



Memory Based Model Mock Paper Based on 8th December 2018

(Quantitative Aptitude)



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Directions (1-5): What value should come in the place of question mark in the given series?

1) 9 45 180 540 1080 ?

- a) 980
- b) 1080
- c) 1124
- D) 860
- e) None of these

2) 50 54 45 61 36 ?

- a) 68
- b) 71
- c) 74
- D) 72
- e) None of these

3) 1 6 25 76 153 ?

- a) 154
- b) 162
- c) 124
- D) 136
- e) None of these

4) 200 193 179 158 ? 95

- a) 120
- b) 110
- c) 90
- d) 130
- e) None of these

5) 3 43 81 115 143 ?

- a) 153
- b) 163
- c) 179
- d) 155

e) None of these

Directions (6-15): What value should come in the place of question mark in the given questions?

6) $3\frac{2}{5}$ of $5\frac{5}{17}$ + $5\frac{4}{13}$ * $2\frac{6}{23}$ = ?

- a) 32
- b) 35
- c) 20
- d) 25
- e) None of these

7) $\sqrt{(81\% \text{ of } 400/3 + 78\% \text{ of } 300/2)}$ = ?

- a) 20
- b) 10
- c) 12
- d) 15
- e) None of these

8) ?% of 300 + 45% of 440 = ?/7 of 63 – $3/17$ of 578

- a) 50
- b) 40
- c) 45
- d) 80
- e) None of these

9) $\sqrt{2401} + \sqrt{1024}$ = ?²

- a) 9
- b) 7
- c) 15
- d) 81
- e) None of these

10) $37750/50 + 41455/5 + 27540/20$ = ?

- a) 10250
- b) 10550

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- c) 10423
- d) 9923
- e) None of these

11) 63% of 210 + 47% of 310 – 30% of 175 =?

- a) 250
- b) 220
- c) 225.5
- d) 242.5
- e) None of these

12) ? of $\frac{3}{7}$ – 42% of 250 = 315

- a) 750
- b) 980
- c) 1050
- d) 500
- e) None of these

13) $\frac{7}{17}$ of $\frac{102}{133}$ of 304 =?

- a) 65
- b) 96
- c) 85
- d) 125
- e) None of these

14) $341.46 + 273.43 + 583.11 - 881 = ?$

- a) 325
- b) 317
- c) 295
- d) 525
- e) None of these

15) $\sqrt{?} - \frac{423}{9} * 13 + 11\% \text{ of } 5000 = \frac{1}{3} \text{ of } 57$

- a) 6400
- b) 80
- c) 4900
- d) 75
- e) None of these

16) Rs.25500 is divided among A, B and C. A gets Rs. 4000 more than B and C gets Rs. 8000 more than B. Find the ratio of amount received by A, B and C?

- a) 13: 7: 21
- b) 11: 15: 17
- c) 17: 9: 25
- d) 22: 17: 13
- e) None of these

17) A can do a piece of work in 20 days. B takes 6 days more than the twice the number of days taken by A and B working together. Find the number of days taken by B to work alone?

- a) 24 days
- b) 30 days
- c) 16 days
- d) 10 days
- e) None of these

18) A started a business with a capital of Rs.10000. After 3 months, B joined with x% of A's capital. At the end of the year, B received share of Rs.9000 out of the total profit Rs.25000. Find the value of x

- a) 60%
- b) 75%
- c) 40%
- d) 80%
- e) 72%

19) The distance between station A and B is 180 km. Train X starts from A and travels towards B with the speed of 40 km/hr and train Y starts from B and travels towards A with the speed of 50 km/hr. Find the distance travelled by train X after they crosses each other?

- a) 100 km
- b) 80 km
- c) 120 km
- d) 90 km

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e) None of these

20) A man can row 120 km along the stream and against the stream in 9 hours. Time taken to travel 40 km downstream is equal to the 20 km upstream.

Find the speed of the boat

- a) 30 km/hr
- b) 20 km/hr
- c) 15 km/hr
- d) 24 km/hr
- e) None of these

21) If the difference between Simple interest and Compound interest at the same rate of interest on Rs.20000 in two years is 450, then what is the rate of interest?

- a) 17%
- b) 12%
- c) 18%
- d) 15%
- e) None of these

22) A bag contains 12 blue balls and total of 8 yellow and pink balls. The probability of taking one yellow ball is $\frac{1}{4}$. Find the probability of taking two balls, both is pink?

- a) 5/191
- b) 13/190
- c) 17/190
- d) 23/190
- e) None of these

23) In a class 45 students boys and girls are in the ratio of 5: 4. The average age of boys is 36 years and a girl is 22.5 years. Find the average age of the class

- a) 24 yrs
- b) 28 yrs
- c) 25 yrs
- d) 16 yrs

e) 30 yrs

24) Hari sells an article at 20% profit. If he had bought it 20% less and sold it for Rs.40 more, he would have gained 75%. Find the cost price of an article?

- a) Rs.240
- b) Rs.200
- c) Rs.250
- d) Rs.280
- e) Rs.180

25) 20 women can do a piece of work in 12 days. If 20 women started working after 3 more days some women joined to complete the remaining work in 6 days. How many women joined after 3 days of the work started?

- a) 12
- b) 6
- c) 18
- d) 10
- e) 15

Directions (26-30): Study the following graph carefully and answer the given questions.

Number of women employed in five different departments of different companies.

Compan y	Departments			
	H R	Account s	Marketin g	Productio n
A	53	66	83	67
B	28	72	94	36
C	62	61	91	43
D	64	79	79	66
E	42	83	87	74

26) What is the difference between the total number of women in HR and that of in Accounts?

- a) 112

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- b) 231
- c) 275
- d) 265
- e) None of these

27) What is the ratio between the average number of women of all departments on company D and E?

- a) 132: 129
- b) 137: 142
- c) 121: 129
- d) 144: 143
- e) None of these

28) The number of women in Production department of Company E is approximately what percent of the number of women in marketing department of company B?

- a) 93%
- b) 105%
- c) 65%
- d) 79%
- e) 84%

29) The average number of women in company A in all the department is approximately what percentage the average number of women in company C in all the department?

- a) 210%
- b) 110%
- c) 105%
- d) 113%
- e) 125%

30) What is the total number of women working in the Production department of all companies together?

- a) 306
- b) 498
- c) 434
- d) 488

- e) None of these

Directions (31-35): In the following questions, two equations I and II are given. You have to solve both the equations and give answer as,.

31)

I) $6x^2 - 13x - 19 = 0$

II) $14y^2 + 27y + 9 = 0$

- a) If $x > y$
- b) If $x \geq y$
- c) If $x < y$
- d) If $x \leq y$
- e) If $x = y$ or the relation cannot be established.

32)

I) $2x^2 + 9x + 10 = 0$

II) $2y^2 - 7y - 22 = 0$

- a) If $x > y$
- b) If $x \geq y$
- c) If $x < y$
- d) If $x \leq y$
- e) If $x = y$ or the relation cannot be established.

33)

I) $16x^2 - 81 = 0$

II) $64y^2 - 100 = 0$

- a) If $x > y$
- b) If $x \geq y$
- c) If $x < y$
- d) If $x \leq y$
- e) If $x = y$ or the relation cannot be established.

34)

I) $x^2 - 28x + 187 = 0$

II) $y^2 + 7y + 12 = 0$

- a) If $x > y$
- b) If $x \geq y$
- c) If $x < y$

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- d) If $x \leq y$
 e) If $x = y$ or the relation cannot be established.

35)

I) $5x^2 - 37x + 32 = 0$

II) $5y^2 + 12y + 4 = 0$

- a) If $x > y$
 b) If $x \geq y$
 c) If $x < y$
 d) If $x \leq y$
 e) If $x = y$ or the relation cannot be established.

Answers

Directions (1-5):

1) Answer: B

Logic is *5, *4, *3, *2, *1.

$9 * 5 = 45$

$45 * 4 = 180$

$180 * 3 = 540$

$540 * 2 = 1080$

$1080 * 1 = 1080$

2) Answer: D

Logic is $+2^2$, -3^2 , $+4^2$, -5^2 , $+6^2$

$50 + 2^2 = 54$

$54 - 3^2 = 45$

$45 + 4^2 = 61$

$61 - 5^2 = 36$

$36 + 6^2 = 72$

3) Answer: A

Logic is $*5+1$, $*4+1$, $*3+1$

$1*5 + 1 = 6$

$6*4 + 1 = 25$

$25*3 + 1 = 76$

$76*2 + 1 = 153$

$153*1 + 1 = 154$

4) Answer: D

Logic is -7, $-7*2$, $-7*3$, $-7*4$

$200 - 7 = 193$

$193 - 14 = 179$

$179 - 21 = 158$

$158 - 28 = 130$

$130 - 35 = 95$

5) Answer: B

Logic is Difference of difference 2, 4, 6, 8

3	43	81	115	143	163
40	38	34	28	20	
	2	4	6	8	

6) Answer: E

$3(2/5) * 5(5/17) + 5(4/13) * 2(6/23) = ?$

$17/5 * 90/17 + 69/13 * 52/23 = 18 + 12 = 30$

7) Answer: D

$\sqrt{(81\% \text{ of } 400/3 + 78\% \text{ of } 300/2)} = ?$

$\sqrt{(81/100 * 400/3 + 78/100 * 300/2)} = ?$

$? = \sqrt{(108 + 117)} = 15$

8) Answer: A

$? * 300/100 + 45/100 * 440 = ?/7 * 63 - 3/17 * 578$

$\Rightarrow 198 + 102 = 9x - 3x$

$\Rightarrow X = 50$

9) Answer: A

$?^2 = 49 + 32 = 81$

$? = 9$

10) Answer: C

$37750/50 + 41455/5 + 27540/20 = ?$

$755 + 8291 + 1377 = 10423$

11) Answer: C

$210 * 63/100 + 310 * 47/100 - 175 * 30/100$

$= 132.3 + 145.7 - 52.5$

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$$= 225.5$$

12) Answer: B

$$? * \frac{3}{7} = 315 + 250 * \frac{42}{100}$$

$$? * \frac{3}{7} = 420$$

$$? = 980$$

13) Answer: B

$$\frac{7}{17} \text{ of } 102/133 \text{ of } 304 = ?$$

$$? = 304 * \frac{102}{133} * \frac{7}{17}$$

$$= 96$$

14) Answer: B

$$? = 341.46 + 273.43 + 583.11 - 881$$

$$= 1198 - 881 = 317$$

15) Answer: A

$$\sqrt{?} = 57 * \frac{1}{3} + 13 * \frac{423}{9} - 5000 * \frac{11}{100}$$

$$\sqrt{?} = 19 + 611 - 550 = 80$$

$$? = 6400$$

16) Answer: C

Let us take amount received by B = x

$$A = x + 4000$$

$$C = x + 8000$$

$$A + B + C = 25500$$

$$(x + 4000) + x + (x + 8000) = 25500$$

$$3x + 12000 = 25500$$

$$3x = 13500$$

$$x = 4500$$

Ratio of amount received by A, B and C =

$$(4000 + 4500) : 4500 : (4500 + 8000)$$

$$= 8500 : 4500 : 12500$$

$$= 85 : 45 : 125 = 17 : 9 : 25$$

17) Answer: B

Let us take the number of days taken by A and B together be x

According to the question,

$$\frac{1}{20} + \frac{1}{2x+6} = \frac{1}{x}$$

$$\frac{1}{20} = \frac{1}{x} - \frac{1}{2x+6}$$

$$\frac{1}{20} = \frac{(2x+6-x)}{x(2x+6)}$$

$$\frac{1}{20} = \frac{(x+6)}{(2x^2+6x)}$$

$$2x^2 + 6x = 20x + 120$$

$$2x^2 - 14x - 120 = 0$$

$$x^2 - 7x - 60 = 0$$

$$x^2 - 12x + 5x - 60 = 0$$

$$x(x-12) + 5(x-12) = 0$$

$$(x-12)(x+5) = 0$$

$$x = 12 \text{ and } -5 \text{ (Eliminate -ve value)}$$

Number of days taken by B alone to complete the work = $(2 * 12) + 6 = 30$ days

18) Answer: B

$$\text{Profit ratio of A and B} = 16000 : 9000 = 16 : 9$$

According to the question,

$$10000 * 12 : y * 9 = 16 : 9$$

$$(10000 * 12) / (y * 9) = 16 / 9$$

$$2500 * 3 = y$$

$$y = 7500$$

$$x = (7500 / 10000) * 100 = 75\%$$

19) Answer: A

$$\text{Relative speed} = 40 + 50 = 90 \text{ km/hr}$$

$$\text{Their meeting time} = 180 / 90 = 2 \text{ hours}$$

$$\text{Train x travels after 2 hours} = 180 - (2 * 40) = 100 \text{ km}$$

20) Answer: A

According to the question,

$$\text{Downstream speed} = (40/x)$$

$$\text{Upstream speed} = (20/x)$$

$$120 / (40/x) + 120 / (20/x) = 9$$

$$x/40 + x/20 = 9/120 = 3/40$$

$$3x/40 = 3/40$$

$$x = 1$$

$$\text{Downstream speed} = (40/1) = 40 \text{ km/hr}$$

$$\text{Upstream speed} = (20/1) = 20 \text{ km/hr}$$

$$\text{Speed of boat} = (40 + 20) / 2 = 60 / 2 = 30 \text{ km/hr}$$

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21) Answer: D

Difference between SI and CI for 2 years = $\frac{Pr^2}{100^2}$

$$450 = \frac{(20000 \times r^2)}{100 \times 100}$$

$$450 = 2r^2$$

$$225 = r^2$$

$$r = 15\%$$

22) Answer: E

Number of yellow balls = x

Number of pink balls = 8-x

According to the question,

$$\frac{X_{C1}}{20C1} = \frac{1}{4}$$

$$4x = 20 \Rightarrow x = 5$$

$$\text{Pink balls} = 8 - 5 = 3$$

$$\text{Required probability} = \frac{3C2}{20C2} = \frac{(3 \times 2)}{(20 \times 19)} = \frac{3}{190}$$

23) Answer: E

According to the question,

$$45 \times x = 25 \times 36 + 20 \times 22.5$$

$$45x = 900 + 450$$

$$X = \frac{1350}{45} = 30 \text{ yrs}$$

24) Answer: B

Let us take cost price of an article be x

CP	SP
1 st case → x	120% of x
2 nd case → 80% of x	120% of x + 40 → 175% of (80% of x)

$$120\% \text{ of } x + 40 = 175\% \text{ of } 80\% \text{ of } x$$

$$\frac{120}{100} \times x + 40 = \frac{7}{4} \times \frac{4}{5} \times x$$

$$\frac{7}{5} \times x - \frac{6}{5} \times x = 40$$

$$\frac{x}{5} = 40 \Rightarrow x = \text{Rs.}200$$

25) Answer: D

$$\text{Total work} = 20 \times 12 = 240$$

$$20 \text{ women } 3 \text{ days work} = 20 \times 3 = 60$$

$$\text{Remaining work} = 240 - 60 = 180$$

$$\text{Number of women required complete remaining work} = \frac{180}{6} = 30$$

$$\text{Extra women added after 3 days of the work started} = 30 - 20 = 10 \text{ women}$$

Directions (26-30):

26) Answer: A

$$\text{The average number of women in HR} = \frac{(53+28+62+64+42)}{5} = 249$$

$$\text{The average number of women in Accounts} = \frac{(66+72+61+79+83)}{5} = 361$$

$$\text{Difference} = 361 - 249 = 112$$

27) Answer: D

$$\text{Average number of women in Company D} = \frac{(64+79+79+66)}{4} = \frac{288}{4}$$

$$\text{Average number of women in Company E} = \frac{(42+83+87+74)}{4} = \frac{286}{4}$$

$$\text{Ratio} = \frac{288}{4} : \frac{286}{4} = 144 : 143$$

28) Answer: D

$$\text{Percentage} = \frac{(74/94) \times 100}{1} = 79\%$$

29) Answer: C

$$\text{Average number of women in company A in all departments is}$$

$$= \frac{(53+66+83+67)}{4} = \frac{269}{4}$$

$$\text{Average number of women in company C in all departments is}$$

$$= \frac{(62+61+91+43)}{4} = \frac{257}{4}$$

$$\text{Percentage} = 100 \times \left(\frac{(269/4)}{(257/4)} \right) \approx 105\%$$

30) Answer: C

$$\text{The total of all the women in production department is} = (83+94+91+79+87) = 434$$

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Directions (31-35):

31) Answer: E

$$6x^2 - 13x - 19 = 0$$

$$6x^2 + 6x - 19x - 19 = 0$$

$$6x(x+1) - 19(x+1) = 0$$

$$(6x-19)(x+1) = 0$$

$$x = 19/6, -1$$

$$14y^2 + 27y + 9 = 0$$

$$14y^2 + 21y + 6y + 9 = 0$$

$$7y(2y+3) + 3(2y+3) = 0$$

$$(2y+3)(7y+3) = 0$$

$$Y = -3/2, -3/7$$

x and y relationship cannot be determined

32) Answer: D

$$2x^2 + 9x + 10 = 0$$

$$2x^2 + 4x + 5x + 10 = 0$$

$$2x(x+2) + 5(x+2) = 0$$

$$(2x+5)(x+2) = 0$$

$$X = -2, -5/2 = -2, -2.5$$

$$2y^2 - 7y - 22 = 0$$

$$2y^2 + 4y - 11y - 22 = 0$$

$$2y(y+2) - 11(y+2) = 0$$

$$(2y-11)(y+2) = 0$$

$$Y = 11/2, -2 = 5.5, -2$$

$$x \leq y$$

33) Answer: E

$$16x^2 - 81 = 0$$

$$16x^2 = 81$$

$$x^2 = 81/16$$

$$x = -9/4, 9/4$$

$$64y^2 - 100 = 0$$

$$64y^2 = 100$$

$$y^2 = 100/64$$

$$y = -5/4, 5/4$$

x and y relationship cannot be determined

34) Answer: A

$$x^2 - 28x + 187 = 0$$

$$x^2 - 17x - 11x + 187 = 0$$

$$x(x-17) - 11(x-17) = 0$$

$$(x-17)(x-11) = 0$$

$$X = 17, 11$$

$$y^2 + 7y + 12 = 0$$

$$y^2 + 4y + 3y + 12 = 0$$

$$y(y+3) + 4(y+3) = 0$$

$$(y+3)(y+4) = 0$$

$$Y = -4, -3$$

$$X > y$$

35) Answer: A

$$5x^2 - 37x + 32 = 0$$

$$5x^2 - 5x - 32x + 32 = 0$$

$$5x(x-1) - 32(x-1) = 0$$

$$(x-1)(5x-32) = 0$$

$$X = 1, 32/5$$

$$5y^2 + 12y + 4 = 0$$

$$5y^2 + 10y + 2y + 4 = 0$$

$$5y(y+2) + 2(y+2) = 0$$

$$(5y+2)(y+2) = 0$$

$$Y = -2, -2/5 = -2, -2.5$$

$$X > y$$



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