

# TOP 100 QUANTITATIVE APTITUDE QUESTIONS



**FOR ALL BANKING EXAMS**

## 100 Quant Questions for All Banking Exams

1. A boat goes 28 km downstream and while returning covered only 75% of the distance that was covered in upstream. If the boat takes 3 hr more to cover the upstream than downstream, then find the speed of the boat in still water (km/hr) if the speed of stream is  $5/9$  m/s.

- A. 8 kmph
- B. 2 kmph
- C. 5 kmph
- D. 4 kmph
- E. 3 kmph

Correct Answer: Option C

2) There are 3 points P, Q, & R in a straight line in a river such that point Q is equidistant from point P and point R. Boat traveled from P to R downstream in 8 hrs and from point Q to P in 12 hours. Find the ratio between speed of boat in still water to speed of current?

- A. 3:1
- B. 2:1
- C. 1:2
- D. 5:2
- E. 2:3

Correct Answer: Option B

3) A boat covers 60 km upstream and 60 km downstream in 22.5 hr with its usual speed. If the boat doubles its speed, then new upstream speed is 150% more than usual upstream speed. Find the time taken by boat to cover 80 km downstream with the usual speed.

- A. 12 hr
- B. 20 hr
- C. 5 hr
- D. 16 hr
- E. 10 hr

Correct Answer: Option E

4) The speed of 2 boats A & B in the still water is in the ratio of 3:4 and the speed of current is 4 km/hr. A starts from point P, 45 minutes earlier than B in downstream direction. if B catch boat

A in 3 hours then, find boat B takes how much time to cover 120 km distance each in downstream and in upstream.

- A. 16 hours
- B. 18 hours
- C. 20 hours
- D. 14 hours
- E. 12 hours

Correct Answer: Option A

5) A man travels 370 km partly by train and partly by car. if he covers 250 km by train and rest by car, it takes him 4 hours. But, if he travels 130 km by train and rest by car, he takes 18 minutes longer. Find the speed of the train?

- A. 100 Km/hr
- B. 60 km/hr
- C. 20 km/hr
- D. 80 km/hr
- E. None of these

Correct Answer: Option A

6) Amar can do a work in 24 days, Bhushan is 20% more efficient than Amar, If Chetan can do the work in 10 more days than Bhushan, find the number of days taken by Amar & Chetan together to complete the work.

- A.  $20/3$  days
- B.  $44/3$  days
- C.  $40/3$  days
- D. 6 days
- E. None of these

Correct Answer: Option C

7) A cistern has 3 pipes A, B & C. Pipes A & B can fill it in 3 hours and 4 hours respectively, while pipe C can empty the completely filled cistern in 1 hour. if the pipes are opened in order at 3 pm, 4 pm and 5 pm respectively then at what time will the cistern be empty?

- A. 6:15 pm
- B. 7:12 pm
- C. 8:12 pm

- D. 8:35 pm  
E. none of these

Correct Answer: Option B

8) If the length of a rectangle is decreased by 6cm we get a square and the area of the square formed is 252 cm square less than the area of the square formed when the breadth of the original rectangle is increased by 6 cm. Find the perimeter of the rectangle.

- A. 42 cm  
B. 88 cm  
C. 80 cm  
D. 84 cm  
E. 72 cm

Correct Answer: Option D

9) There are 3 taps A, B, & C which can fill a tank in 12 hrs, 15 hrs, and 30 hrs respectively. If the tap A is opened first, after one-hour tap B was opened and after 2 hours from the start of A, tap C is also opened. Find the time in which the tank is full.

- A.  $6\frac{2}{11}$  hours  
B.  $6\frac{3}{11}$  hours  
C.  $5\frac{3}{11}$  hours  
D.  $5\frac{2}{11}$  hours  
E. None of these

Correct Answer: Option A

10) The ratio of curved surface area and the total surface area of the right circular cylinder is in the ratio of 3:5. The Curved surface area of the cylinder is 1848 cm square. Find the height of the cylinder(cm).

- A. 12  
B. 28  
C. 14  
D. 7  
E. 21

Correct Answer: Option E

(Directions for Qs 11-14) What will come in the place of question mark (?) of the following missing series?

11) 2, 11, 36, 85, ?, 287

- A. 163  
B. 166  
C. 170  
D. 185  
E. 208

Correct Answer: Option B

12) 250, ?, 190, 167, 148, 13

- A. 160  
B. 220  
C. 219  
D. 188  
E. 210

Correct Answer: Option C

13) 10, 6, 8, 15, 34, ?

- A. 95  
B. 90  
C. 110  
D. 75  
E. 85

Correct Answer: Option B

14) 1050, 420, 168, 67.2, 26.88, 10.752, ?

- A. 4.3012  
B. 4.3008  
C. 26.880  
D. 10.088  
E. 29.760

Correct Answer: Option B

15) Which of the following is the wrong term in the series?

32, 18, 10.8, 6.48, 3.888

- A. 32  
B. 18  
C. 10.8  
D. 6.42  
E. 3.888

Correct Answer: Option A

(For Q16-18) What value should come in place of question mark (?) in the following question?

16)  $345 + \sqrt{?} = 192 + 27 \times 8 \div 24$

- A. 625
- B. 365
- C. 246
- D. 235
- E. 258

Correct Answer: option A

17)  $150\%$  of  $460 + 24\%$  of  $650 = ?$

- A. 854
- B. 846
- C. 895
- D. 825
- E. 864

Correct Answer: option B

18)  $(23 \times 8) - (13 \times 5) + 67 = ? \times 6$

- A. 21
- B. 31
- C. 41
- D. 33
- E. None of these

Correct Answer: Option B

19) The price of 10 chairs is equal to that of 4 tables. The price of 15 chairs and 2 tables together is Rs. 4000. The total price of 12 chairs and 3 tables is:

- A. Rs. 3500
- B. Rs. 3750
- C. Rs. 3840
- D. Rs. 3900

Correct Answer: Option D

20) One-third of Rahul's savings in the Fixed Deposit is equal to one-half of his savings in the Mutual Fund. If he has Rs. 1,50,000 as total savings, how much has he saved in Mutual Fund?

- A. Rs. 30,000
- B. Rs. 50,000
- C. Rs. 60,000
- D. Rs. 90,000

Correct Answer: Option C

21) Amir fires 5 shots to Bhushan's 3 but Amir kills only once in 3 shots while Bhushan kills

once in 2 shots. When Bhushan has missed 27 times, Amir has killed:

- A. 30 birds
- B. 60 birds
- C. 72 birds
- D. 90 birds

Correct Answer: option A

22)  $1193.987 + 1405.01 - 1324.32 + 147.96 - 884.98 + 21.03 - 123.88 = ?$

- A. 405
- B. 415
- C. 425
- D. 435

Correct Answer: option D

23)  $29.9\%$  of  $695 + 24.48\%$  of  $179 - 11.1\%$  of  $899 = ?$

- A. 125
- B. 135
- C. 155
- D. 145

Correct Answer: Option C

24)  $25^{6.5} \times 25^{12.25} = 25^{21-?}$

- A. 2.20
- B. 2.25
- C. 2.5
- D. 3
- E. None of These

Correct Answer: Option B

25)  $[(2211 \div 67)^2 - 21 \times \sqrt{256}] \div (549 - 213) = ? \div 1344$

- A. 3052
- B. 3032
- C. 3042
- D. 3062
- E. 3012

Correct Answer: Option E

What value should come in the place of question mark (?) in the following number series?

26) 6, 5, 7, 12.5, 27, ?

- (A) 68  
(B) 69.5  
(C) 74.2  
(D) 72.5  
(E) 71

Correct Answer: Option B

27) 11, 29, 65, 137,?, 569

- A) 320  
(B) 259  
(C) 263  
(D) 300  
(E) 281

Correct Answer: Option E

28) 45, 49, 40, 56, 31,?

- (A) 67  
(B) 90  
(C) 35  
(D) 75  
(E) 81

Correct Answer: Option A

29) 1240, 1140, 1019, 875, 706,?

- (A) 510  
(B) 439  
(C) 498  
(D) 428  
(E) None of These

Correct Answer: Option A

30) 9827, 9706, 9606, 9525, 9461,?

- (A) 9520  
(B) 9421  
(C) 9412  
(D) 9425  
(E) None of these

Correct Answer: Option C

Read the following information carefully and answer the questions that follow: The data in the given table is the number of Notebooks sold by five sellers on five different days of the week. Study the given data carefully and answer the given questions based on it.

	Monday	Tuesday	Wednesday	Thursday
A	35	45	30	70
B	45	55	90	35
C	75	35	65	55
D	60	30	45	40
E	85	40	85	65

31) If the sale of Notebooks from E on Friday was 60% of that on Wednesday and Thursday together. Find the number of Notebooks sold by E on Friday.

- A. 20  
B. 30  
C. 40  
D. 50  
E. 90

Correct Answer: Option E

32) What is the approximate percentage increase in the sale of Notebooks by seller A from Monday to Tuesday?

- A. 19%  
B. 29%  
C. 39%  
D. 49%  
E. 59%

Correct Answer: Option B

33) The number of Notebooks sold by seller B on Monday is how much more/less than that on Thursday and Wednesday together?

- A. 20  
B. 40  
C. 60  
D. 80  
E. 100

Correct Answer: Option D

34) What is the ratio of the number of Notebooks sold by A and D on Monday and C and B on Tuesday?

- A. 10:11
- B. 11:10
- C. 19:18
- D. 18:19
- E. 20:19

Correct Answer: Option C

35) The number of Notebooks sold by C on Tuesday is approximately how much percent less than the number of Notebooks sold by D on Monday.

- A. 42%
- B. 49%
- C. 54%
- D. 62%
- E. 73%

Correct Answer: Option A

36) 2 pipes can fill a tank in 10 and 20 hours respectively and one leak can empty the same tank in 40 hours. If all these 3 are active/opened, then find the total time needed to fill the tank.

- A. 8 hours
- B. 4 hours
- C. 6 hours
- D. 2 hours
- E. 10 hours

Correct Answer: Option A

37) An article was sold at Rs. 1080 after giving two successive discounts of 10% and 20%. The cost price of the article was Rs. 900. Find the difference between the Marked price and the Cost price of the article.

- A. 200
- B. 300
- C. 600
- D. 500
- E. 400

Correct Answer: Option C

38) 108 liters pure milk in a can. 36 liters milk taken out; the same amount of water added.

Now 15 liters of mixture taken out, and 7 liters of water added. Water constitutes what % of the total mixture now?

- A. 26%
- B. 33%
- C. 45%
- D. 38%
- E. 52%

Correct Answer: Option D

39) Side of square having perimeter 64 cm is equal to the breadth of rectangle having area 320 sq. cm. Find the perimeter of the rectangle.

- A. 24 cm
- B. 48 cm
- C. 72 cm
- D. 100 cm
- E. 115 cm

Correct Answer: Option C

40) A father said to his son, "I was as old as you are at the present at the time of your birth". If the father's age is 38 years now, the son's age five years back was:

- A. 14 years
- B. 19 years
- C. 33 years
- D. 38 years

Correct Answer: Option A

41) Q is as much younger than R as he is older than T. If the sum of the ages of R and T is 50 years, what is definitely the difference between R and Q's age?

- A. 1 year
- B. 2 years
- C. 25 years
- D. Data inadequate
- E. None of these

Correct Answer: Option D

42) A, B, C subscribe Rs. 50,000 for a business. A subscribes Rs. 4000 more than B and B Rs. 5000 more than C. Out of a total profit of Rs. 35,000, A receives:



- A. Rs. 8400
- B. Rs. 11,400
- C. Rs. 14,700
- D. Rs. 13,700

Correct Answer: Option C

43) How many workers are required for completing the construction work in 10 days?

- I. 20% of the work can be completed by 8 workers in 8 days.
- II. 20 workers can complete the work in 16 days.
- III. One-eighth of the work can be completed by 8 workers in 5 days.

- A. I only
- B. II and III only
- C. III only
- D. I and III only
- E. Anyone of the three

Correct Answer: Option E

44) A train of length 130 m passes a bridge in 30 seconds. If the speed of the train is 45km/hr, then what is the length of the bridge?

- A. 245 m
- B. 185 m
- C. 225 m
- D. 195 m
- E. 230 m

Correct Answer: Option A

45) The difference between Compound Interest and Simple Interest on a sum of Rs. 3125 for 2 years at 4% per annum is

- A. Rs.10
- B. Rs.8
- C. Rs.4
- D. Rs. 5
- E. Rs. 7

Correct Answer: Option D

46) A shopkeeper bought 100 kg of rice for Rs. 1800 and sold it to make profit which was equal to the selling price of 20 kg of rice. What is the selling price of rice per kg?

- Rs. 25
- Rs. 22.5
- Rs. 24
- Rs. 20
- Rs. 26

Correct Answer: Option B

47) In 10 years time, Ram will be 2 times older than his son. 5 years ago, he was 9 times as old as his son. What will be the sum of the ages of Ram and his son 3 years from now?

- A. 46
- B. 66
- C. 86
- D. 76
- E. None of these

Correct Answer: Option B

48) In what ratio should two varieties of baking powder at Rs.80/kg and Rs. 120/ kg respectively, be mixed to make the mixture at Rs. 100/kg?

- A. 1:2
- B. 2:1
- C. 1:1
- D. 2:3
- E. None of these

Answer key: Option C

49) A man bought some apples of which 13% of them were rotten. He sold 75% of the balance and was left with 261 apples. How many apples did he have originally?

- A. 1800
- B. 1500
- C. 1200
- D. 1000
- E. 800

Correct Answer: Option C

50) A certain number of men complete a piece of work in 60 days. If there were 8 more men, the work could be finished in 10 days less. How many men were originally there?

- A. 30

- B. 50
- C. 60
- D. 80
- E. 40

Correct Answer: Option E

51) What is the sum of the value of profit shares of A, B, and C if A, B, C and D invested their money in the ratio 1:2:2:1 for a whole year and the profit at the end of the year is Rs 54,000?

- A. Rs. 40,000
- B. Rs. 36,000
- C. Rs. 45,000
- D. Rs. 30,000
- E. Rs. 42,000

Correct Answer: Option C

52) There are 9 sections of grade 10 in a school. The average number of students in 1st five sections is 46 and the average number of students in last five sections is 49 and the average of all sections is 48, then the number of students in 5th section is:

- A. 43
- B. 44
- C. 45
- D. 46
- E. 47

Correct Answer: Option A

53) A box contains 300 cards on which number from 0 to 299 is written. If a card is picked at random, then what is the probability that the number on card is divisible by 3 but not divisible by 6?

- A.  $\frac{1}{2}$
- B.  $\frac{1}{4}$
- C.  $\frac{1}{8}$
- D.  $\frac{1}{6}$
- E.  $\frac{1}{3}$

Correct Answer: Option D

54) John takes twice as much time as Jack to finish a job. Jack and Jim together take one-thirds of the time to finish the job than John takes working alone. Moreover, in order to finish

the job, John takes three days more than that taken by three of them working together. In how many days will Jim finish the job working alone?

- A. 4
- B. 5
- C. 6
- D. 7
- E. 8

Correct Answer: Option A

55) How many 3-digit numbers are there, for which the product of their digits is more than 2 but less than 7?

- A. 19
- B. 20
- C. 21
- D. 22
- E. 23

Correct Answer: Option C

56) Two persons are walking beside a railway track at respective speeds of 2 and 4 km per hour in the same direction. A train came from behind them and crossed them in 90 and 100 seconds, respectively. The time, in seconds, taken by the train to cross an electric post is nearest to

- A. 87
- B. 82
- C. 78
- D. 75
- E. 72

Correct Answer: Option B

57) A person spent Rs 50000 to purchase a desktop computer and a laptop computer. He sold the desktop at 20% profit and the laptop at 10% loss. If overall he made a 2% profit then the purchase price, in rupees, of the desktop is:

- A. 15000
- B. 17000
- C. 20000



- D. 22000
- E. 25000

Correct Answer: Option C

58) A straight road connects points A and B. Car 1 travels from A to B and Car 2 travels from B to A, both leaving at the same time. After meeting each other, they take 45 minutes and 20 minutes, respectively, to complete their journeys. If Car 1 travels at the speed of 60 km/hr, then the speed of Car 2, in km/hr, is

- A. 90
- B. 100
- C. 80
- D. 70
- E. 110

Correct Answer: Option A

59) Leaving home at the same time, Amal reaches office at 10: 15 am if he travels at 8 km/hr, and at 9: 40 am if he travels at 15 km/hr. Leaving home at 9: 10 am, at what speed, in km/hr, must he travel so as to reach office exactly at 10 am?

- A. 13
- B. 14
- C. 12
- D. 11
- E. 15

Correct Answer: Option C

60) A train travelled at one-thirds of its usual speed, and hence reached the destination 30 minutes after the scheduled time. On its return journey, the train initially travelled at its usual speed for 5 minutes but then stopped for 4 minutes for an emergency. The percentage by which the train must now increase its usual speed so as to reach the destination at the scheduled time, is nearest to

- A. 58
- B. 67
- C. 61

- D. 50
- E. 52

Correct Answer: Option 2

61) In a group of people, 28% of the members are young while the rest are old. If 65% of the members are literates, and 25% of the literates are young, then the percentage of old people among the illiterates is nearest to

- A. 62
- B. 55
- C. 66
- D. 59
- E. 70

Correct Answer: Option C

62) A gentleman decided to treat a few children in the following manner. He gives half of his total stock of toffees and one extra to the first child, and then the half of the remaining stock along with one extra to the second and continues giving away in this fashion. His total stock exhausts after he gives treats to 5 children. How many toffees were there in his stock initially?

- A. 56
- B. 58
- C. 60
- D. 62
- E. 64

Correct Answer: Option D

63) Let A, B and C be three positive integers such that the sum of A and the mean of B and C is 5. In addition, the sum of B and the mean of A and C is 7. Then the sum of A and B is:

- A. 6
- B. 5
- C. 7
- D. 4
- E. 8

Correct Answer: Option A

64) A solution, of volume 40 litres, has dye and water in the proportion 2:3. Water is added to the solution to change this proportion to 2:5. If one-fourths of this diluted solution is taken out, how many litres of dye must be added to the remaining solution to bring the proportion back to 2:3?

- A. 6
- B. 8
- C. 10
- D. 12
- E. 14

Correct Answer: Option B

65) In a car race, car A beats car B by 45 km, car B beats car C by 50 km, and car A beats car C by 90 km. The distance (in km) over which the race has been conducted is

- A. 500
- B. 475
- C. 550
- D. 450
- E. 400

Correct Answer: Option D

66) In the final examination, Bishnu scored 52% and Asha scored 64%. The marks obtained by Bishnu is 23 less, and that by Asha is 34 more than the marks obtained by Ramesh. The marks obtained by Geeta, who scored 84%, is

- A. 439
- B. 399
- C. 357
- D. 417
- E. 499

Correct Answer: Option B

67) Anil, Sunil, and Ravi run along a circular path of length 3 km, starting from the same point at the same time, and going in the clockwise direction. If they run at speeds of 15 km/hr, 10 km/hr, and 8 km/hr, respectively, how much distance in km will Ravi have run when Anil and

Sunil meet again for the first time at the starting point?

- A. 4.2
- B. 5.2
- C. 4.8
- D. 4.6
- E. 5.0

Correct Answer: Option C

68) Amala, Bina, and Gouri invest money in the ratio 3: 4: 5 in fixed deposits having respective annual interest rates in the ratio 6: 5: 4. What is their total interest income (in Rs) after a year, if Bina's interest income exceeds Amala's by Rs 250?

- A. 6350
- B. 7250
- C. 7000
- D. 6000
- E. 6750

Correct Answer: Option B

69) On selling a pen at 5% loss and a book at 15% gain, Karim gains Rs. 7. If he sells the pen at 5% gain and the book at 10% gain, he gains Rs. 13. What is the cost price of the book in Rupees?

- A. 80
- B. 85
- C. 95
- D. 100
- E. 105

Answer: Option A

70) A sum of money doubles itself at CI in 10yrs. In how many yrs will it become 4 times?

- A. 10yrs
- B. 20yrs
- C. 15yrs
- D. 22yrs

Correct Answer: Option B

(Q71 – 74) The table shows the total no. of emails received in inbox by different users and the percentage of emails read by the users and the total no. of emails received in a month.

Note:

Total no. of mails received = total mails received in inbox + total no. of spam emails received.

Spam mails are not read by users.

Users	Total No. of Mails Received in Inbox	% of Inbox Mails Read by the Users	Total No. of Spam-Mails Received
X	725	68%	88
Y	840	65%	82
Z	800	-	152
K	-	45%	92
L	580	-	76

71. Inbox mails read by user Z is what percentage of total mails received in inbox of Z given that inbox mails read by user Z is 125% of total spam mails received by user K?

- A. 14.375%
- B. 19.25%
- C. 24.125%
- D. None
- E. 11.215%

Correct Answer: Option A

72. Average no. of emails received in inbox by user X, Y & K is 750% of average no. of spam mail received by user X, Y & K. Then find the total no. of mails received by user K?

- A. 492
- B. 528
- C. 426
- D. 482
- E. None of these

Correct Answer: Option A

73. Total no. of mails received by K is approximately what percentage of inbox emails read by user X given that mails received in the inbox by K is thrice of mails received in spam by K?

- A. 54%
- B. 62%
- C. 78%
- D. 68%
- E. 72%

Correct Answer: Option E

74. No. of inbox emails which are not read by user Z is 150% more than emails received in spam by user X. Then, find the average of inbox emails read by the user Z & Y?

- A. 678
- B. 618
- C. 425
- D. 563
- E. 589

Answer: Option D

(Q75-76)

Upstream Distance = Downstream Distance, if not stated

Total time taken = Time (Downstream) + Time (Upstream)

Days	Upstream distance in km	Speed of the boat (km/h)	Speed of the stream (Km/hr)	Total Time in hour
Mon	320	-	4	-
Tues	-	-	-	75
Wed	270	-	6	-
Thur	-	11	7	-
Fri	324	-	-	72

75. On Friday, if the ratio of the speed of the boat to the speed of the stream is 2:1, what is the difference between the time taken by the boat to go upstream and the time taken by the boat to go downstream?

- A. 36 hours
- B. 54 hours
- C. 45 hours
- D. 72 hours
- E. 65 hours

Correct Answer: Option A

76. On Thursday, the difference between the time taken by the boat to cover X km upstream and (X+120) Km downstream is 26 hours. Had the boat covered same distance upstream as downstream, what would be the difference in time taken then?

- A. 58 hours
- B. 62 hours
- C. 48 hours
- D. 56 hours
- E. 64 hours

Correct Answer: Option D

Directions for Questions (77 - 81): Study the following table carefully to answer the questions that follow:

Amount earned (in lacs) by five persons in six different years

Year	Person				
	A	B	C	D	E
2005	2.24	4.33	5.64	3.73	1.69
2006	1.44	3.34	6.93	5.52	5.52
2007	4.63	2.79	7.52	5.68	4.28
2008	6.65	6.63	5.83	6.74	6.83
2009	5.34	4.50	5.94	8.42	5.53
2010	7.38	5.36	7.84	9.45	9.94

77. What was the average of the earning of Person-B in the year 2006, that of person C in the year 2008 and E in the year 2005 together?

- A. Rs. 3.62 lacs
- B. Rs. 2.64 lacs
- C. Rs. 3.64 lacs
- D. Rs.10.86 lacs
- E. None of these

Correct Answer: Option A

78. What was the respective ratio between the amount earned by Person-B in the year 2007 and Person- D in the year 2010?

- A. 32:107
- B. 31:105
- C. 29:107
- D. 32:105
- E. None of these

Correct Answer: Option B

79. What is the approximate percent increase in the amount earned by Person-D in the year 2010 as compared to the previous year?

- A. 7
- B. 21
- C. 18
- D. 15
- E. 12

Correct Answer: Option E

80. Whose earning increased consistently from the year 2005 to the year 2010?

- A. A
- B. B
- C. C
- D. D
- E. E

Correct Answer: Option D

81. Total amount earned by Person A in the year 2006 and Person-C in the year 2010 together was approximately what percent of the amount earned by Person-E in the year 2009?

- A. 151
- B. 155
- C. 168
- D. 174
- E. 162

Correct Answer: Option C

82. Ramesh and Gautam are among 22 students who write an examination. Ramesh scores 82.5. The average score of the 21 students other than Gautam is 62. The average score of all the 22 students is one more than the average score of the 21 students other than Ramesh. The score of Gautam is

- A. 49
- B. 48
- C. 51
- D. 53
- E. 52

Correct Answer: Option C

83. At their usual efficiency levels, A and B together finish a task in 12 days. If A had worked half as efficiently as she usually does, and B had worked thrice as efficiently as he usually does, the task would have been completed in 9 days. How many days would A take to finish the task if she works alone at her usual efficiency?

- A. 24
- B. 18
- C. 12
- D. 36
- E. 32

Correct Answer: Option B

84. The product of two positive numbers is 616. If the ratio of the difference of their cubes to the cube of their difference is 157:3, then the sum of the two numbers is

- A. 58
- B. 50
- C. 95
- D. 85
- E. 75

Correct Answer: Option B

85. The wheels of bicycles A and B have radii 30 cm and 40 cm, respectively. While traveling a certain distance, each wheel of A required 5000 more revolutions than each wheel of B. If bicycle

B traveled this distance in 45 minutes, then its speed, in km per hour, was

- A.  $18\pi$
- B.  $12\pi$
- C.  $16\pi$
- D.  $14\pi$
- E.  $20\pi$

Correct Answer: Option B

86. A solid right circular cone of height 27 cm is cut into two pieces along a plane parallel to its base at a height of 18 cm from the base. If the difference in volume of the two pieces is 225 cc, the volume, in cc, of the original cone is

- 1. 232
- 2. 256
- 3. 264
- 4. 243
- 5. 275

Correct Answer: Option D

87. If perimeter of the base of a cylinder is 66 cm. Then find volume of cylinder if height of cylinder is 0.04 m

- A.  $1111 \text{ cm}^3$
- B.  $1386 \text{ cm}^3$
- C.  $2046 \text{ cm}^3$
- D.  $1186 \text{ cm}^3$
- E.  $2002 \text{ cm}^3$

Correct Answer: Option B

Direction (88–92): Solve the given quadratic equations and mark the correct option based on your answer.

- A. if  $x > y$
- B. if  $x \geq y$
- C. if  $x < y$
- D. if  $x \leq y$
- E. if  $x = y$  or no relationship can be established between  $x$  and  $y$

88.

I.  $x^2 - 14x + 45 = 0$

II.  $y^2 - 18y + 72 = 0$

Correct answer: Option E

89.

I.  $x^2 + 7x + 12 = 0$

II.  $y^2 + 9y + 20 = 0$

Correct answer: Option B

90.

I.  $4x^2 - 7x + 3 = 0$

II.  $7y^2 - 17y + 6 = 0$

Correct answer: Option E

91.

I.  $2x^2 - 19x + 45 = 0$

II.  $2y^2 - 9y + 4 = 0$

Correct answer: Option A

92.

I.  $x^2 = 144$

II.  $(y + 12)^2 = 0$

Correct answer: Option B

93. The perimeter of a triangle is equal to perimeter of a rectangle. Length of rectangle is 75% of side of a square and ratio of length to breadth of rectangle is 3: 2. If difference between perimeter of square and that of rectangle is 36 cm, then find perimeter of triangle?

- A. 60 cm
- B. 48 cm
- C. 72 cm
- D. 80 cm
- E. 96 cm

Correct Answer: Option A

Directions. Q (94-98) Study the following information and answer the questions given

below in a school, there are 700 students. All of them are divided into five different Batches namely viz., Jasmine, Rose, Sunflower, Lotus and Lily. The number of girls is 12 less than the number of boys in school. One fourth of the total number of students in that school are in Sunflower. 16% of the total number of students in that school are in Jasmine. Lily have 28 more students than in Jasmine. The respective ratio between the number of girls and boys in Jasmine is 1:3. Number of students in Lotus is 11 more than the number of students in Jasmine. There are equal number of boys and girls in Lily. 44% of the number of students in Rose are boys. Two-third of the students in Lotus are girls.

94. What is the respective ratio between the number of students in Rose and the number of students in Lotus?

- A. 41:50
- B. 50:43
- C. 43:50
- D. 50:41
- E. None of these

Correct Answer: Option D

95. Total number of girls in Jasmine and Lotus together are how many more/less than the total number of boys in Rose and Sunflower together?

- A. 50
- B. 61
- C. 48
- D. 71
- E. None of these

Correct Answer: Option E

96. What is the respective ratio between the number of girls in Rose and the number of boys in Lily?

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



Correct Answer: Option B

97. Number of boys in Sunflower is approximately what percentage of the total number of girls in the school?

- A. 28%
- B. 21%
- C. 35%
- D. 72%
- E. None of these

Correct Answer: Option A

98. What is the total number of students in Jasmine, Sunflower and Lotus together?

- A. 409
- B. 420
- C. 410
- D. 459
- E. None of these

Correct Answer: Option C

99. The perimeter of a square is equal to twice the perimeter of a rectangle of length 11m and breadth is 10m

Quantity I: The circumference of a semicircle whose diameter is equal to the side of the square.

Quantity II: The circumference of a semicircle whose radius is 14m

- 1. Quantity I > Quantity II
- 2. Quantity I < Quantity II
- 3. Quantity I  $\geq$  Quantity II
- 4. Quantity I  $\leq$  Quantity II
- 5. Quantity I = Quantity II or No relation can be established

Correct Answer: Option B

100. Five years ago, A's age was three times that of B. Ten years ago, A's age was half that of C. C's present age is 36 years.

Quantity I: Difference between C's age and A's age

Quantity II: B's present age

- 1. Quantity I > Quantity II
- 2. Quantity I < Quantity II
- 3. Quantity I  $\geq$  Quantity II
- 4. Quantity I  $\leq$  Quantity II
- 5. Quantity I = Quantity II or No relation can be established

Correct Answer: Option A

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