

Bank Po Exams

RBI Officer QUANTITATIVE APTITUDE Solved Paper 2010

Directions (Qs. 1 to 4) : in each these questions, a number series is given. After the series a number is given followed by (a), (b), (c), (d) and (e). You have to complete the series starting with the number given, following the sequence of the original series to answer the question following both the series :

1. 16 24 36 54 81 121.5

14 (a) (b) (c) (d) (e)

what will come in place of (b) ?

- (1) 34
- (2) 31.5
- (3) 30.5
- (4) 32
- (5) None of these

Ans: (2) 31.5

2. 7 15 31 63 127 255

4 (a) (b) (c) (d) (e)

What will come in place of (c) ?

- (1) 81
- (2) 92
- (3) 74
- (4) 66
- (5) None of these

Ans: (5) None of these

3. 6 18 36 108 216 648

2 (a) (b) (c) (d) (e)

What will come in place of (e) ?

- (1) 482
- (2) 344
- (3) 216
- (4) 420
- (5) None of these

Ans: (3) 216

4. 4 3 16 9 256 81

6 (a) (b) (c) (d) (e)

What will come in place of (d) ?

- (1) 872
- (2) 948
- (3) 1145

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- (4) 1296
 - (5) None of these
- Ans: (4) 1296

5. A tap can completely fill a water tank in 8 hours. The water tank has a hole in it through which the water leaks out. The leakage will cause the water tank to get empty in 12 hours. How much time will it take for the tap to fill the water completely in the tank with the hole?

- (1) 16 hours
 - (2) 29 hours
 - (3) 24 hours
 - (4) 18 hours
 - (5) None of these
- Ans: (3) 24 hours

6. On the children's day, chocolates were to be equally distributed among 250 children. But on that day, 75 children were absent. Thus each student got 3 chocolates extra. How many chocolates were distributed in all ?

- (1) 2520
 - (2) 1750
 - (3) 1550
 - (4) 2500
 - (5) None of these
- Ans: (2) 1750

7. Seven kg of sugar was available for Rs. 84 last year. If this year, nine kg of sugar is available for Rs. 135, then how much is the percentage increase in the price of sugar?

- (1) 15
 - (2) 30
 - (3) 20
 - (4) 25
 - (5) None of these
- Ans: (4) 25

8. Mr. Patkar earns Rs. 10,000 per month. Every year, he spends 18 per cent of his annual income on buying clothes. How much money does Mr. Patkar spend every month on buying clothes ?

- (1) Rs. 1,500
 - (2) Rs. 1,750
 - (3) Rs. 2,500
 - (4) Rs. 2,250
 - (5) None of these
- Ans: (5) None of these

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9. The number of students studying Physics, Chemistry and Zoology in a college in the year 2003 were in the ratio 4 : 3 : 5 respectively. If the number in these three disciplines increased by 50%, 25% and 10% respectively in the year 2004, then what was the new respective ratio?

- (1) 24 : 15 : 22
- (2) 18 : 11 : 13
- (3) 24 : 13 : 17
- (4) Cannot be determined
- (5) None of these

Ans: (1) 24 : 15 : 22

10. Prasad's monthly income is 25% more than that of Anam. Anam's monthly income is 75% less than that of Bhushan. If the difference between the monthly incomes of Prasad and Bhushan is Rs. 26, 125, then what is Anam's monthly income ?

- (1) Rs. 8,000
- (2) Rs. 16,000
- (3) Rs. 9,500
- (4) Data inadequate
- (5) None of these

Ans: (3) Rs. 9,500

11. The price of 5 chairs and 3 tables is Rs. 15015.20. Approximately, what will be the price of 9 tables and 15 chairs ?

- (1) Rs. 50,000
- (2) Rs. 37,000
- (3) Rs. 45,000
- (4) Rs. 40,000
- (5) None of these

Ans: (3) Rs. 45,000

12. Three-fourth of two-third of five-seventh of a number is 15. What is half of that number ?

- (1) 21
- (2) 26
- (3) 42
- (4) 25
- (5) None of these

Ans: (1) 21

13. Riya and Mita can independently complete a piece of work in 15 minutes and 10 minutes respectively. If they work together, then how much time will they take to complete that piece of work?

- (1) 4 minutes
- (2) 9 minutes
- (3) 6 minutes

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- (4) 8 minutes
 - (5) None of these
- Ans: (3) 6 minutes

14. Kumar borrowed Rs. 6,500 from Devang on simple interest. After 4 years, Kumar paid back Devang. Rs. 2,080 more than what he had borrowed. What was the rate of interest per annum ?

- (1) 6%
- (2) 8%
- (3) 12%
- (4) 7%
- (5) None of these

Ans: (2) 8%

15. 50% of a number is 39 more than 35% of the same number. What is 115 percent of that number ?

- (1) 179
- (2) 299
- (3) 85
- (4) 215
- (5) None of these

Ans: (2) 299

16. The average age of 82 students and the class teacher is 18. The total age of only the students is 1450. What is the class teacher's age ?

- (1) 37
- (2) 40
- (3) 48
- (4) Data inadequate
- (5) None of these

Ans: (5) None of these

17. The average marks obtained by Amit in English and History is 95. The average marks obtained by him in English and Science is 87. What is the difference between the marks obtained by him in History and Science ?

- (1) 20
- (2) 40
- (3) 12
- (4) 16
- (5) None of these

Ans: (5) None of these

18. The total of the present ages of A and B together is 12 years more than the total of the present ages of B and C together. C is how many years younger than A ?

- (1) 12

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- (2) 24
- (3) Data inadequate
- (4) C is older than A
- (5) None of these

Ans: (1) 12

Directions (Qs. 19 to 23) : In each of these questions, a question is followed by the information given in the three statements. You have to study the question along with the statements to decide that the information given in which of the statement(s) is necessary to answer the given question :

19. What is the speed of the current ?

I. Speed of the boat is 4 km/hr in still water.

II. Boat runs at a speed of 6 km/hr downstream.

III. The difference between the speeds of the boat while traveling in still water and downstream is 2 km/hr.

- (1) Only I and II
- (2) Only III
- (3) Either I & II together or only III
- (4) Only I and either II or III
- (5) Any one of the three

Ans: (3) Either I & II together or only III

20. What was the amount of profit earned ?

I. 8% discount was offered on the labeled price.

II. Had there been no discount then profit would have been 29%

III. Selling price was more than the cost price by 16%

- (1) I and either II or III
- (2) Any two of the three
- (3) All I, II and III
- (4) Either I or II and III
- (5) Question cannot be answered even with the information given in all the three statements

Ans: (5) Question cannot be answered even with the information given in all the three statements

21. What is Amar's present salary?

I. The salary increases every year by 12%.

II. His salary at the time of joining was Rs. 3,500.

III. He had joined exactly 7 years ago.

- (1) II and III only
- (2) All I, II and III
- (3) I and II only
- (4) I and III only

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(5) None of these

Ans: (2) All I, II and III

22. What is the total strength of the college ?

I. 45% of the students are studying Commerce only.

II. 1543 students are studying disciplines other than Arts.

III. 1375 students are studying disciplines other than Commerce.

(1) Only I and III

(2) Only II and III

(3) Only I

(4) Only III

(5) None of these

Ans: (1) Only I and III

23. What is the rate of simple interest per annum ?

I. An amount of Rs. 7,500 increases by Rs. 1,125 at the end of the year.

II. The principal amount of Rs. 6,000 increases by three times in 20 years.

III. Interest accrued on an amount of Rs. 5,200 in 3 years is Rs. 2,340.

(1) Either I and II or III only

(2) Only III

(3) Only I

(4) Any one of the three

(5) None of these

Ans: (4) Any one of the three

Directions (Qs. 24 to 28) : Study the following table carefully to answer these questions :

Year	1997	1998	1999	2000	2001	2002
School						
A	25	80	50	30	15	75
B	30	35	45	25	60	85
C	65	60	55	40	75	75
D	80	3	20	95	70	55
E	10	25	75	65	70	90
F	55	55	95	88	85	90

24. If the total number of students appearing in SSC from School C in the year 2001 was 1204, then what was the number of students passed ?

(1) 900

(2) 897

(3) 905

(4) 850

(5) None of these

Ans: (5) None of these

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25. What is the ratio of the number of students passing SSC from School A to that of School E in the year 1999, if the number of students appeared was 2914 and 604 from School A and E respectively in that year ?

- (1) 1457 : 453
- (2) 1450 : 457
- (3) 1277 : 527
- (4) 1834 : 627
- (5) None of these

Ans: (1) 1457 : 453

26. What is the percentage increase/decrease in the number of students passing SSC from School F in the year 2000 from the previous year ?

- (1) 10
- (2) 65
- (3) 17
- (4) Cannot be determined
- (5) None of these

Ans: (4) Cannot be determined

27. If the number of students passing SSC from School D in the year 1997 was 1840, then how many students had appeared in SSC from that School in the same year ?

- (1) 2500
- (2) 2300
- (3) 1900
- (4) 2800
- (5) None of these

Ans: (2) 2300

28. If the number of students appeared in SSC from School B in the year 1997, 1998 and 2002 is 980, 2540 and 1200 respectively, then what is the total number of students passed in those years ?

- (1) 2503
- (2) 2105
- (3) 2203
- (4) 2315
- (5) None of these

Ans: (3) 2203

Directions (Qs. 29 to 32) : Study the following graph carefully to answer these questions :
NUMBER OF STUDENTS PREFERRING DIFFERENT BEVERAGES FROM 5 COLLEGES .

29. Which of the colleges has the highest percentage of students preferring Coffee over the total of students in the college ?

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- (1) A
- (2) B
- (3) C
- (4) D
- (5) E

Ans: (3) C

30. Total number of students preferring Tea from all the colleges together is what percent of the total number of students from all the colleges together ?

- (1) 32
- (2) 47
- (3) 51
- (4) 24
- (5) None of these

Ans: (5) None of these

31. What is the total number of students preferring Cola from all the colleges together ?

- (1) 2100
- (2) 1900
- (3) 2400
- (4) 1500
- (5) None of these

Ans: (5) None of these

32. What is the ratio between the number of students preferring Tea and Cola together from college D to the students preferring Coffee and Cola together from College E ?

- (1) 7 : 6
- (2) 4 : 5
- (3) 6 : 7
- (4) 5 : 4
- (5) None of them

Ans: (4) 5 : 4

Directions (Qs. 33 to 37) : Study the following table carefully to answer these questions :

NUMBER OF ARTICLES (IN THOUSANDS) MANUFACTURED (M) AND DEFECTIVE (D) BY 5 UNITS OF A COMPANY OVER THE YEARS

Year UNIT

I II III IV V

M D M D M D M D M D

1996	53	21	45	12	76	38	56	21	46	18
1997	49	18	32	10	45	24	63	24	36	14
1998	50	18	48	18	55	16	68	30	34	15
1999	65	20	68	15	57	2	54	19	48	12
2000	70	31	72	13	82	22	48	27	58	10
2001	44	15	56	22	38	32	40	15	60	11

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33. During which year the largest percentage of the article was defective out of the articles manufactured by Unit IV ?

- (1) 1996
- (2) 1997
- (3) 1998
- (4) 1999
- (5) 2000

Ans: (5) 2000

34. What is the average number of defective items from Unit II for the given years ?

- (1) 21,500
- (2) 17,000
- (3) 12,500
- (4) 15,000
- (5) None of these

Ans: (4) 15,000

35. What is the ratio between the total number of articles manufactured by Unit III to that by Unit V for all the years together ?

- (1) 353 : 282
- (2) 282 : 353
- (3) 457 : 215
- (4) 215 : 457
- (5) None of these

Ans: (1) 353 : 282

36. What was the percentage (rounded off to the nearest integer) of the defective articles over the number of articles manufactured by all the Units together in the year 2001?

- (1) 42
- (2) 40
- (3) 37
- (4) 33
- (5) None of these

Ans: (2) 40

37. During which year, there was the percentage increase / decrease in manufacture from the previous year, the highest, for Unit I?

- (1) 1998
- (2) 2001
- (3) 1999
- (4) 1997
- (5) None of these

Ans: (2) 2001

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