A. 4400 B. 4200 C. 4500 D. 4300
Answer: 4500 C

Question 252: Given a set of letters {a, b, c, d, e, f, g, h, i, j, k, l, m}, we can list out all permutations of these letters in lexicographic (dictionary) order. The first three permutations in this list are abcdefghijklm, abcdefghijkml and abcdefghijlkm and the last one is mlkjihgfedcba. What permutation would appear immediately after the following one in this lexicographically ordered list of permutations?
Bcjameflkihgd
A. Bcjameglkihfd
B. Bcjamegdfhikl
C. Bcjalefmkihgd
D. Bcjameflkihdg
Answer: B Bcjamegdfhikl

Question 253: A music talent show has 100 contestants and 10,000 viewers. Each viewer picks their top 5 performers. Any performer who is nominated by at least 20% of the viewers gets a prize. What is the maximum number of prizes that could be awarded? A. 50
B. 25
C. 10
D. 5
Answer: 25 B

Question 254: A sum invested at simple interest to ₹18375 and ₹20125 in 5 and 7 years, respectively. What was the interest (in ₹) earned in 1 year?
A. 950
B. 925
C. 875
D. 975
Answer: 875 C

Question 255: The average age of five persons in a group is 18 years. The group has an additional member, such that the new average is 25 years less than the age of the new member. What is the age (in years) of the new member?
A. 42 B. 50 C. 48 D. 38
Answer: 48 C

Question 256:An express train is 150 metres long and it is running at a speed of 90 km per hour. It crosses a mail train, which is running on a parallel track in the opposite direction, in

6.3 seconds. When these two trains are travelling on parallel tracks in the same direction, with the same speeds as before, they take 50.4 seconds to cross each other. The length, in meters, of the mail train is: Enter your answer ONLY as NUMERAL in the box

Answer: 130

Question 257: I asked my daughter how many students there are in her class.She said it is equal to the sum of 3 consecutive natural numbers. Moreover, it is also equal to the sum of the two natural numbers following those 3 consecutive natural numbers. What is the answer to my question? Enter your answer ONLY as NUMERAL in the box.
Answer: 15

Question 258: You want to pick two distinct numbers from the set {1, 2, 3, 4}. In how many ways can you do this so that the product is even? Enter your answer ONLY as NUMERAL in the box.

Answer: 5

Question 259: I was supposed to complete a task in 12 h, but I took more time and the error was 6.25%. How much time did I take to complete the task?
A. 12 h 15 min
B. 12 h 30 min
C. 12 h 20 min
D. 12 h 45 min
Answer: D 12 h 45 min