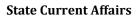


IBPS RRB PO MEMORY BASED MOCK





IBPS RRB PO Pre 2023 Memory Based Mock-01

Directions (1-5): Study the following information carefully and answer the questions given below:

Eight persons P, Q, R, S, T, U, V and W were born in different years viz. 1994, 1996, 1998, 1999, 2001, 2002, 2004 and 2005 but not necessarily in the same order. Base year is counted as 2021.

At most one person is older to P. Two persons were born between P and V. Q was born just before V in the odd numbered year. R is 4 years older to T. W is older to U and younger to S.

Q1. Who was born in the year 1998?

(a) P

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- (b) Q
- (c) R
- (d) T
- (e) U

Q2. In which year S was born?

- (a) 2002
- (b) 1999
- (c) 2001
- (d) 1998
- (e) 2005

Q3. Which of the following statements is true?

- (a) P was born in 1994.
- (b) V was born in 1996.
- (c) T is the oldest among all.
- (d) U was born in 2002.
- (e) R is older than P.

Q4. How many persons were born between W and Т?

- (a) 1
- (b) 2
- (c) 3
- (d) 4
- (e) Cannot be determined

Q5. Who is the oldest person among them?

- (a) P (b) Q
- (c) R
- (d) S
- (e) V

Directions (6-8): In each of the questions below some statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

Q6. **Statements:** All flowers are plants. Only a few plants are fruits. No fruits is vegetables. Conclusion I: Some flowers are fruits. **Conclusion II:** Some pants are not vegetables.

Q7. **Statements:** Only birds are mammals. All birds are eggs. No birds are reptiles.

Conclusion I: Some mammals are eggs. Conclusion II: Some reptiles can be birds.

Q8. Statements: Only a few apples are oranges. All oranges are bananas. Only bananas are grapes. Conclusion I: Some apples are bananas. Conclusion II: Some grapes are not oranges.

Directions (9-13): Study the following information carefully and answer the questions given below: Nine boxes are arranged one above the other. More than four boxes are placed below the box G. Three boxes are placed between box G and box H. The numbers of boxes are placed above box H is same as the numbers of boxes placed below box C. Box A is placed two places above the box E which is placed just above the box I. Box F and box H are not placed adjacent to each other. Box B is placed above the box D.

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Q9. Which box is placed exactly in the middle of the	statements. These statements are followed by two
arrangement?	conclusions. Mark answer as
(a) A	(a) If only conclusion I follows.
(b) E	(b) If only conclusion II follows.
(c) C	(c) If either conclusion I or II follows.
(d) D	(d) If neither conclusion I nor II follows.
(e) None of these	(e) If both conclusions I and II follow.
Q10. How many boxes are placed between boxes A	Q14. Statements: $J < Q \le L = M$; K = Q > P
and I?	Conclusions: I. J < P II. M > P
(a) Two	
(b) Three	Q15. Statements: A < K < T = C > Y; T = N > P
(c) One	Conclusions: I. N > A II. C > P
(d) More than four	
(e) None of these	Q16. Statements: $G \ge H > I = L < M$; $V \le K < O$
	Conclusions: I. $0 \ge I$ II. L > 0
Q11. If box F is placed immediately below box D,	
how many boxes are there between boxes F and G?	Directions (17-20): Study the following information
(a) Two	carefully and answer the questions given below:
(b) Three	Certain numbers of persons sit in a row and face north.
(c) One	A sits 3 rd to the left of F. Three persons sit between F and
(d) Four	R. R sits 2 nd to the left of C who sits just left of V. One
(e) None of these	person sits between U and V. U sits right of C. B sits 2 nd
	to the left of N and 3 rd to the right of U. Q sits 3 rd to the
Q12. The numbers of boxes are placed between box	left of D who sits just right to A. The numbers of persons
G and box H is same as the numbers of boxes are	sit between Q and R is one less than the numbers of
placed between box and box	persons sit to the right of N. No one sits left of Q.
(a) C, H	
(b) F, G	Q17. How many persons are there between D and Q?
(c) G, A	(a) 1
(d) H, B	(b) 2
(e) I, C	(c) 3
	(d) 4
Q13. Which of the following statement is true?	(e) 5
I. Box F is placed above the box E	
II. More than two boxes are placed between box A and	Q18. Which of the following statements is true?
box I	
III. No box is placed below the box H	(a) B sits to the immediate right of N.
(a) Both II and III	(b) U sits at one of the ends of the row.
(b) Only I	(c) A sits to the immediate left of F.
(c) Both I and II	(d) V sits at one of the ends of the row.
(d) Only II	(e) C sits second to the right of R.
(e) All I, II and III	
	Q19. How many persons sit in the row?
Directions (14-16): In these questions, relationship	(a) 19
between different elements is shown in the	(b) 21
between unterent clements is shown in the	(b) 21 (c) 28
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(d) 17	Q25. What is the code for the word "Table"?
(e) 18	(a) bf (b) hu
Q20. How many persons sit between V and B?	(c) qt
(a) 9	(d) dm
(b) 2	(e) None of the above
(c) 4	Q26. Which of the following word is coded as "xf"?
(d) 7	(a) New
(e) 8	(b) Word
	(c) Towards
Q21. In the number '479486553', if odd digits are	(d) Chapter
subtracted by 1 and even digits are subtracted by 2.	(e) None of the above
Then, what will be the sum of the digits which are	
2 nd , 4 th and 6 th from the left end in the new number	Directions (27-31): Study the following information
formed after rearrangement?	carefully and answer the questions given below:
(a) 13	Seven persons from M-S live in seven storey building
(b) 14	and belongs to different countries viz. Italy, Canada,
(c) 12	Germany, China. Spain, India and Brazil but not
(d) 16	necessarily in the same order. The bottom most floor is
(e) None of these	numbered as 1 and so on till the topmost floor is
Directions (22-26): Study the following information	numbered as 7.
carefully and answer the questions given below:	S lives two floors above the one who belongs to Brazil
In a certain code:	and live on prime numbered floor. More than two floors
"Shuffle new word" is coded as "xf bf go"	gap between S and the one who belongs to Canada. N belong to Spain and lives three floors below the one who
"New word towards corner" is coded as "xf bf hu hh"	belongs to Canada. O lives just above the one who
"Towards chapter word table" is coded as "hu qt bf dm"	belongs to Italy. The numbers of persons live below M as
"Table around towards" is coded as "dm ch hu"	same as live above R who lives just below P. The one who
	belongs to China lives just above the one who belongs to
Q22. What is the code for the word "Towards"?	India.
(a) bf	
(b) hu	Q27. Who lives on the 5 th floor?
(c) qt	(a) Q
(d) dm	(b) S
(e) None of the above	(c) The one who belongs to Italy
Q23. What is the code for the word "chapter"?	(d) R (a) Both (a) and (c)
(a) bf	(e) Both (a) and (c)
(b) hu	Q28. Which country does O belong to?
(c) qt	(a) India
(d) dm	(b) Italy
(e) None of the above	(c) Brazil
	(d) China
Q24. Which of the following word is coded as "ch"?	(e) Germany
(a) New	
(b) Word	Q29. How many floors are there between P and the
(c) Towards	person from Canada?
(d) Around	(a) 1
(e) None of the above	(b) 2
	(c) 3

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(d) 4	(a) UPR
(e) Cannot be determined	(b) RMO
(e) Cannot be determined	
	(c) LGI
Q30. Which country does the person on the 3	
belong to?	(e) YTV
(a) Germany	Divertions (2(40) Studenthe following information
(b) Brazil	Directions (36-40): Study the following information
(c) Italy	and answer the questions given below:
(d) China	Eight persons sit around a circular table in which some
(e) Canada	of them face inside and some of them face outside.
	H sits 3 rd to the right of K and both face the same
Q31. If all the persons live in alphabetical ord	direction. I sits opposite K but both face opposite
	direction. Lists 2 nd to the right of it. Fists opposite D who
top to bottom then how many persons remai	sits 2 ^m to the left of E. minediate neighbor of E lace
same position (Excluding M)?	opposite direction as E faces. G sits 3 rd to the right of D
(a) One	and not an immediate neighbor of I and K. L and E face
(b) None	inside. G and F face the same direction.
(c) Two	
(d) Three	Q36. Who sits 3 rd to the left of F?
(e) More than three	(a) H
	(b) L
Directions (32-34): Study the following infor	
and answer the questions given below:	(d) G
W walks 8m towards west from point P to reach	
He takes a left turn from point Q and walks 10m	
point R. He takes a right turn from point R and	
12m to reach point S. He takes another right tu	
point S and walks 6m to reach point T. He tak	
turn from point T and walks 8m to reach his ho	
turn nom point i and warks om to reach ins nor	$\begin{array}{c} (0) \\ (c) \\ H \end{array}$
Q32. In which direction is point T with respe	
point to Q?	(e) F
(a) North	020 Herringen eithetigen Ford Luber
(b) South	Q38. How many persons sit between E and I when
(c) South-east	counted from the right of I?
(d) South-west	(a) Four
(e) North-east	(b) Three
	(c) One
Q33. What is the shortest distance between p	
and W's home?	(e) Two
(a) 22m	
(b) 10m	Q39. Which of the following is true?
(c) 12m	(a) G sits 2^{nd} to the left of I
(d) 26m	(b) H and F face the same direction
(e) None of these	(c) L and D are immediate neighbors
	(d) E and G face opposite direction to each other
Q34. What is the total distance travelled by V	? (e) All are true
(a) 47m	
(b) 40m	Q40. Who are the immediate neighbors of E?
(c) 44m	(a) K and F
(d) 41m	(b) L and D
(e) 36m	(c) G and K
(-)	(d) I and H

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	(c) 40
Q41. A and B entered into a partnership	(d) 25
business with investment of Rs. 1300 & Rs. 500	(e) 50
respectively. After six months, C joined them	Q45. A man invested Rs. P in scheme A on
with investment of Rs. 1800. At the end of a	compound interest at rate of 10% p.a. for two
year, the profit share of C is Rs. 360. Find the	years and he invested Rs. (P+500) in scheme B
difference between profit share of A and B.	on simple interest at rate of 12% p.a. for same
(a) 480 Rs.	period of time. If the interest received by man
(b) 280 Rs.	from scheme A is Rs. 150 less than that of from
(c) 400 Rs.	scheme B, then find amount invested in scheme
(d) 320 Rs.	В.
(e) 180 Rs.	(a) 1250 Rs.
Q42. Five years ago, the average age of A and B	(b) 1000 Rs.
was 15 years. The ratio of present age of A an <mark>d</mark>	(c) 1500 Rs.
C is 6 : 5 respectively. If B is four years younger	(d) 2000 Rs.
than C, then find the sum of present age of B	(e) 2500 Rs.
and C (in years).	Direction (46- 50): Find the wrong number in
(a) 34 years	t <mark>he give</mark> n number series.
(b) 32 years	Q <mark>46. 640</mark> 0, 400, 50, 12.5, 6.25,
(c) 36 years	3, 12.5
(d) 24 years	(a) 400
(e) 40 years	(b) 12.5
Q43. The average weight of eight people is X kg.	(c) 6.25
Two new people joined them wit <mark>h total</mark> weight	(d) 3
of 151 kg and average weight of all people	(e) 50
increased by $\frac{3}{2}$ kg. If the weight of lightest	Q47. 34, 32, 36, 30, 38, 48, 40
people out of two people joined is $X-5$ kg, the	(a) 34
find the difference between weight these two	(b) 32
people who joined later.	(c) 48
(a) 27 kg	(d) 36
(b) 21 kg	(e) 30
(c) 15 kg	Q48. 43, 47, 56, 72, 108, 133, 182
(d) 25 kg	(a) 72
(e) 22 kg	(b) 56
Q44. A gets 40% marks in an exam and he	(c) 43
received 40 less marks than passing marks. B	(d) 47
gets 70% marks in same exam and received 20	(e) 108
more marks than passing marks. If C gets 65%	Q49.12, 28, 60, 108, 172, 256, 348
marks in the same exam, then find the	(a) 12
difference between marks received by A and C	(b) 28
in the exam.	(c) 60
(a) 30	(d) 256
(b) 60	(e) 108
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Q50.3, 7	, 27, 112, S	565, 3396, 2	.3779	(a) 2000
(a) 7				(b) 4000
(b) 3				(c) 5000
(c) 27				(d) 3000
(d) 565				(e) 1000
(e) 23779				Q54. Find the number of rooms vacant in D is
Direction (51-55): The tabl	e given below s	shows	what percent of the total number of rooms in
the total n	umber of rooms	s available in th	e five	the hotel B.
different h	otels (A, B, C, D	and E). It also s	shows	(a) 55%
the numbe	er of vacant room	ms in these five		(b) 52%
hotels. Rea	ad the data care	fully and answ	er the	(c) 58%
	questions given	-		(d) 60%
	Total number	Vacant		(e) 62%
	of rooms	rooms		Q55. Find the number of rooms occupied in
A	220	110		hotel A and D together are how many
В	250	150		more/less than the number of rooms occupied
С	280	180		in hotel E and B together.
D	260	130		(a) 60
Е	310	120	-	(b) 80
Note: Total	l number of room		hotel =	(c) <mark>50</mark>
	ms + Occupied ro			(d) 20
	the average nun		d	(e) 70
-	otel B, C and E t	_		Direction (56-60) What approximate value
(a) 130	·	0		should come in the place of question (?) mark
(b) 120				in the following questions.
(c) 140				$Q56.98.99 + 19.98 - 101.03 = \frac{107.97}{2}$
(d) 150				(a) 2
(e) 110				(b) 4
	tel F, total numb	per of rooms av	ailable	(c) 6
e e	re than that of			(d) 8
rooms occ	upied is 40% m	ore than the ro	oms	(e) 12
vacant in h	notel E. Find the	total number o	of	$Q57.\sqrt{?} = (27.99)^2 - 1180.03 + (20.07)^2$
rooms vac	ant in the hotel	F.		(a) 64
(a) 184				(b) 100
(b) 180				(c) 16
(c) 176				(d) 36
(d) 182				(e) 144
(e) 178				$Q58. 19.09^2 - 20.04\% \text{ of } 190.04 - ? = 90.12$
Q53. The c	ost of a room in	hotel A is Rs. X	and	(a) 233
the cost of	a room in hotel	C is Rs. Y. If the	e	(b) 247
revenue ge	enerated from t	he hotel A is Rs		(c) 212
-	l the ratio of rev			(d) 202
C to A is 10): 11, then find t	he sum of X and	d Y.	
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(e) 285	(d)7.5
$Q59.32.01 \div 1.99^2 \times 127.99 = 2^?$	(e)4.5
(a) 11	Q64. T
(b) 9	four is
(c) 8	(a)28
(d) 10	(b)44
(e) 12	(c)36
Q60. 24.01% of 449.98 + $?^2 = (16.01)^2 - \sqrt[3]{63.93}$	(d)32
(a) 8	(e)40
(b) 12	Q65. T
(c) 10	times
(d) 9 (e) 14	upstre
Q61. In a mixture, the quantity of milk is x liters	still w
and water are 8 liters. Five liters pure milk and	boat A
six liters of water added in the mixture so that	minut
milk becomes 75% of resultant mixture. If 10	distan
liters of resultant mixture is removed, then	(a)210
find the remaining quantity of mixture (in	(b)180
liters).	(c) <mark>240</mark>
(a) 48	(d)300

- (a) 48
- (b) 42
- (c) 56
- (d) 46
- (e) 37

Q62. In a right-angled triangle hypotenuse is $8\sqrt{10}$ cm and based is half of the height. If height and based of the triangle are equal to height & radius of a cylinder, then find curved surface area of cylinder.

(a) 512π cm²

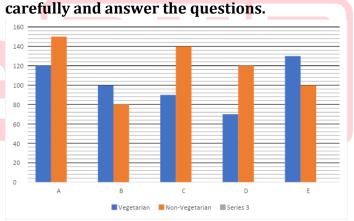
- (b) 256 π cm²
- (c) $128 \pi \text{ cm}^2$
- (d) 556 π cm²
- (e) None of these

Q63. The ratio of speed of P to speed of Q is 5:8, P covers D km distance in 3 hours and Q covers (D+40) km in 2.5 hours. If P increases his speed by 25%, then find the time taken by P to cover (D+180) km distance. (in hours)

(a)6

- (b)5
- (c)8

The sum of five consecutive multiples of s 200. Find the smallest multiple. The speed of boat A in still water is 4 s the speed of stream and covers 24 km eam in 8 hours. If the speed of boat B in vater is 2 kmph more than the speed of A in downstream, then find the time (in tes) taken by boat B to cover the same nce in upstream. 0 0 0 0 (e)360 **Direction (66 – 70): The bar graph given below** shows total number of people (Vegetarian + non-Vegetarian) visited in five (A, B, C, D and E) different restaurants daily. Read the bar graph



Q66. Total vegetarian people visited in F are $\frac{7}{4}$ th of total non-vegetarian people visited A and total non-vegetarian people visited in F are 50% more than total vegetarian people visited in B. Find total people visited in F are how much more than total non-vegetarian people visited in D.

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(a) 210	(a) 21
(b) 240	(b) 26
(c) 260	(c) 17
(d) 200	(d) 27
(e) 180	(e) 29
Q67. Total non-vegetarian people visite	d in C Q72. A seller has 230 kg of mangoes which he
and D together are what percent (appr	purchases at rate of Rs. 10 per kg. 20% of total
more or less than total people visited in	mangues were rotten in packaging and thrown
(a) 83%	away. If seller sold half of the remaining mangoes at the rate of Rs. 20 per kg, then at
(b) 67%	what price (per kg) should seller sell the
(c) 44%	remaining mangoes to gain a total profit of
(d) 71%	15% on the total quantity seller had initially
(e) 69%	(in Rs. /kg)?
	(a) 8.75
Q68. If daily same number of vegetarian	(0) 0.25
non-vegetarian people visited in restau	
then find total number of people visited week in restaurant D.	d in a (d) 9.25 (e) 9.75
	Q73. 30 women working 9 hours in a day can
(a) 1290	pack 1000 parcels in 10 days. If the efficiency
(b) 1330 (-) 1310	of woman is $\frac{100}{3}$ % more than that of a man,
(c) 1310 (b) 1220	5
(d) 1320	then find how many men will pack 1500 parcel
(e) 1270	working 5 hours a day for 10 days.
Q69. Find the ratio of total people visite	
that in A.	(b) 42
(a) 23 : 21	(c) 44
(b) 25 : 27	(d) 48
(c) 23 : 25	(e) 50
(d) 23 : 27	Direction (74–75): Given below in each
(e) 28 : 27	question there are two statements (I) and (II).
Q70. Total vegetarian people visited in	
what percent more than average numb	
non-vegetarian people visited in B and	
together.	choose one alternative as your answer of the
(a) 25%	questions:
(b) 5%	
(c) 10%	Q74. Find out the length of train X given that
(d) 20%	speed of train X is 20 m/sec.
(e) 30	I. Train X crosses another train Y moving in
Q71. Average of present age A, B and C is 14	opposite an eelien in e bee and the speed of train f
while four years ago, average age of B, C an	
15 years. If the sum of present of A and D is	
years, then find the age of D five years here (in years).	X.
(III years).	(a) Both I and II together
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- (b) Only statement I
- (c) Only statement II
- (d) Both I and II together are not sufficient
- (e) Either I or II alone

Q75. Side of square is 3.5 cm more than radius of circle. What will be area of square?

I. Difference between circumference and diameter of circle is 45 cm.

II. Radius of circle is 50% more than breadth of rectangle whose length is 15 cm. Ratio of circumference of circle & perimeter of rectangle is 3 : 2.

(a) Only statement II is sufficient

(b) Either statement I or Statement II alone is sufficient

(c) Statement I and II both together is sufficient

(d) Only statement I is sufficient

(e) Neither statement I nor statement II is sufficient

Direction (76–80): Solve the given two equations and mark the correct option based on your answer.

(a)	if x>y
(b)	if x≥y

(c) if x**<**y

(d) if $x \leq y$

(e) if x = y or no relation can be established between x and y.

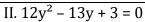
Q76. I. $2x^2 - 17x + 21 = 0$ II. $3y^2 - x - 4 = 0$

Q77. I. $2x^2 - x - 45 = 0$ II. $2y^2 - 5y + 3 = 0$

Q78. I. $2x^2 - 23x + 66 = 0$ II. $3y^2 - 16y + 21 = 0$

> Q79. I. $2x^2 + 16x + 24 = 0$ II. $6y^2 + 13y + 6 = 0$

Q80. I. $12x^2 - 12x = 13x - 12$



solutions:

Directions (1-5):

Age	Persons
27	R
25	Р
23	Т
22	Q
20	V
19	S
17	W
16	U
	27 25 23 22 20 19 17

S1. Ans. (d)S2. Ans. (a)

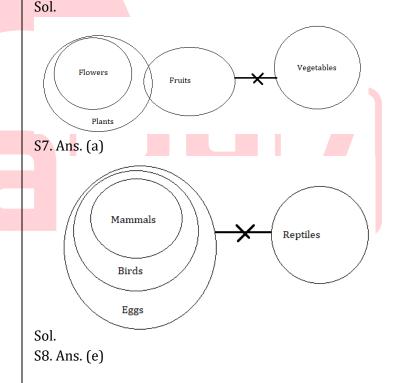
S3. Ans. (e)

S4. Ans. (c)

S5. Ans. (c)

Directions (6-8):

S6. Ans. (b)







State Current Affairs Sol. Word Code Xf New Word Bf Shuffle Go Grapes Toward Hu Oranges Apples S Hh Corner Bananas Table Dm Chapter Qt Around Ch S22. Ans. (b) Directions (9-13): S23. Ans. (c) Boxes S24. Ans. (d) F S25. Ans. (d) С S26. Ans. (a) A Directions (27-31): G Floor Persons Country E 7 М Canada Ι 6 0 Germany В 5 Q Italy Η 4 Ν Spain D 3 S China S9. Ans. (b) 2 Р India S10. Ans. (a) 1 R Brazil S11. Ans. (b) S27. Ans. (e) S12. Ans. (e) S28. Ans. (e) S29. Ans. (d) S13. Ans. (c) S30. Ans. (d) S31. Ans. (b) Directions (14-16): S14. Ans. (b) Directions (32-34): S15. Ans. (e) S16. Ans. (c) 0 8m т Home Directions (17-20): 10m D сv U Α Ν Q 6m 1 1 1 1 1 12m R S S17. Ans. (b) S32. Ans. (d) S18. Ans. (e) S33. Ans. (b) S19. Ans. (c) S34. Ans. (c) S20. Ans. (c) S35. Ans. (d) S21. Ans. (c) 479486553 Directions (36-40): 268264442 6+2+4 = 12

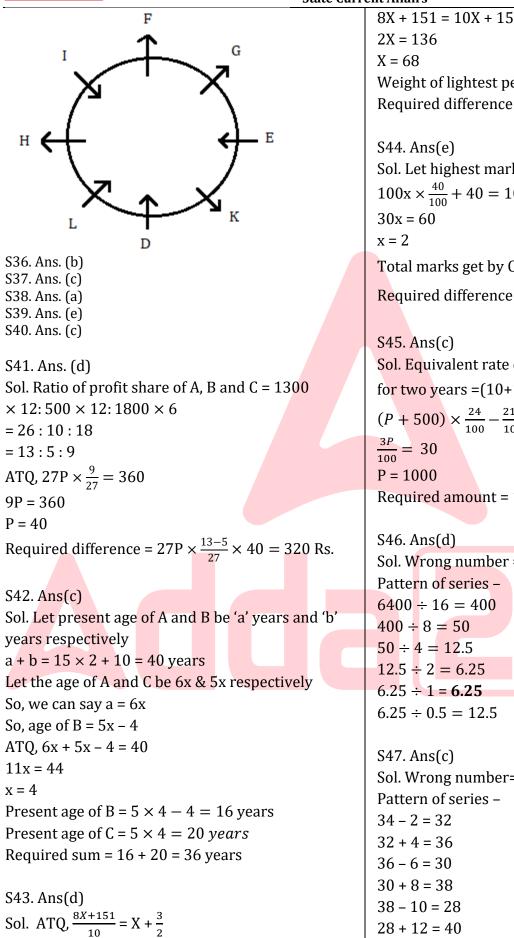
Directions (22-26):

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8m







Weight of lightest people = (68 - 5) = 63 kg Required difference = (151-63) - 63 = 25 kg S44. Ans(e) Sol. Let highest marks of the exam = 100x $100x \times \frac{40}{100} + 40 = 100x \times \frac{70}{100} - 20$ 30x = 60Total marks get by C = $200 \times \frac{65}{100} = 130$ Required difference = $130 - 200 \times \frac{40}{100} = 50$ S45. Ans(c) Sol. Equivalent rate of interest at rate of 10% p.a. for two years = $(10+10+\frac{10\times10}{10}) = 21\%$ $(P + 500) \times \frac{24}{100} - \frac{21P}{100} = 150$ $\frac{3P}{100} = 30$ P = 1000Required amount = 1000 + 500 = 1500 Rs.

S46. Ans(d) Sol. Wrong number = 3 Pattern of series – $6400 \div 16 = 400$ $400 \div 8 = 50$ $50 \div 4 = 12.5$ $12.5 \div 2 = 6.25$ 6.25 ÷ 1 = 6.25 $6.25 \div 0.5 = 12.5$

S47. Ans(c) Sol. Wrong number= 48 Pattern of series -34 - 2 = 3232 + 4 = 3636 - 6 = 3030 + 8 = 3838 - 10 = 2828 + 12 = 40

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				Required average = $\frac{100+100+190}{3} = \frac{390}{3} = 130$	
S48. Ans	(e)			- 3 3	
Sol. Wroi	ng number = 108			S52. Ans. (d)	
Pattern o	attern of series –			Sol.	
$43 + 2^2 =$	47				
$47 + 3^2 =$	56			Total number of rooms in hotel F = $\frac{125}{100} \times 280 =$	
$56 + 4^2 =$				350	
72 + 5 ² =	97			Total number of rooms occupied in hotel F =	
97 + 6 ² =	133			$\frac{7}{5} \times 120 = 168$	
133 + 7 ²	= 182			Total number of rooms vacant in hotel F= 350 – 168 = 182	
S49. Ans	(d)				
Sol. Wroi	ng number = 256			S53. Ans. (e)	
Patten of	series –			Sol.	
12 + 16 =	: 28			Total revenue generated from hotel A = 55000	
28 + 32 =	: 60			$X \times 110 = 55000$	
60 + 48 = 108				$\mathbf{X} = 500$	
108 + 64 = 172				Total revenue generated from hotel C = $\frac{10}{11}$ ×	
172 + 80 = 252				55000 = Rs.50000	
252 + 96 = 348			ATQ,		
			$Y \times 100 = 50000$		
S50. Ans(a)				Y = 500	
Wrong number = 7				Required value = 500 + 500 = 1000	
Pattern of series –					
$3 \times 2 + 2$				S54. Ans. (b)	
8 × 3 + 3				Sol.	
27 × 4 +				Required percentage = $\frac{130}{250} \times 100 = 52\%$	
	+ 5 = 565			Required percentage $-\frac{1}{250} \times 100 = 52\%$	
	+ 6 = 3396				
3396 × 7	+ 7 = 23779			S55. Ans. (c)	
				Sol.	
Sol. (51-	-			Number of rooms occupied in hotel A and D	
Hotel	Total number	Vacant	00	$ \mathbf{capather conts} + 130 = 240$	
S	of rooms	rooms		Number of rooms occupied in hotel A and D	
Α	220	110		20gether = 1090 + 100 = 290	
В	250	150		Sequined pifference = $290 - 240 = 50$	
С	280	180		280-180 = 100	
D	260	130		$8564301 \leq (F_{30})$	
Ε	310	120	3	$5601129 \pm 290 101 \approx \frac{108}{?}$	
				$18 \approx \frac{108}{2}$	
				?≈6	
S51. Ans.	(a)				
Sol.					

Adda 2417Adda 2417Let the speed of P and Q be 5x kmph and 8x kmphrespectively.ATQ, $D = 3 \times 5x = 15x$ (I)Also, $D + 40 = 2.5 \times 8x$ $D = 20x - 40$ (II)Solving (I) and (II), $15x = 20x - 40$ $x = 8$
respectively. ATQ, $D = 3 \times 5x = 15x$ (I) Also, $D + 40 = 2.5 \times 8x$ D = 20x - 40(II) Solving (I) and (II), 15x = 20x - 40
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Solving (I) and (II), 15x = 20x - 40
15x = 20x - 40
15x = 20x - 40
x = 8
So, $D = 15x = 120$ km
Original speed of P= $5x = 40$ kmph
Required time = $\frac{120+180}{40\times\frac{125}{120}} = \frac{300}{50} = 6$ hour
$40 \times \frac{125}{100} = \frac{100}{50} = 0.0001$
S64. Ans(d)
Sol.
Let the five consecutive multiples of four be 4a, 4b,
4 <mark>c, 4d, 4</mark> e;
w <mark>here a=</mark> x, b=x+1, c=x+2, d=x+3 and e=x+4
(I)
ATQ,
4a + 4b + 4c + 4d + 4e = 200
a+b+c+d+e=50
Or, $x + x + 1 + x + 2 + x + 3 + x + 4 = 50$
from (I)
5x = 50 - 10
x = 8
So, smallest multiple= $4a = 4x = 4 \times 8 = 32$
S65. Ans(c)
Sol.
Let the speed of stream be x kmph.
So, Speed of boat A in still water = $4 \times x = 4x$
kmph
ATQ,
$\frac{24}{4x-x} = 8$
$ \begin{array}{l} 4x-x \\ x = 1 \end{array} $
So, speed of stream= $x = 1$ kmph
Speed of boat B in still water = $5x + 2 = 5 \times 1 + 1$
2 = 7 kmph
*
Required time= $\frac{24}{7-1}$ = 4 hours= 4 × 60 = 240
minutes

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	From (iii) and (iv)	
S66. Ans(b)	d = 21	
Sol. Total people (Vegetarian + non-Vegetarian)	Required age = 21 + 5 = 26 years	
visited in F		
$=150 \times \frac{7}{5} + 100 \times \frac{150}{100}$	S72. Ans(a)	
= 210 + 150	Sol.	
= 360	Total cost price of quantity of mangoes seller had =	
Required difference = $360 - 120 = 240$	$230 \times 10 = 2300$ Rs.	
	So, total selling price of quantity of mangoes seller had if he had to gain 15% profit = 2200 x 115 =	
S67. Ans(c)	had, if he had to gain 15% profit = $2300 \times \frac{115}{100} = 2645 Rs$.	
Sol. Total non-vegetarian people visited in C and D	Total quantity of mangoes available for selling =	
= (140 + 120) = 260	$230 \times \frac{80}{100} = 184 \text{ kg}$	
Required percentage = $\frac{260-180}{180} \times 100 = 44.44\% \approx$	Total selling price of half of 184 kg of mangoes	
100	which seller sold at Rs. 20 per kg = $184 \times \frac{1}{2} \times 20 =$	
44%	which seller sold at RS. 20 per kg = $184 \times \frac{1}{2} \times 20 =$ 1840 <i>Rs</i> .	
	So, seller had to sell the remaining mangoes =	
S68. Ans(b)	$\frac{2645 - 1840}{92} \times \frac{1}{100} = 8.75 \text{ Rs./kg}$	
Sol. Required sum = $70 \times 7 + 120 \times 7$	92 100 000 000 1000 1000	
= 490 + 840	S73. Ans. (d)	
= 1330	Sol.	
	Let the efficiency of a woman be 4x and total	
S69. Ans(d)	number of men required be m.	
Sol. Total people visited $E = 130 + 100 = 230$		
Total people visited $A = 120 + 150 = 270$	So, the efficiency a man = $4x \times \frac{3}{4} = 3x$	
Required ratio= 230: 270	$30 \times 4x \times 9 \times 1000 \times 10 = 3x \times m \times 1500 \times 5 \times 10^{-10}$	
= 23: 27	10	
	m = 48	
S70. Ans(d)		
Sol. Average number of non-vegetarian people	S74. Ans.(a)	
visited in B and D	Sol. Speed of train X = 20 m/sec	
$=\frac{80+120}{2}=100$	Let length of train X be x m	
Required percentage = $\frac{120-100}{100} \times 100 = 20\%$	From II	
1 1 1 100	length of train Y = 0.5 x m	
	From I	
S71. Ans(b)	Speed of train $Y = 20 \times 1.5 = 30$ m/sec	
Sol. Let present age of A, B, C and D be a, b, c & d	From I & II $r + 0.5r$	
respectively	$\frac{x+0.5x}{6} = 30+20$	
$a + b + c = 14 \times 3 = 42 (i)$	ь x = 200 m	
$b + c + d = 15 \times 3 + 4 \times 3 = 57$ (ii)		
a + d = 27(iii)	S75. Ans(b)	
From (i) and (ii)	Sol.	
d - a = 15(iv)	Let radius of circle = r cm	
	So, side of square = r + 3.5 cm	
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From I –	$2x^2 - 12x - 11x + 66 = 0$	
$2 \times \frac{22}{7} \times r - 2r = 45$	2x(x-6) - 11(x-6) = 0	
/	$x = \frac{11}{2}, 6$	
r = 10.5 cm	Δ	
side of square = $10.5 + 3.5 = 14$ cm	II. $3y^2 - 16y + 21 = 0$	
Area of square = 196 cm ² Statement Lalone is sufficient to give answer	$3y^2 - 9y - 7y + 21 = 0$	
Statement I alone is sufficient to give answer. From II –	3y(y-3) - 7(y-3) = 0	
Let breadth of rectangle = $2x$	$y = 3, \frac{7}{3}$	
So, radius of circle will be = $3x$	So, x>y	
ATQ –		
$\frac{2 \times \frac{22}{7} \times 3x}{2} = \frac{3}{2}$	S79. Ans(c)	
$\frac{2 \times \frac{7}{7} \times 3x}{2(2x+15)} = \frac{3}{2}$	Sol. I. $2x^2 + 12x + 4x + 24 = 0$	
x = 3.5 cm	$1.2x^{2} + 12x + 4x + 24 = 0$ $2x(x + 6) + 4(x + 6) = 0$	
Radius of circle = 10.5 cm	(2x+4)(x+6) = 0	
side of square = 10.5 + 3.5 = 14 cm	x = -2, -6	
Area of square = 196 cm^2	II. $6y^2 + 9y + 4y + 6 = 0$	
So, either statement I or Statement II alone is	3y(2y+3) + 2(2y+3) = 0	
sufficient.	(2y+3) (3y+2) = 0 $y = -\frac{3}{2}, -\frac{2}{3}$	
	$y = -\frac{3}{2}, -\frac{2}{3}$	
\$76. Ans(a)	x <y< td=""><td></td></y<>	
Sol. I. $2x^2 - 14x - 3x + 21 = 0$		
2x(x-7) - 3(x-7) = 0	S80. Ans.(b)	
$x = 7, \frac{3}{2}$	Sol.	
II. $3y^2 - x - 4 = 0$	$I.12x^2 - 12x = 13x - 12$	
$3y^2 - 4y + 3y - 4 = 0$	$12x^2 - 25x + 12 = 0$	
y(3y-4) + 1(3y-4) = 0	$12x^2 - 16x - 9x + 12 = 0$	
$y = -1, \frac{4}{2}$	(4x - 3)(3x - 4) = 0	
5	$x = \frac{3}{4}, \frac{4}{3}$	
x > y	II. $12y^2 - 13y + 3 = 0$	
577 Ang (g)	$\Rightarrow 12y^2 - 4y - 9y + 3 = 0$	
S77. Ans (e) Sol. I. 2x ² - x -45 =0	$\Rightarrow 12y^2 - 4y - 9y + 3 = 0$	
$301. 1. 2x^2 - x - 45 = 0$ $2x^2 - 10x + 9x - 45 = 0$	$\Rightarrow 4y (3y - 1) - 3 (3y - 1) = 0$	
$2x^2 - 10x + 9x - 43 = 0$ 2x(x-5) + 9(x-5) = 0	$\Rightarrow (4y - 3) (3y - 1) = 0$	
x = 5, -4.5	$\Rightarrow y = \frac{3}{4}, \frac{1}{3}$	
x = 5, -4.5 II. $2y^2 - 5y + 3 = 0$	So, $x \ge y$	
$11.2y^2 - 3y + 3 = 0$ $2y^2 - 3y - 2y + 3 = 0$		
y(2y-3) - 1(2y-3) = 0		
$y = 1, \frac{3}{2}$		
So, there is no relation between x and y.		
S78. Ans(a)		
Sol. I. $2x^2 - 23x + 66 = 0$		
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