# WBCS (Main) Exam Paper – VI Practice Set

## Answers with Explanation

1. 2.	(c) Required divisor $= 3 + 4 - 2 = 5$ (b) Let the number be x	$=\frac{17}{2} - \left[\frac{13}{4} \div \left\{\frac{5}{4} - \frac{1}{2} \times \frac{6}{6}\right\}\right]$
	$\therefore \frac{x+12}{6} = 112$ $\Rightarrow x + 12 = 672$ আয়েনিগ মি	$= \frac{17}{2} - \left[ \frac{13}{4} \div \left\{ \frac{5}{4} - \frac{1}{2} \times \frac{6}{6} \right\} \right]$ with the second sec
	$\Rightarrow x = 672 - 12 = 660$ $\therefore \text{ Correct answer } = \frac{660}{6} + 12$	$=\frac{17}{2} - \left[\frac{13}{4} \div \left\{\frac{5}{4} - \frac{1}{2}\right\}\right]$
3.	<ul> <li>= 110 + 12 = 122</li> <li>(d) Here, the first divisor (289) is a multiple of second divisor (17).</li> </ul>	$=\frac{17}{4} - \left[\frac{13}{4} \div \left\{\frac{5-2}{4}\right\}\right]$
4.	<ul> <li>∴ Required remainder = Remainder obtained on dividing 18 by 17 = 1</li> <li>(d) The LCM of 6, 12 and 18</li> </ul>	$=\frac{17}{2} - \left[\frac{13}{4} \div \frac{3}{4}\right]$
ч. 5.	(a) Let x be the remainder. Then, $(25 - x)$ , $(73 - x)$ , and $(97 - x)$ Will	$=\frac{17}{2} - \left[\frac{13}{4} \times \frac{4}{3}\right] = \frac{17}{2} - \frac{13}{3}$
	be exactly divisible by the required number. $\therefore$ Required number = HCF of (73 - x) - (25 - x), (97 - x) -	$=\frac{51-26}{6}=\frac{25}{6}=4\frac{1}{6}$ গ্র্যাচিঙার্স
	$\begin{array}{l} (73 - x) = (25 - x), (97 - x) = (73 - x) \text{ and } (97 - x) = (25 - x) \\ = \text{HCF of } (73 - 25), (97 - 73), \text{ and } (97 - 25) \\ = \text{HCF of } 48, 24 \text{ and } 72 = 24 \end{array}$	8. (c) $\frac{3}{\frac{2}{1}} \div \frac{4}{7} \left(\frac{4+3}{10}\right) \text{ of } \frac{\frac{3+2}{6}}{\frac{3-2}{6}}$
6.	(b) Required number = HCF of 390, 495 and 300 = 15	
	Illustration : 390) 495 (1 390	$= 3 \div \frac{4}{7} \left(\frac{7}{10}\right) \text{of} \left(\frac{5}{6} \times 6\right)$
	105) 390 (3 <u>315</u> 75) 105 (1	$= 3 \div \left(\frac{4}{7} \times \frac{7}{10} \times 5\right) = 3 \div 2 = \frac{3}{2}$
	$     \begin{array}{r}                                     $	9. (c) $\sqrt{\frac{(6.1)^2 + (61.1)^2 + (611.1)^2}{(0.61)^2 + (6.11)^2 + (61.11)^2}}$
	$\frac{30}{\times}$ ख्याहिअस्म HCF of 15 and $300 = 15$	$=\sqrt{\frac{(10\times0.61)^{2}+(10\times6.11)^{2}+(10\times61.11)^{2}}{(0.61)^{2}+(6.11)^{2}+(61.11)^{2}}}$
7.	(b) $8\frac{1}{2} - \left[3\frac{1}{4} \div \left\{1\frac{1}{4} - \frac{1}{2}\left(1\frac{1}{2} - \frac{1}{3} - \frac{1}{6}\right)\right\}\right]$	$=\sqrt{100} = 10$ 10. (b) Average height of whole class
	$=\frac{17}{2} - \left[\frac{13}{4} \div \left\{\frac{5}{4} - \frac{1}{2}\left(\frac{3}{2} - \frac{1}{3} - \frac{1}{6}\right)\right\}\right]$	$= \left(\frac{30 \times 160 + 20 \times 165}{50}\right) \text{cm}$
	$=\frac{17}{2} - \left[\frac{13}{4} \div \left\{\frac{5}{4} - \frac{1}{2}\left(\frac{9-2-1}{6}\right)\right\}\right]$	$= \left(\frac{4800 + 3300}{50}\right) cm$

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 $=\left(\frac{8100}{50}\right)$  cm = 162 cm

11. (c) Numbers in order  $\Rightarrow$  a, b and c  $\therefore a + b = 2 \times 2 = 4$  $b + c = 2 \times 3 = 6$  $c + a = 2 \times 4 = 8$ On adding, 2 (a + b + c) = 4 + 6 + 8 = 18 $\Rightarrow a + b + c = \frac{18}{2} = 9$ দ্যাচিঙাৰ্ম Required average  $=\frac{9}{3}=3$ 12. (a) x + x + 2 + x + 4 + x + 6 $= 9 \times 4$  $\Rightarrow$  4x + 12 = 36  $\Rightarrow$  4x = 36 - 12 = 24  $\therefore x = \frac{24}{4} = 6$  $\therefore$  Largest number = 6 + 6 = 12 13. (c) Marks of Q =  $\frac{5}{2} \times 120 = 300$ 

14. (a) 
$$\frac{a+b}{\sqrt{ab}} = \frac{4}{1} \Rightarrow \frac{a+b}{2\sqrt{ab}} = \frac{2}{1}$$

By componendo and dividendo,

$$\frac{a+b+2\sqrt{ab}}{a+b-2\sqrt{ab}} = \frac{3}{1}$$

$$\Rightarrow \frac{\left(\sqrt{a}+\sqrt{b}\right)^2}{\left(\sqrt{a}-\sqrt{b}\right)^2} = \frac{\left(\sqrt{3}\right)^2}{\left(1\right)^2}$$

$$\Rightarrow \frac{\sqrt{a}+\sqrt{b}}{\sqrt{a}-\sqrt{b}} = \frac{\sqrt{3}}{1}$$
Again using componendo and dividendo,
$$\frac{2\sqrt{a}}{2\sqrt{b}} = \frac{\sqrt{3}+1}{\sqrt{3}-1}$$

$$\Rightarrow \frac{\sqrt{a}}{\sqrt{b}} = = \frac{\sqrt{3}+1}{\sqrt{3}-1}$$
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On squaring both sides

$$\frac{a}{b} = \left(\frac{\sqrt{3}+1}{\sqrt{3}-1}\right)^2 = \frac{3+1+2\sqrt{3}}{3+1-2\sqrt{3}}$$
$$= \frac{4+2\sqrt{3}}{4-2\sqrt{3}} = \frac{2+\sqrt{3}}{2-\sqrt{3}}$$

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$$= 2 + \sqrt{3} : 2 - \sqrt{3}$$
15. (a) Ages of the persons = 4x and 7x years.  
 $\therefore 7x - 4x = 30 \Rightarrow 3x = 30$   
 $\Rightarrow x = 10$   
 $\therefore$  Sum of their ages = 4x + 7x = 11x years  
 $= 11 \times 10 = 110$  years  
16. (b)  $\frac{P-Q}{2} = (P+Q) \times \frac{30}{100}$  Solution  
 $\Rightarrow 5(P-Q) = (P+Q) \times 3$   
 $\Rightarrow 5P - 3P = 5Q + 3Q$   
 $\Rightarrow 2P = 8Q$   
 $\Rightarrow P = 4Q = 4 \times \frac{P \times x}{100}$   
 $\Rightarrow \frac{4x}{100} = 1 \Rightarrow x = 25$   
17. (c) Required percent  
 $= \frac{25}{100} \times 100 = 25\%$   
18. (a) Third number = 100  
First number = 70  
Second number = 63  
 $\therefore$  Required percentage  
 $= \frac{7}{70} \times 100 = 10$   
19. (a) Let the CP of 1 orange = 1  
 $\therefore$  SP of 10 oranges = 13  
 $\therefore$  Gain percent  
 $= \frac{13 - 10}{10} \times 100 = 30\%$   
20. (a) S.P. of article  
 $= \frac{1500 \times 125}{100} = ₹ 1875$   
Net S.P. after paying tax  
 $= ₹ (1875 - 75) = ₹ 1800$   
 $\therefore$  Profit percent  $= \frac{300}{1500} \times 100 = 20\%$   
21. (d) Let number of articles bought  
 $= 6 \times 5 = 30$   
C.P. of 30 articles  
 $= ₹ (\frac{5}{6} \times 30) = ₹ 25$   
S.P. of 30 articles  
 $= ₹ (\frac{5}{6} \times 30) = ₹ 25$ 

 $= \mathbf{E}\left(\frac{6}{5} \times 30\right) = \mathbf{E} 36$ 

∴ Gain %

$$=\frac{36-25}{25} \times 100 = 44\%$$
22. (b) Equivalent discount for two  
successive discounts of 8% and 8%  
$$=\left(8+8-\frac{8\times8}{100}\right)\%$$

$$=(16-0.64)\% = 15.36\%$$

$$\therefore SP = (100-15.36)\% \text{ of 900}$$

$$= ₹\left(\frac{84.64\times900}{100}\right) = ₹ 761.76$$
For a single discount of 16%,  
SP = 84% of 900  
$$= ₹\left(\frac{84\times900}{100}\right) = ₹ 756$$
Certainly seller will lose in this case.  
$$\therefore \text{ Loss} = (761.76 - 756) = ₹ 5.76$$
23. (b) Single equivalent discount  
$$=\left(10+5-\frac{10\times5}{100}\right) = 14.5\%$$
i.e. ₹ 14.50  
24. (b) Let the CP of each shirt be ₹ 100, then SP =  
₹ 140.  
$$\therefore \text{ New SP} = \frac{140\times90}{100} = ₹ 126$$

$$\therefore \text{ When S.P. is ₹ 126, CP. = ₹ 100}$$

$$\therefore \text{ When S.P. is ₹ 126, CP. = ₹ 100}$$
25. (a) Let the principal be ₹ 1  
$$\therefore \text{ S.I. = }\frac{41}{40}-1=\frac{1}{40}$$
Now, Rate =  $\frac{\text{Interest} \times 100}{\text{Principal} \times \text{Time}}$ 

$$=\frac{\frac{1}{40}\times100}{1\times\frac{1}{4}} = \frac{100\times4}{40} = 10\%$$
26. (a) Principal = ₹ x  
Interest = ₹ x  
Rate =  $\frac{\text{S.I} \times 100}{\text{Principal} \times \text{Time}}$ 

$$=\frac{x\times100}{x\times16} = \frac{25}{4}\% \text{ per annum}$$

Case II, Interest = Rs. 2xদ্যাগুৰায়ি  $\therefore \text{Time} = \frac{\text{S.I} \times 100}{\text{Principal} \times \text{Rate}}$  $=\frac{2x\times100\times4}{x\times25}=32 \text{ years}$ 27. (a) Let the larger part of the sum be x  $\therefore$  Smaller part =  $\mathbf{E}$  (12000 - x) According to the question  $\frac{x \times 3 \times 12}{100} = \frac{(12000 - x) \times 9 \times 16}{2 \times 100}$  $\Rightarrow$  36 x = (12000 - x ) 72  $\Rightarrow$  x = (12000 - x)  $\times$  2  $\Rightarrow x + 2x = 24000$  $\Rightarrow$  3x = 24000  $\Rightarrow$  x =  $\frac{24000}{3}$  = ₹ 8000 28. (c) Rate of interest  $=\frac{20}{4}=5\%$  per quarter Time = 3 quarters  $\therefore C.I. = P \left| \left( 1 + \frac{R}{100} \right)^T - 1 \right|$ দ্যান্দ্র প্রায়ি  $=12000\left[\left(1+\frac{5}{100}\right)^{3}-1\right]$  $=12000\left[\left(1+\frac{1}{20}\right)^{3}-1\right]$  $=12000\left[\left(\frac{21}{20}\right)^{3}-1\right]$  $=12000\left(\frac{9261}{8000}-1\right)$ = $\frac{12000 \times 1261}{8000}$  = ₹ 1891.5 29. (a) Let the principal be  $\gtrless P$  $A = P \left( 1 + \frac{R}{100} \right)^{T}$ দ্যাগুৰাটে  $\Rightarrow 6655 = P \left( 1 + \frac{10}{100} \right)^3$  $\Rightarrow 6655 = P\left(1 + \frac{1}{10}\right)^3$ 

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$$\Rightarrow 6655 = P\left(\frac{11}{10}\right)^{3}$$

$$\Rightarrow P = \frac{6655 \times 10 \times 10 \times 10}{11 \times 11 \times 11}$$

$$= ₹ 5000$$
30. (a) C.I. = P\left[\left(1 + \frac{R}{100}\right)^{T} - 1\right]
$$\Rightarrow 2544 = P\left[\left(1 + \frac{12}{100}\right)^{2} - 1\right]$$

$$\Rightarrow 2544 = P\left[\left(\frac{28}{25}\right)^{2} - 1\right]$$

$$\Rightarrow 2544 = P\left[\left(\frac{784}{625} - 1\right)\right]$$

$$\Rightarrow 2544 = P\left(\frac{784 - 625}{625}\right)$$

$$2544 = \frac{P \times 159}{625}$$

$$\Rightarrow P = \frac{2544 \times 625}{159} = ₹ 10000$$

$$\therefore S.I. = \frac{P \times R \times T}{100}$$

$$= \frac{10000 \times 2 \times 12}{100} = ₹ 2400$$
31. (d) A's 1day's work =  $\frac{1}{20}$ 
B's 1day's work, =  $\frac{1}{30}$ 

$$\therefore (A + B)'s 1 day's work$$

$$= \frac{1}{20} + \frac{3}{30} = \frac{3 + 2}{60} = \frac{1}{12}$$
Hence, the work will be completed in 12 days. When worked together.  
32. (b) (A + B)'s 1 day's work =  $\frac{1}{8}$ 

$$(B + C)'s 1 day's work = \frac{1}{6}$$

$$\therefore C's 1 day's work = \frac{1}{6} - \frac{1}{8} = \frac{4 - 3}{24} = \frac{1}{24}$$

A's 1 day's work  $=\frac{1}{6}-\frac{1}{12}=\frac{2-1}{12}=\frac{1}{12}$ দ্যান্দ্র প্রায়িষ্ঠ  $\therefore$  (A + C)'s 1 day's work  $=\frac{1}{12}+\frac{1}{24}=\frac{2+1}{24}=\frac{1}{8}$  $\therefore$  Required time = 8 days 33. (c) Work done by 2(A + B) in one day  $=\frac{1}{10}+\frac{1}{15}=\frac{3+2}{30}=\frac{5}{30}=\frac{1}{6}$  $\therefore$  Work done by (A + B) in one day  $=\frac{1}{12}$  $\therefore$  (A + B) can complete the work in 12 days 34. (c) Part of the tank filled by B and C in half an hour  $=\frac{1}{2}\left(\frac{1}{9}+\frac{1}{12}\right)$  $=\frac{1}{2}\left(\frac{4+3}{36}\right)=\frac{7}{72}$ দ্যান্দ্র প্রায়ি Remaining part  $=1-\frac{7}{72}=\frac{72-7}{72}=\frac{65}{72}$ Part of tank filled by three pipes in an hour  $=\frac{1}{6}+\frac{1}{9}+\frac{1}{12}=\frac{6+4+3}{36}=\frac{13}{36}$ : Time to fill remaining part  $=\frac{65}{72} \times \frac{36}{13} = \frac{5}{2} = 2\frac{1}{2}$  hours 35. (d) Pipe A fills the tank in  $\frac{75}{2}$  minutes. ... Part of the tank filled by A in 30 minutes  $=\frac{2}{75}\times 30=\frac{4}{5}$ Remaining part =  $1 - \frac{4}{5} = \frac{1}{5}$ Now, 1 part is filled by pipe B in 45 minutes  $\therefore \frac{1}{5}$  part is filled in দ্যান্দ্র প্রায়িষ্ঠ  $=45 \times \frac{1}{5} = 9$  minutes

Hence, the pipe B should be turned off after 9 minutes.

36. (d) Part of tank filled by pipes A and B in 1 minute

 $=\frac{1}{30}+\frac{1}{45}=\frac{3+2}{90}=\frac{1}{18}$  part : Part of tank filled in 12 minutes  $=\frac{12}{18}=\frac{2}{3}$  part দিন গুৰায়ে Remaining part  $=1-\frac{2}{3}=\frac{1}{3}$  part When pipe C is opened, Part of tank filled by all three pipes  $=\frac{1}{30}+\frac{1}{45}-\frac{1}{36}=\frac{6+4-5}{180}=\frac{5}{180}=\frac{1}{36}$  $\therefore$  Time taken in filling  $\frac{1}{3}$  part  $=\frac{1}{3}\times 36=12$  minutes  $\therefore$  Total time = 12 + 12 = 24 minutes 37. (a) Speed of bus = 72 kmph $=\left(\frac{72\times5}{18}\right)$ metre/second = 20 metre/second : Required distance  $= 20 \times 5 = 100$  metre 38. (b) Distance covered by motor cyclist P in 30 minutes  $=30 \times \frac{1}{2} = 15$  km Relative speed = 40 - 30 = 10 kmph  $\therefore$  Required speed = Time taken to cover is km at 10 kmph  $=\frac{15}{10}=\frac{3}{2}$  hours 39. (c) When a train croses a bridge, distance covered = length of (bridge + train). : Speed of train দ্যাগ্ৰথায়ে 150 500

$$=\frac{150+500}{30}=\frac{650}{30}=\frac{65}{3}$$
 m/sec

: Time taken to cross the 370m long platform

$$=\frac{370+150}{\frac{65}{3}}=\frac{520\times3}{65}=24$$
 seconds

40. (c) Speed of man in still water = x kmph. Speed of current = y kmph Rate downstream = (x + y) kmph Rate upstream = (x - y) kmph According to the question,

$$\frac{5}{x+y} = \frac{4}{x-y}$$

$$\Rightarrow 5x - 5y = 4x + 4y$$

$$\Rightarrow x = 5y + 4y = 9y$$
Again,  $\frac{35}{x+y} + \frac{35}{x-y} = 10\frac{1}{2} = \frac{21}{2}$ 

$$\Rightarrow \frac{35}{9y+y} + \frac{35}{9y-y} = \frac{21}{2}$$

$$\Rightarrow \frac{5}{10y} + \frac{5}{8y} = \frac{3}{2}$$

$$\Rightarrow \frac{1}{y} + \frac{5}{4y} = 3$$

$$\Rightarrow \frac{4+5}{4y} = 3 \Rightarrow 9 = 12y$$

$$\Rightarrow y = \frac{9}{12} = \frac{3}{4} \text{ kmph or } 0.75 \text{ kmph}$$
(b) Let the speed of boat in still water be x kmph and the distance be y km.  

$$\therefore \text{ Rate downstream} = (x + 1.5) \text{ kmph}$$
Rate upstream =  $(x - 1.5)$  kmph According to the question,  

$$\frac{y}{x+1.5} = 3 \quad ...(i)$$

$$\frac{y}{x-1.5} = \frac{7}{2} \quad ...(ii)$$
On dividing equation (i) by (ii),  

$$\frac{x-1.5}{x+1.5} = \frac{3\times 2}{7} = \frac{6}{7}$$

$$\Rightarrow 7x - 10.5 = 6x + 9$$

$$\Rightarrow x = 10.5 + 9 = 19.5 \text{ kmph}.$$
(c) Let the speed of boat in still water be x kmph and that of current be y kmph., then  $x + y = 12$   
 $x - y = 8$ 

$$\Rightarrow 2x = 20$$

$$\Rightarrow x = 10 \text{ kmph}$$

$$\therefore (c) \text{ Area of the tank} = 180 \times 120 = 2.1600 \text{ m}^2.$$
Total area of the circular plot = 40000 + 21600 = 61600 \text{ m}^2.

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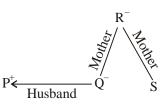
 $\therefore \pi r^2 = 61600$ 

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of functions and it is an example of artificial intelligence.

- (b) The second term is a type of the first. Red is a colour. Similarly, English is a language.
- 54. (c) Bread is prepared by baking the dough. Similarly, curd is manufactured by the fermentation of milk.
- 55. (b) Happy is the antonym of Dismal. Similarly, Proud is the antonym of Humble.
- 56. (c) Powerful is antonym of weak. Similarly, victory is antonym of defeat.
- 57. (d) Students go to college to study different courses. Similarly, patients go to hospital for treatment.
- 58. (d)



Clearly P is husband (male then Q is wife (female) and R is Q's mother. So R is P's mother-inlaw.

- 59. (b) B is sister of F.
  - Therefore, B is sister-in-law of M.
- 60. (b) Husband of Suresh's mother means father of Suresh.

Mother of Suresh's father means grandmother of Suresh.

The son of grandmother means either father or uncle.

Therefore, Suresh is the son of that man.

[Note : Nephew is not mentioned in the options]

61. (b) 
$$\begin{array}{c} x \Rightarrow + + \Rightarrow \div \\ -\Rightarrow \times & \div \Rightarrow - \end{array}$$

$$6 \times 4 - 5 + 2 \div 1 = ?$$

$$\Rightarrow ? = 6 + 4 \times 5 \div 2 - 1$$

$$\Rightarrow ? = 6 + 10 - 1 = 15$$
62. (c) 
$$\begin{array}{c} a \Rightarrow + b \Rightarrow \times \\ c \Rightarrow \div d \Rightarrow - \end{array}$$

$$20 \text{ a 10 b 45 c 5 d 12 = ?}$$

$$\Rightarrow ? = 20 + 10 \times 45 \div 5 - 12$$

$$\Rightarrow ? = 20 + 10 \times 9 - 12$$

$$\Rightarrow ? = 20 + 90 - 12 = 98$$
63. (a) 
$$\begin{array}{c} x \Rightarrow - + \Rightarrow \times \\ \vdots \Rightarrow + - \Rightarrow \div \end{array}$$

$$175 - 25 \div 5 + 2 \times 3 + 10 = ?$$
  

$$\Rightarrow ? = 175 \div 25 + 5 \times 2 - 3 \times 10$$
  

$$\Rightarrow ? = 7 + 10 - 30$$
  

$$\Rightarrow ? = 17 - 30 = -13$$

- 64. (a) Cringe is different from the other three words. Cringe means to show excessive respect to somebody who is more powerful than oneself in an attempt to gain favour from them.
- 65. (c) Except Optimism, all other words signify negative attitude.
- 66. (b) The second number is three times the first number except in the case of option (2).

$$81 \times 3 = 243$$
  
 $64 \times 3 = 192$   
 $25 \times 3 = 75$ 

- 75
- But,  $16 \times 4 = 64$
- 67. (c) Except in number pair 55 62, in all other number pairs there is a difference of 9 between the two numbers.

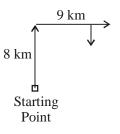
$$43 - 34 = 9$$

$$(1 - 62 = 9)$$

$$92 - 83 = 9$$

But, 
$$62 - 55 = 7$$

68. (a) Travelling from south means movement from south to north.



It is clear from the diagram that it was facing south.

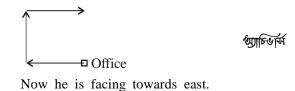


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$$5 \text{ km}$$
  
 $3 \text{ km}$ 

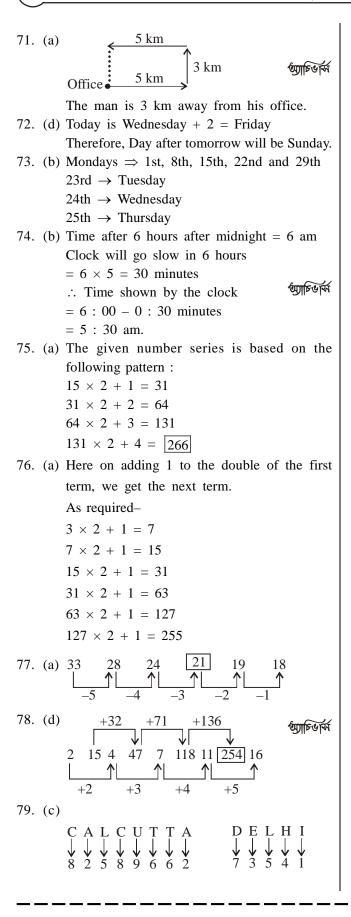
After turning back he was facing east.

70. (c)



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Therefore,  
C A L I C U T  

$$\downarrow \downarrow \downarrow$$
  
80. (d) R U S H  
 $----$   
 $18 + 21 + 19 + 8 = 66$   
Therefore,  
G I R L  
 $----$   
 $7 + 9 + 18 + 12 = 46$   
81. (c) W = 23  $\rightarrow$  Position Number in English alphabet  
W I N  
 $\downarrow \downarrow \downarrow \downarrow \downarrow$   
 $23 + 9 + 14 = 46$   
Therefore,  
W A Y  
 $\downarrow 23 + 1 + 25 = 49$   
82. (b) There is no 'N' letter in the given word.  
Therefore, the word ARAMANA cannot be  
formed.  
D H A R[A M S A L A]  $\Rightarrow$  M A S A L A  
D H[A R A] M[S A] L A  $\Rightarrow$  S A H A R A  
83. (c) There is no 'U' letter in the given word.  
Therefore, the word, SITUATION cannot be  
formed.  
A D MI[NISTRA]TION  $\Rightarrow$  STRAN  
A[D] M I N[] S T R A T I O N]  $\Rightarrow$  TRADITION  
A D MI NI S T R A T I O N]  $\Rightarrow$  TRADITION  
84. (d) BECU  $\Rightarrow$  CUBE  
85. (b)  
Bright  
Students  
Sarla

All student of a particular class (without any exception) are bright. And, Sarla is not bright. Therefore, Sarla cannot be the student of that particular class.

86. (c) Both the Premises are Universal Affirmative (A-type).

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Both the Premises are already aligned.

All girls are proud **জ্যাচি**জাৰ্ম্য All proud will be humiliated one day We know that,  $A + A \Rightarrow A - type$  Conclusion Therefore, our derived Conclusion would be : "All girls will be humiliated one day". Conclusion II is the converse of the derived Conclusion. Thus, both the Conclusions follow. 87. (d) If A is a beggar, then A is not rich. 88. (b) Total number of competitors = 8 + 84 - 1 = 9189. (b) The position of the girl at the middle from either end would be the same.  $\xrightarrow{8 \text{ Girls}} G \xleftarrow{8 \text{ Girls}}$ 90. (b) Original position of Prakash from the left =

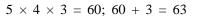
9th Position from the right end  
= 
$$16 - 9 + 1 = 8$$
th

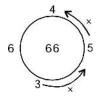
91. (d)



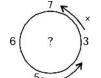
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দিন গুৰাছি





 $3 \times 5 \times 4 = 60; 60 + 6 = 66$ 



 $5 \times 3 \times 7 = 105;$ 105 + 6 = 11192. (d)  $\sqrt{1} + \sqrt{16} + \sqrt{9} + \sqrt{4}$ = 1 + 4 + 3 + 2 = 10 $\sqrt{25} + \sqrt{64} + \sqrt{100} + \sqrt{16}$ 

= 5 + 8 + 10 + 4 = 27

Therefore,

 $\sqrt{36} + \sqrt{256} + \sqrt{144} + \sqrt{64}$ = 6 + 16 + 12 + 8 = 42দ্যান্ড আয়ে 93. (c) First figure :  $6 \times 6 = 4 \times 9$ Second figure :  $9 \times 8 = 24 \times 3$ Third figure  $15 \times 6 = 9 \times ?$  $\therefore ?=\frac{90}{9}=10$ 94. (c)  $27 = 9 \times (2 + 1)$  $35 = 7 \times (3 + 2)$  $36 = 4 \times (4 + 5)$ 95. (d) First Figure  $4 \times 3 \times 2 = 24$ Second Figure গ্যাচিভাম্ন  $(-2) \times 2 (-1) = 4$ Third Figure  $0 \times 6 \times 5 = 0$ 96. (a) Suppose the present age of son = x years The present age of father = 2x years 20 years ago (2x - 20) = 12 (x - 20)or, 2x - 20 = 12 x - 240or, 12x - 2x = 240 - 20or, 10x = 220 $\therefore$  x = 22 years Age of father = 2x = 44 years 97. (b) Many members constitute a family. Families constitute a community. Different communities constitute a village. City is bigger and most developed than that of village. Thus, Meaningful order of words : a. Members  $\downarrow$ d. Family e. Community  $\downarrow$ c. Village  $\downarrow$ b. City 98. (a) Meaningful order of the continents in ascending order of area : (iv) Australia  $\downarrow$ (iii) Europe  $\downarrow$ দি গুৰায়ে (i) South America  $\downarrow$ 

<u>\$0</u>	বর্ষ - ৯, ইস্যু - ৪	★ আগস্ট ২০২১	দ্যৈ ভাষী দিয়
(v) North America ↓ (ii) Africa	ক্ষাতবা <b>র্দ্রে</b>	<ul><li>99. (d) The numbers 1, 3, 4 a faces of the number opposite 2.</li><li>100. (b) The central cube of eac one face painted. Thu cubes.</li></ul>	6. Therefore, 6 lies

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