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IBPS PO Prelims Quantitative Aptitude Answers Key

Q no.	Answer	Q no.	Answer	Q no.	Answer	Q no.	Answer	Q no.	Answer
1.	C	11.	A	21.	C	31.	E	41.	B
2.	E	12.	C	22.	B	32.	A	42.	D
3.	B	13.	C	23.	D	33.	B	43.	C
4.	D	14.	D	24.	A	34.	E	44.	E
5.	C	15.	B	25.	D	35.	A	45.	B
6.	E	16.	D	26.	C	36.	D	46.	D
7.	A	17.	B	27.	A	37.	A	47.	C
8.	C	18.	E	28.	B	38.	D	48.	E
9.	A	19.	A	29.	D	39.	D	49.	B
10.	B	20.	C	30.	A	40.	C	50.	C



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Explanations

1.

Required % for Utensils = $100 \times \frac{3}{5} = 60\%$
(highest)

Required% for Stationary =
 $100 \times \frac{1}{4} = 25\%$

Required% for Cold drinks =
 $100 \times \frac{2}{5} = 40\%$

Required% for Clothes =
 $100 \times \frac{5}{12} = 41.66\%$

Required% for Instruments =
 $100 \times \frac{9}{16} = 56.25\%$

Required% for Home decor =
 $100 \times \frac{4}{7} = 57.14\%$

Required% for Cosmetics =
 $100 \times \frac{3}{8} = 37.5\%$

2. Total male customers from XYZ mall
who purchased

Cosmetics = $13000 \times \frac{3}{8} = 4875$

Utensils = $13000 \times \frac{14}{26} \times \frac{3}{5} = 4200$

Stationary = $13000 \times \frac{10}{26} \times \frac{1}{4} = 1250$

Cold drinks = $13000 \times \frac{12}{26} \times \frac{2}{5} = 2400$

Clothes = $13000 \times \frac{8}{26} \times \frac{5}{12} = 1667$

Instruments = $13000 \times \frac{14}{26} \times \frac{9}{16} =$
3938

Home décor = $13000 \times \frac{16}{26} \times \frac{4}{7} = 4571$

Therefore, the total male customers =
22,901

3. Required number of male customers
who purchased cold drinks =

$5000 \times \frac{4}{3} \times \frac{1}{10} \times \frac{12}{2} \times \frac{2}{5} = 3200$

4. Required number of male customers
purchased cold drinks from ABC mall =

$18512 \times \frac{8}{13} \times \frac{7}{16} = 4984$

5. Let the total number of customers of
ABC mall be x

$15\% \text{ of } x \times \frac{6}{7} - 15\% \text{ of } x \times \frac{3}{10} = 234$

$X = 2800$

6.

$X^2 = 729 = \pm 27$

$Y^2 - 13y + 40 = 0$

$Y = 8, 5$

There is no relationship

7.

$5x^2 - 28x + 32 = 0$



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$$X = 20/5, 8/5$$

$$X = 4, 1.6$$

$$5y^2 + 27y + 36 = 0$$

$$Y = -15/5, -12/5$$

$$Y = -3, -2.4$$

$$x > y$$

8.

$$6x^2 + 22x + 20 = 0$$

$$X = 12/6, 10/6$$

$$X = -2, -5/3$$

$$7y^2 - 16y - 15 = 0$$

$$y = -21/7, 5/7$$

$$Y = 3, -5/7$$

$$y > x$$

9.

$$4x^2 - 23x + 28 = 0$$

$$-16/4, -7/4$$

$$X = 4, 1.75$$

$$8y^2 + 29 - 37 = 0$$

$$37/8, -8/8$$

$$Y = -4.625, 1$$

$$x > y$$

10.

$$x = 39$$

$$y = +-39$$

$$x > y$$

$$11. 566.67 + 15.23 * 6.89 = 457.02 + ?$$

$$566.67 + 104.9347 - 457.02 = ?$$

$$? = 214.58$$

$$12. ?\% \text{ of } (249/4) = (3.95)^2$$

$$?\% \text{ of } 62.25 = 4^2$$

$$? = 25\%$$

$$13. 114.03 * 7.005 + 16.05 + 88.876$$

$$= 903$$

$$14. 67575 / 59.75 + 675 * 9.23 = ?$$

$$1126.25 + 6075 = ?$$

$$? = 7201.75$$

$$15. ?^2 - 56.072 * 13 = 24.99 * 28.956$$

$$?^2 - 728.936 = 25 * 29$$

$$?^2 = 25$$

$$? = 5$$

$$16. 4567.23 - 89.78) / ? = 54 * 5.999$$

$$4567 / ? = 54 * 6$$

$$? = 4567 / 324$$

$$? = 14.373$$

$$17. 195.01 + 55 / (14.99/75) = ?$$





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$$195 + 55 * 1/5 = ?$$

$$? = 206$$

$$18. 1885 + 879.356 + 7895.55 - ? =$$

$$49.99/5$$

$$10660 - ? = 10$$

$$? = 10650$$

$$19. 6201/10 * (105.05/15) = ?$$

$$620 * 7 = ?$$

$$? = 4340$$

$$20. ?\% \text{ of } 375.04 + (12.95)^2 = 450$$

$$?\% \text{ of } 375 = 281$$

$$? = 281/3.75$$

$$? = 74.9$$

$$21. \text{ Required average} =$$

$$(20+30+48+38+50+70) / 6 = 256/6 =$$

$$42.66 = 43$$

$$22. \text{ Required percentage} = (56-30)/56$$

$$*100 = 46.425\%$$

23. Factory C

$$24. \text{ Required percentage} = (52-$$

$$50)/50 * 100 = 4\%$$

$$25. \text{ Required ratio} = 20: 38 = 10:19$$

$$26. 1 \ 2 \ 7 \ 11 \ 15 \ 42 \ 51$$

$$1+1^3 = 2$$

$$2+1^2 = 3$$

$$3+2^3 = 11$$

$$11+2^2 = 15$$

$$15+3^3 = 42$$

$$42+3^2 = 51$$

Correct series - 1 2 **3** 11 15 42 51

$$27. 15 \ 34 \ 72 \ 132 \ 300 \ 604$$

$$15 * 2 + 4 = 34$$

$$34 * 2 + 4 = 72$$

$$72 * 2 + 4 = 148$$

$$148 * 2 + 4 = 300$$

$$300 * 2 + 4 = 604$$

$$*2+4, *2+4, +2+4, *2+4, *2+4$$

$$15 \ 34 \ 72 \ 148 \ 300 \ 604$$

$$28. 216 \ 212 \ 196 \ 200 \ 96 \ -4$$

$$216 - 2^2 = 212$$

$$212 - 4^2 = 196$$

$$196 - 6^2 = 160$$

$$160 - 8^2 = 96$$

$$96 - 10^2 = -4$$

$$216 \ 212 \ 196 \ 160 \ 96 \ -4$$

$$29. 5.5 \ 7.5 \ 13.5 \ 22.5 \ 37.5 \ 60.5$$



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7.5-2.5 = 2

13.5-7.5 = 6

22.5-7.5 = 9

37.5-22.5 = 15

60.5-37.5 = 23

8.5-2.5 = 3

13.5-8.5 = 5

22.5-13.5 = 11

37.5-22.5 = 15

60.5-37.5 = 23

5-3 = 2

11-5 = 6

15-11 = 4

23-15 = 6

Difference of difference

5.5 **8.5** 13.5 22.5 37.5 60.5

30.3 1334 2063 2406 2498 2558

3+11*3 = 1334

1334+9*3 = 2063

2063+7*3 = 2406

2406+5*3 = 2531

2531+3*3 = 2558

3 1334 2063 2406 **2531** 2558

31. 47 49 102 312 1256 3578

47*1+2 = 49

49*2+4 = 102

102*3+6 = 312

312*4+8 = 1256

1256*5+10 = 6290

47 49 102 312 1256 **6290**

32. 167 1895 1247 1407 1191 1255

167+12³ = 1895

1895-10³ = 895

895+8³ = 1407

1407-6³ = 1191

1191+4³ = 1255

167 1895 **895** 1407 1191 1255

33. 9 10 22 69 149 1405

9*1+1 = 10

10*2+2 = 22

22*3+3 = 69

69*4+4 = 280

280*5+5 = 1405

9 10 22 69 **280** 1405

34. 15 6.4 5.92 8.304 14.8864

31.7728

15*0.4+0.4 = 6.4

6.4*0.8+0.8 = 5.92

5.92*1.2+1.2 = 8.304

8.304*1.2+1.2 = 14.8864

14.8864*2+2 = 31.7728





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35.

$$I. 42\% + 10 = 45\% - 13$$

$$3\% = 23$$

$$42\% = 23/3 * 42 = 332$$

Hence only I statement is sufficient to answer the question.

36. I and II are not sufficient to find the value of B.

$$37. R^2 = (D * 100 * 100) / P$$

$$R = 110.25\%$$

38. To find the age of Sonia 5 years ago he data given is not sufficient.

39. both the statements are not sufficient to find the area of circle.

40.

Let the number of members - $n+1$

Let the total number of gift items be x

Average of n members be y

$$1/7x = 6y$$

$$Y = x/42$$

$$N * x/42 + 1 * x/7 = x$$

$$Nx + 6x = 42x$$

$$N + 6 = 42$$

$$N = 36$$

$$N+1 = 36+1 = 37$$

41.

Let the length of train A be x

Let the speed of train B be y

When both trains are crossing each other

$$\text{Relative speed of both trains} = 47+y$$

$$\text{Time taken to cross each other} = 19 \text{ seconds} = 19/3600$$

$$\text{Relative distance} = \text{length of train A} + \text{length of train B} = x + 0.8$$

$$0.8 = 47 + y * 19/3600$$

$$3600x - 19y = 172000 \text{ ----- eq(1)}$$

When both trains are travelling in opposite direction

$$\text{Relative speed} = 47-y$$

$$\text{Time taken} = 108/3600$$

$$\text{Relative distance} = x+0.8$$

$$X+0.8 = 47-y * 108/3600$$

$$100x + 3y = 46200 \text{ ----- eq (2)}$$

By solving eq (1) and (2)

$$\text{Value of } y = 44.72 \text{ kmph}$$

$$X = 4572 \text{ m}$$



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42.

By allegation method

<i>Cheap</i>		<i>dear</i>
10		16
	12	
4		2

$$4:2 = 2:1$$

Quantity sold at 16% profit = $1/3 * 27$
= 9 Kg

43.

$$35/20 = 7/4$$

Quantity of mixture taken out = x litre

Quantity of milk = $7x/11$

Quantity of water = $4x/11$

New mixture

$$(7x/11 * 6) / 4x/11 = 19/4$$

X = 16.5 litres

44. Total number of raspberries = 20

$$N(S) = 20C3 = 1140$$

$$N(E) = 10C2 * 10C1 = 45 * 10 = 450$$

$$P(E) = n(E)/n(S) = 450/1140 = 45/114$$

45. Downstream speed = $9/27 * 60 = 20$
km/hr

Upstream speed = $8/32 * 60 = 15$ km/hr

$$\text{Required time} = 48/20 + 48/15 = 28/5 \\ = 5(3/5) = 5 \text{ hour } 36 \text{ minutes}$$

46.

Let the CP be = Rs. 100

Then MP = Rs. 120

After availing discount the SP be = 0.88
* 120 = 105.6

Profit percentage = $(105.6 - 100) / 100$
* 100 = 5.6%

47.

R1 = 12%

Amount = 20000

T = 3

R2 = 18%

Amount = 20000

T = x - 3

$P1 + A = P2 + A$

$$P1 + 12PX/100 = P2 + P * 18(x-3)/100$$

$P1 = P2$

$$12Px = P * 18(x-3)$$

$$12x = 18x - 54$$

X = 9

T = x - 3

T = 9 - 3 = 6 years

48. Required ratio = 184:202 = 92:101





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49. He scored less in Hindi.

50 Required marks in math in July =
 $(205 \times 80) / 100 = 164$.

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