REGIONAL RURAL BANKS (RRBs) OFFICER SCALE-I EXAM 2017

Based on Memory

PRELIMINARY EXAMINATION (OBJECTIVE)*

Sr. No.	Name of Tests (Objective)	No. of Questions	Medium of Exam	Maximum Marks	Duration
1.	Reasoning	40	Hindi/English	40	Composite
2.	Quantitative Aptitude	40	Hindi/English	40	time of 45 minutes
	Total	80	PEIL	80	

^{*}Candidates have to qualify in both the tests by securing minimum cut-off marks. Adequate number of candidates in each category, depending upon requirements, will be shortlisted for Online Main Examination.

INSTRUCTIONS

- (1) Time limit to complete this test is 45 minutes no sectional timing.
- (2) It is not necessary for the candidate to attempt the section in order of their arrangement in this test. You can choose to attempt any section first, as per your preference. All questions are compulsory and carry equal marks.
- (3) Do not use calculators, or any electronic medium for calculations. You may take a clean sheet of paper for rough work and all calculations must be performed manually by the candidate.
- (4) There will be penalty for wrong answer marked by you in the objective tests. There are five alternatives in every question of a test.
- (5) For each question for which a wrong answer has been given by you, 1/4 or 0.25 of the marks assigned to that question will be deducted as penalty. If a question is left blank, i.e. no answer is given by you, there will be no penalty for that question.



REASONING

1.	the above arr ZB, XD, UG	rangement? , QK, ?	·	. ,	wing series based or
	(1) LK	(2) LO	(3) LP	(4) KP	(5) None of these
2.		ard and forward)		s according to n	number "46579739' umeric series? (3) Three
3.	letters of the from the rig	e word `ECUAD ht? If more tha	OR' which wou an one such w	ld be the secon	ne 1 st , 2 nd 4 th and 7 th deletter of the word med give 'Y' as the wer (5) M
4.		5527, then how		vill appear twice	to each even in the in the new number (3) 8, 6 and 4
	(4) 2, 4 and	6	(5) None of th	ese	
5.		d in the ascendi	ng order from l (2) Two		ord 'MONSTER' wher (3) Three
	(4) More trial	i illiee	(5) None		
	ections (Qs.6 following qu		e following in	nformation cai	efully and answer
part are box and	icular order. I placed betwe es between H	Box no. 1 is at tent of and B. Bo and G. There a cept above D. Bo	the bottom and x H is placed in are as many bo	box no.8 is at mmediately beloxes between C	ve the other in any the top. Three boxes ow A. There are two and D as between H box D. Three boxes
6.	How many bo (1) 4	oxes are there a (2) 3	bove box D? (3) 6	(4) 2	(5) None of these
7.	Which of the (1) B	following boxes (2) A	is kept at the t (3) D	op? (4) E	(5) None of these
8.	Choose the o (1) B	dd one out? (2) G	(3) A	(4) D	(5) E
9.	Which of the (1) B	following boxes (2) G	is kept betwee (3) C	n F and A? (4) H	(5) None of these

Directions (Qs.11-15): In these questions, relationships between delements are shown in the statements. These statements are follot two conclusions. Give answer (1): If only Conclusion I follows Give answer (2): If only Conclusion II follows Give answer (3): If either Conclusion I or conclusion II follows Give answer (3): If heither Conclusion I nor conclusion II follows Give answer (4): If neither Conclusions I and II follow Give answer (5): If both Conclusions I and II follow 11. Statements: R ≥ S ≥ T > U > X; T < V < W Conclusions: I. R > X II. X < W 12. Statements: E = F < G < H; G ≥ I Conclusions: I. H > I II. E > I 13. Statements: A > B > F > C; D > E > C Conclusions: I. C < A II. B > D 14. Statements: K ≤ L ≤ M = N; P ≥ 0 ≥ N Conclusions: I. K < P II. K = P 15. Statements: D < E < F < G; K > F Conclusions: I. K ≤ G II. K > D Directions (Qs.16-20): Read the following information carefully and the following questions. Seven persons A, B, C, D, E, F and G were born on different months viz. February, March, April, June, August and October of the same year, necessarily in the same order. Only three persons were born before E and D is not one of them. F was rimmediately after E. B was born after F. A was born immediately before the in which G was born. Only two persons were born between G and F. 16. How many persons were born between C and E? (1) Three (2) Two (3) Four (4) Five (5) None of 17. Who amongst the following is the oldest? (1) A (2) C (3) E (4) B (5) F 18. Who amongst the following was born between the months in which were born? (1) E (2) G (3) C (4) B (5) Both E a 19. How many persons were born after D? (1) One (2) Three (3) Four (4) Two (5) None of	
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, ,	and G
	of these

20.	Who amongs less than 30	_	s the person w	ho was born in	the month which has
	(1) F	(2) B	(3) G	(4) C	(5) A
	ections (Qs.2 given questi		the following i	information ca	refully and answer
`card	nt game play	language, ne' is written as card' is written a ' is written as 'd	as 'ja pa ra da'		
21.	What is the c (1) sa	ode for 'time'? (2) da	(3) ja	(4) la	(5) None of these
22.		can be coded a (2) fa ja da		(4) Can't say	(5) None of these
23.	What is the c (1) ra these	ode for `game'? (2)pa	(3) Either ra o	r pag	(4) da(5) None of
24.	Which of the (1) ta	following is the (2) da	code for 'in'? (3) la	(4) fa	(5) None of these
25.	If 'game in r fight'?	isk' is coded as	'pa fa xa' then	what will be th	ne code for 'risk card
	(1) ja sa da	(2) ja da ra	(3) sa da fa	(4) xa ja da	(5) None of these
	ections (Qs.2 stions.	26-30): Study	the following	information to	answer the given
way X ar sout orde each to t bety facin the	that there is and Y are seated. In row 2 - er) and all of the member seated in member seated in the left of A. Eveen S and Eve	an equal distanded (but not necest) - E, F, R, Z, Southern are facing ated in a row factoring the one facing in E does not signed to the right of people sit betweet the context.	ce between adjassarily in the saland U are seat North. Therefoces another me A sits third to tat any of the of B. U does nween B and Y.	acent persons. In the order and a led (but not new left of the other of the other left of S. (a) extreme ends ot sit at any of the one facing	eople each in such a in row 1 – A, B, P, Q, all of them are facing essarily in the same seating arrangement her row. Q sits fourth Only one person sits of the line. The one the extreme ends of B sits second to the mediate neighbour of
26.	ends of both				ole sitting at extreme (5) Q, Y, Z, S
27.	Who amongs (1) Q	t the following for (2) P	aces F? (3) A	(4) X	(5) B

28.	(1) B faces of(2) F sits exa(3) None of t	following is true ne of the immed octly between R he given options nmediate neighb	liate neighbour and E s is true		rmation?
29.	(1) B sits sec(2) F is an im(3) Both P an(4) Only one	following is true cond to the right nmediate neighb nd Y are immedia person sits betw he given options	of X our of the pers ate neighbours veen X and A		
30.	Who amongs (1) F	t the following s (2) U	its second to th	ne right of the p (4) E	erson who faces P? (5) S
	•	31 to 35): St stions given be	-	owing informa	tion carefully and
dist	ance between		necessarily in	the same order	cular table with equal r. Some of them are)
and imm S fa (i.e. vers neigoppe	N (either from nediate right of ces outside and If one neight sa). Only thre nhbour of R.	m, O's right or Conf N. S and N factorial of the conference of the	O's left). S sits some opposite direction of the commentation of the comment of t	second to the rigection (i.e. if Naphbours of Same other also faces Other also faces Other Panaphor M. Both Tanaphor	people sit between O ght of O. T sits to the faces the centre then be the same direction the centre and vicer M is an immediate d Q face a direction d Q face outside and
31.	Who sits exact (1) N	ctly between M a (2) S	and P? (3) R	(4) Q	(5) None of these
32.	How many pe (1) One	eople in the give (2) Three	_	face the centre (4) Four	? (5)None of these
33.	Who sits second (1) O	ond to the right (2) Q	of T? (3) S	(4) R	(5) None of these
34.	arrangement				on the given seating ses not belong to that
	group? (1) P	(2) 0	(3) T	(4) M	(5) Q
35.	•	osition with resporther the left he right		_	(3) Third to the left

Directions (Qs.36 to 40): In each question below are given some statements followed by two conclusions numbered I and II. 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.

Give answer (1): If only Conclusion I follows Give answer (2): If only Conclusion II follows

Give answer (3): If either Conclusion I or II follows Give answer (4): If neither Conclusion I nor II follows Give answer (5): If both Conclusions I and II follow

36. Statements: All bags are purses

No purse is black All blacks are covers

Conclusions: I. All bags are covers

II. Some covers are purses

37. Statements: Some cats are rats

Some rats are fishes All fishes are birds

Conclusions: I. Some fishes are rats

II. All cats being birds is a possibility

38. Statements: Some flowers are roses

No rose is red All red are leaves

Conclusions: I. Some flowers are definitely not red

II. Some leaves are definitely not roses

39. Statements: All cards are sheets

All files are cards

Some sheets are papers

Conclusions: I. All files being papers is a possibility

II. All files are not sheets

40. Statements: Some flowers are roses

No rose is red All red are leaves

Conclusions: I. Some flowers are not leaves

II. No leave is red

QUANTITATIVE APTITUTE

41. There are 3 consecutive odd numbers and 3 consecutive even numbers. The smallest even number is 9 more than largest odd number. If the square of average of all the 3 given odd number is 507 less than the square of the average of all the 3 given even number, what is the smallest odd number.

(1) 11

(2) 13

(3) 17

(4) 19

42. A can complete a task in 15 days, B is 50% more efficient than A. Both A and B started working together on the task and after few days B left the task and A finished the remaining $\frac{1}{3}rd$ of the given work. For how many days A and B worked together.

(1) 3

(2)5

(3)4

(4)6

(5)2

43. A boat can travel 9.6 km downstream in 36 min. If speed of the water current is 10% of the speed of the boat in downstream. How much time will boat take to travel 19.2 km upstream.

(1) 2 hours (2) 3 hours

(3) 1.25 hours (4) 1.5 hours

(5) 1 hour

44. A started a business with a initial investment of Rs.1200. 'X' month after the start of business, B joined A with an initial investment of Rs.1500. If total profit was 1950 at the end of year and B's share of profit was 750. Find 'X'

(1) 5 months (2) 6 months (3) 7 months (4) 8 months (5) 9 months

45. Ratio between curved surface area and total surface area of a circular cylinder is 3: 5. If curved surface area is 1848cm³ then what is the height of cylinder.

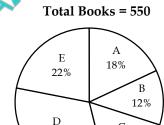
(1) 28

(2) 14

(3)17

(4)21

Directions (Qs.46-50): Given below is the pie chart which shows the percentage distribution of a book 'XYZ' publishes in 5 different stores.



32%

46. If number of female who bought the books in store E are 21 more than number of males who bought books from same store then find the number of females who bought book in store E.

16%

(1)75

(2)78

(3)71

(4)68

(5)73

47. Find the central angle for the book D.

(1) 117.5°

(2) 115.2° (3) 112.8°

(4) 108.5°

 $(5)\ 118.8^{\circ}$

48. If total books of another publisher 'MNP' is 20% more than books of 'XYZ' publisher then what will be total books sold by store A and B for publisher 'MNP'. Percentage-distribution for different stores for MNP remains same as for 'XYZ'

(1)200

(2) 178

(3) 181

(4) 186

(5)198

49. What is the ratio of total books sold by store A and C together to the total books sold by store D and E together

(1) 17:27 (2) 18:29

(3) 21 : 28

(4) 22 : 23

(5)24:29

50. What is the difference between average of book sold by store A and E together and average books sold by store C and D together?

(1) 33

(2) 11

(3)22

(4)44

(5)20

Directions (Qs.51-55): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and

Give answer (1): if x > y

Give answer (2): if $x \ge y$

Give answer (3): if x < y

Give answer (4): if $x \le y$

Give answer (5): if x = y or no relationship can be established.

51. I.
$$x^2 + 9x + 20 = 0$$

II.
$$v^2 = 16$$

52. I.
$$x^2 - 7x + 12 = 0$$

II.
$$3y^2 - 11y + 10 = 0$$

53. I.
$$x^2 - 8x + 15 = 0$$

II.
$$y^2 - 12y + 36 = 0$$

54. I.
$$2x^2 + 9x + 7 = 0$$

II.
$$y^2 + 4y + 4 = 0$$

55. I.
$$2x^2 + 15x + 28 = 0$$

II.
$$2y^2 + 13y + 21 = 0$$

56. Train A completely crosses train B which is 205m long in 16 second. If they are travelling in opposite direction and sum of speed of both are 25 m/s. then find the difference (in meter) between lengths of both trains.

(1)5

- (2)6
- (3)8
- (4) 10
- (5)12
- 57. A trader mixes 14 kg rice of variety A which costs Rs.60/kg with 18 kg of quantity of type B rice. He sells the mixture at Rs.65/Kg and earns a profit of $\frac{100}{3}$ %, then what was the cost price of type B rice.

(1) 30

- (2)20
- (3)40
- (4) 50
- (5)45
- **58**. Present age of A is 3 years less than present age of B. Ratio of B's age 5 years ago and A's age 4 years hence is 3: 4 then find present age (in years) of A.

(1) 20

- (3)23
- (4) 26
- (5)29

- 59. A bag contains 6 Red, 5 Green and 4 Yellow coloured balls. 2 balls are drawn at random after one another without replacement then what is the probability that atleast one ball is Green. (3) $\frac{3}{8}$ (4) $\frac{4}{7}$ (5) $\frac{2}{7}$ (2) $\frac{4}{5}$
- 60. Cost price of B is 200 more than cost price of A. B is sold at 10% profit and A is sold at 40% loss and selling price of A and B are in the ratio 4:11. If A is sold at 20% loss then what will be selling price of A?
 - (1) 320
- (2)400
- (3)240
- (4) 160
- (5)360

Directions (Qs.61-65): Read the following table carefully and answer the following questions.

No. of students and % of students passed out of those who appeared are given for two subjects from year 2001 to 2005 in a college XYZ.

	Statis	stics	Economics		
Year	No. of students appeared	% of students passed	No. of students Appeared	3 % of students Passed	
2001	2200	45%	4200	40%	
2002	2700	55%	3800	45%	
2003	2500	35%	2600	60%	
2004	3200	65%	4800	55%	
2005	4800	60%	2200	50%	

- 61. Find the average number of students who were failed in Economics in year 2002 and year 2003 together?
 - (1) 1435
- (2) 1565 (3) 1720
- (4) 1590
- (5) None of these
- 62. Number of students failed in Statistics in the year 2003 is what % of the number of students failed in Economics in the same year?
 - (1) 145.75% (2) 150%
- (3) 156.25% (4) 158.25%
- (5) None of these
- 63. Find the ratio between the total number of students appeared in Economics from 2002 to 2004 together and the total number of students appeared in Statistics from year 2003 to 2005 together?
 - (1) 13:14
- (2) 14:13
- (3) 15:16
- (4) 16:15
- (5) None of these
- 64. Find the difference between the total number of students passed in Statistics from year 2002 and total number of students failed in Economics from year 2005.
 - (1)690
- (2)385
- (3)485
- (4) 550
- (5)610
- 65. Find the average number of students appeared in Economics from year 2001 to 2004 together?
 - $(1)\ 3090$
- $(2)\ 3015$
- (3) 3060
- (4) 3075
- (5) 3850

Directions (Qs.66-70): What approximate value should come in place of question mark (?) in the following questions? (Note: You are not expected to calculate the exact value)

- **66.** ? % of $(5284.89 \div 7.08) = 986.01 533.06$
 - (1)42
- (2)39
- (3)74
- (4)65
- (5)60

- **67**. $(1041.84 + ?) \div 3.02 = 1816.25 \div 4.01$
 - (1) 442
- (2) 337
- (3) 385
- (4) 268
- (5) 320

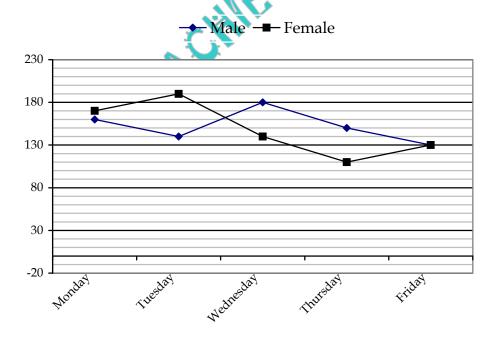
- **68.** 69.3% of $445.12 \div 14.06 = 623.08 \div ?$
 - (1) 28
- (2) 19
- (3) 21
- (4) 33
- (5) 37

- **69.** $?^2 + 114.09 24.06 \times 5.14 = 163.19$
 - (1) 7
- (2) 13
- (3) 11
- (4) 15
- (5) 19

- **70.** $768.16 \div 11.87 \times \sqrt{257} 58.05 = ?$
 - (1) 1033
- (2) 1175
- (3)966

Directions (Qs.71-75): Study the following line graph carefully and answer the following questions.

Number of males and number of females are given. They are visiting a place from Monday to Friday.



- 71. Find the ratio of the total number of males visited the place on Tuesday and Thursday together to the total number of females visited the place on Monday and Friday together?
 - (1) 29 : 30
- (2) 30 : 29 (3) 25 : 26
- (4) 26 : 25
- (5) None of these

72. Total number of males and females together visited the place on Tuesday are what percent more/less than the total number of male and females together visited the place on Thursday?

(1) $26\frac{12}{13}\%$ (2) $25\frac{3}{13}\%$ (3) $26\frac{3}{13}\%$ (4) $25\frac{7}{13}\%$ (5) None of these

73. Find the difference between the total number of females visited the place from Monday to Wednesday and the total number of males visited the place from Wednesday to Friday?

(1) 30

(2)60

(3)40

(4)50

(5) None of these

74. If on Saturday the number of males and number of females increased by 25% and 20% respectively as compared to that on Friday then find the total number of males and females together visited the place on Saturday?

(1) 196

(2) 306

(3) 316

75. Total number of males and females visited the place on Monday and Tuesday together is how much more than the total number of males and females visited the place on Thursday and Friday together?

(2) 125

(4) 160

(5)130

Directions (Qs.76-80): What should come in place of the question mark (?) in the following number series problems?

76. 190, 94, 46, 22, ?, 4

(1) 12

(2) 14

(4) 8

(5) None of these

77. 5, 28, 47, 64, 77, ?

(1) 84 (2) 86

(4)88

(5) None of these

78. 7, 4, 5, 12, 52, ?

(1) 424

(3)318

(4)440

(5) None of these

79. 6, 4, 5, 11, 39,

(1) 159

(3) 189

(4) 198

(5) None of these

80. 89, 88, 85, 78, 63, ?

(1) 30

(2) 34

(3)36

(4) 32

(5) None of these

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ANSWERS

1. Ans (3): LP

$$Z_{-2} \rightarrow X_{-3} \rightarrow U_{-4} \rightarrow Q_{-5} \rightarrow L/B_{+2} \rightarrow D_{+3} \rightarrow G_{+4} \rightarrow K_{+5} \rightarrow P$$

Ans (4): More than three

3. Ans (1): Y

RACE, CARE

4. Ans (3): 8, 6 and 4

9 4 3 6 5 2 7

8 6 2 8 **4** 4 6

5. Ans (1): One

$$M \ O \ \underset{\scriptstyle \bullet}{\textbf{N}} \ S \ T \ E \ R$$

E M NORST

For (Qs.6 to 10):

(3): 8, 6 and 4 3 6 5 2 7 2 8 4 4 6		
(1): One		Cal Par
ONSTER		
M NORST		
to 10):		
Number	Box	
	DUX	
8	В	
		T.
8	В	
8 7	B C	
8 7 6	B C	
8 7 6 5	B C	
8 7 6 5 4	B C G F	

There are six boxes above the box D

7. Ans (1): B

Box B is placed at the top

8. Ans (5): E

Except E, all of them are kept at even number places

9. Ans (5): None of these

None of them sits between F and A. Box F is immediately above box A

10. Ans (5): None of these

Two boxes are there between Box C and A

11. Ans (5): Both Conclusions I and II follow

 $R \ge S \ge T > U > X ; W > V > T$

Conclusions: I. $R > X (\checkmark)$ II. $X < W (\checkmark)$

12. Ans (1): Only Conclusion I follow

 $E = F < G \ge I$; H > G

II. $E > I (\times)$ Conclusions: I. $H > I (\checkmark)$

13. Ans (1): Only Conclusion I follow

A > B > F > C < E < D

Conclusions: I. $C < A(\checkmark)$ II. B > D(x)

14. Ans (3): Either Conclusion I or Conclusion II follows

 $K \le L \le M = N \le O \le P$

Conclusions: I. K \leq P ($\times \checkmark$) II. $K = P(\times \checkmark)$

15. Ans (2): Only Conclusion II follows

D < E < F < G; F < K

Conclusions: I. $K \le G(x)$ II. K > D(x)

For (Qs.16 to 20):

Conclusions: I. K ≤	G(x) II. $K > D$	(✓)
(Qs.16 to 20):		Au
Month	Person] ~ E(3)
January	С	
February	A	
March	G	° °
April	E	
June	D	
August	F	
October	В	X • 1
Ans (2): Two A and G sit between C	and E	
Ans (2): C		

16. Ans (2): Two

17. Ans (2): C

C was born in the month of January. So, C is the oldest

18. Ans (5): Both E and G

Both E and G were born between A and D

19. Ans (4): Two

D was born in the month of June. Two persons were born after D

20. Ans (5): A

A was born in the month of February, which has 28 days

For (Qs.21 to 25):

Word	card	time	win/team	fight	game/play	in
Code	ja	sa	la/ta	da	pa/ra	fa

21. Ans (1): sa

The code for 'time' is 'sa'

22. Ans (2): fa ja da

The code for 'fight' is 'da'. The code for 'card' is 'ja'. The code for 'in' is 'fa'

23. Ans (3): Either ra or pa

The code for 'Game' is either 'ra' or 'pa'

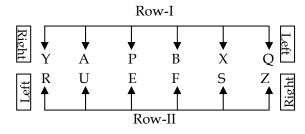
24. Ans (4): fa

The code for 'in' is 'fa'

25. Ans (4): xa ja da

The code for 'fight' is 'da'. The code for 'card' is 'ja'. The code for 'risk' may be 'xa'.

For (Qs.26 to 30):



26. Ans (1): Q, Y, Z, R

Q, Y, Z and R are extreme ends of both the rows

27. Ans (5): B

F faces B

28. Ans (5): A faces U

B faces one of the immediate neighbour of S. F sits exactly between E and S. A is not an immediate neighbour of B.

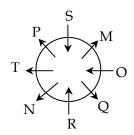
29. Ans (2): F is an immediate neighbour of the person who faces X

B is an immediate neighbour of X. Both P and Y are immediate neighbour of A. Two persons sit between X and A.

30. Ans (5): S

P faces E. S is second to the right of E

For (Qs.31 to 35):



31. Ans (2): S

S sits exactly between M and P

32. Ans (2): Three

S, O and R are facing centre

33. Ans (3): S

T faces outside. S is second to the right of T

34. Ans (2): O

Except O, all of them are facing outside

35. Ans (3): Third to the left

R faces centre. P is third to the left of R

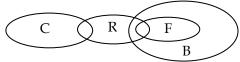
36. Ans (4): neither conclusion I nor II follows



Conclusions: I. All bags are covers (×)

II. Some covers are purses (×)

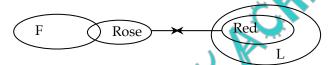
37. Ans (5): both conclusions I and II follow



I. Some fishes are rats (\checkmark) **Conclusions:**

Some II. All cats being birds is a possibility

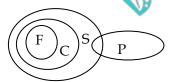
38. Ans (5): both conclusions I and II follow



Conclusions: I. Some flowers are definitely not red (\checkmark)

II. Some leaves are definitely not roses (\checkmark)

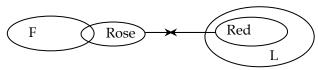
39. Ans (1): only conclusion I follows



I. All files being paper is a possibility (\checkmark) **Conclusions:**

II. All files are not sheets (×)

40. Ans (4): neither conclusion I nor II follows



Conclusions: I. Some flowers aren't leaves (×)

II. No leave is red (×)

41. Ans (1): 11

Let a consecutive odd numbers = x - 2, x and x + 2and consecutive even numbers = y – 2, y, y + 2

So,
$$y - 2$$
, = $9 + x + 2$; $y - x = 13$... (i) and

$$(x)^{2} + 507 = (y)^{2}$$
; $y^{2} - x^{2} = 507$; $(x + y)(y - x) = 507$

$$(x+y) = \frac{507}{13} \Rightarrow x + y = 39$$
 .(ii)

Solving (i) and (ii) y = 26 and x = 13

so smallest odd number = x - 2 = 13 - 2 = 11

42. Ans (3): 4

A complete work in 15 days

B will complete work in 10 days

They together will complete whole work = $\frac{15 \times 10}{25}$ = 6 days

A and B together worked for $= 6 \times \frac{2}{3} = 4 \text{ days}$

43. Ans (4): 1.5 hours

Speed of downstream = $\frac{9.6}{36}$ km/min = 16km/hr

Speed of current = 1.6 km/hr

Speed of man in still water = 16 - 1.6 = 14.4 km/hr

:. Required time in upstream =
$$\frac{19.2}{14.4 - 1.6} = \frac{19.2}{12.8} = 1.5 \text{ hours}$$

44. Ans (2): 6 months
$$\frac{A}{B} \Rightarrow \frac{1200 \times 12}{1500 \times x} = \frac{1200}{750} \Rightarrow x = 6 \text{ months}$$

45. Ans (4): 21

$$\frac{2\pi rh}{2\pi r(r+h)} = \frac{3}{5} = 5h = 3r + 3h; 2h = 3r \text{ and } 2\pi rh = 1848$$

$$2\pi rh = 1848 \Rightarrow 2 \times \frac{22}{7} \times \frac{2}{3} \times h \times h = 1848 \Rightarrow h = 21$$

$$2\pi rh = 1848 \Rightarrow 2 \times \frac{22}{7} \times \frac{2}{3} \times h \times h = 1848 \Rightarrow h = 21$$

46. Ans (3): 71

Let male who purchased book from Store E = x

Then
$$x + x + 21 = \frac{22}{100} \times 550 \Rightarrow 2x + 21 = 121 \Rightarrow x = 50$$

Required number of females = 50 + 21 = 71

47. Ans (2): 115.2°

Central angle of Book D = $\frac{32}{100} \times 360^{\circ} = 115.2$

48. Ans (5): 198

Total books of store XYZ = $\frac{120}{100} \times 550 = 660$

Total books sold by store A and B = (18% + 12%) of 660 = 30% of 660 = 198

49. Ans (1): 17:27

 \therefore Required ratio = (18% + 16%) : (32% + 22%) = 34 : 54 = 17 : 27

50. Ans (3): 22

:. Required difference = $\frac{1}{2}[(32\% + 16\%) - (18\% + 22\%)]550 = \frac{1}{2} \times 8\% \text{ of } 550 = 4\% \text{ of } 550 = 22$

E. P. C. C.

51. Ans (4): $x \le y$

I.
$$SR = -9$$
, $PR = 20 \Rightarrow x = -4$, -5

II.
$$y^2 = 16 \Rightarrow y = +4,-4$$

52. Ans (1): x > y

I. SR = 7, PR =
$$12 \Rightarrow x = 4, 3$$

II. SR = 11, PR = 30
$$\Rightarrow y = \frac{6}{3}, \frac{5}{3} \Rightarrow y = 2,1.67$$

53. Ans (3): x < y

I. SR = 8, PR =
$$15 \Rightarrow x = 3, 5$$

II. SR = 12, PR =
$$36 \Rightarrow y = 6, 6$$

54. Ans (5): no relationship can be established

I. SR = -9, PR =
$$14 \Rightarrow x = \frac{-7}{2}, \frac{-2}{2} \Rightarrow x = -3.5, -1$$

II. SR = -4, PR = $4 \Rightarrow y = -2, -2$

II.
$$SR = -4$$
, $PR = 4 \Rightarrow y = -2$, -2

55. Ans (4): $x \le y$

I. SR = -15, PR =
$$56 \Rightarrow x = \frac{-7}{2}, \frac{-8}{2} \Rightarrow x = -3.5, -4$$

II. SR = -13, PR =
$$42 \Rightarrow y = \frac{-6}{2}, \frac{-7}{2} \Rightarrow y = -3, -3.5$$

56. Ans (4): 10

In 16 second distance covered by both = $16 \times 25 = 400$ m

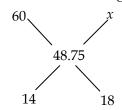
So length of A = 400 - 205 = 195

 \therefore Required difference = (205 - 195) = 10 m

57. Ans (3): 40

Let cost price of mixture = y; So, $\frac{4}{3}y = 65$; y = 48.75

From mixture and allegation



$$\frac{7}{9} = \frac{48.75 - x}{60 - 48.75}$$

$$78.75 = 438.75 - 9x$$
; $360 = 9x$; $x = Rs.40 \text{ kg}$

58. Ans (1): 20

Let B's age = x;
So A's age = x - 3;

$$\frac{B}{A} = \frac{x-5}{x-3+4} = \frac{3}{4} \Rightarrow \frac{x-5}{x+1} = \frac{3}{4}$$

A
$$x-3+4$$
 4 $x+1$ 4 $x=23$; A's age = 23 - 3 = 20 years

$$x = 23$$
; A's age = 23 - 3 = 20 years

59. Ans (4): $\frac{4}{7}$

Probability that no ball is green =
$$\frac{10_{C_1}}{15_{C_1}} \times \frac{9_{C_1}}{14_{C_1}} = \frac{10 \times 9}{15 \times 14} = \frac{3}{7}$$

$$\therefore$$
 Required probability = $1 - \frac{3}{7} = \frac{4}{7}$

60. Ans (1): 320

Let C.P. of A =
$$x$$
; So C.P. of B = $x + 200$

$$\frac{\text{S.P of B}}{\text{S.P of A}} = \frac{\frac{110}{100}(x + 200)}{\frac{60}{100}x} = \frac{11}{4} \Rightarrow \frac{x + 200}{6x} = \frac{1}{4} = 400$$

If it is sold at 20% loss then selling price =
$$\frac{80}{100} \times 400 = 320$$

61. Ans (2): 1565

Ans (2): 1565

No. of students failed in Economics in year
$$2002 = \frac{(100 - 45)}{100} \times 3800 = 2090$$

No. of students failed in Economics in year
$$2003 = \frac{(100 - 60)}{100} \times 2600 = 1040$$

:. Required average =
$$\frac{2090 + 1040}{2}$$
 = 1565

62. Ans (3): 156.25%

No. of students failed in Statistics in year
$$2003 = \frac{100 - 35}{100} \times 2500 = 1625$$

No. of students failed in Economics in year
$$2003 = \frac{100 - 60}{100} \times 2600 = 1040$$

:. Required% =
$$\frac{1625}{1040} \times 100 = 156.25\%$$

63. Ans (4): 16: 15

Total no. of students appeared in Economics from 2002 to
$$2004 = 3800 + 2600 + 4800 = 11200$$

Total no. of students appeared in Statistics from 2003 to $2005 = 2500 + 3200 + 4800 = 10500$
 \therefore Required ratio = $11,200:10,500 = 16:15$

64. Ans (2): 385

Total no. of students passed in Statistics in year 2002 =
$$\frac{55}{100} \times 2700 = 1485$$

Total no. of students failed in Economics in year
$$2005 = \frac{50}{100} \times 2200 = 1100$$

65. Ans (5): 3850

Average no. of students appeared in Economics from year 2001 to 2004 together $= \frac{4200 + 3800 + 2600 + 4800}{4} = \frac{15400}{4} = 3850$

66. Ans (5): 60

$$\frac{?}{100} \times \frac{5285}{7} = 453 \Rightarrow \frac{?}{100} \times 755 = 453 \Rightarrow ? \approx 60$$

67. Ans (5): 320

$$\frac{(1042+?)}{3} = \frac{1816}{4} \Rightarrow 1042 + ? = 454 \times 3 \Rightarrow ? = 1362 - 1042 = 320$$

$$\frac{69}{100} \times \frac{445}{14} = \frac{623}{?} \Rightarrow ? = \frac{623 \times 14 \times 100}{69 \times 445} \Rightarrow ? \approx 28$$

69. Ans (2): 13

$$?^2 + 114 - (24 \times 5) = 163 \Rightarrow ?^2 = 163 + 120 - 114 = 169 \Rightarrow ? = 13$$

70. Ans (3): 966

100 14 ?
$$69 \times 445$$

Ans (2): 13
$$?^{2} + 114 - (24 \times 5) = 163 \Rightarrow ?^{2} = 163 + 120 - 114 = 169 \Rightarrow ? = 13$$
Ans (3): 966
$$? = \frac{768}{12} \times 16 - 58 \Rightarrow ? = 1024 - 58 \Rightarrow ? = 966$$

71. Ans (1): 29:30

Total no. of males visited on Tuesday and Thursday = 140 + 150 = 290 Total no. of females visited on Monday and Friday = 170 + 130 = 300 ∴ Required ratio = 290 : 300 = 29 : 30

72. Ans (1): $26\frac{12}{12}\%$

Total no. of males and females together on Tuesday = 140 + 190 = 330Total no. of males and females together on Thursday = 150 + 110 = 260

:. Required
$$\% = \frac{330 - 260}{260} \times 100 = 26 \frac{12}{13} \%$$

73. Ans (4): 50

Total no. of females visited from Monday to Wednesday = 170 + 190 + 140 = 500Total no. of males visited from Wednesday to Friday = 180 + 150 + 120 = 450 \therefore Required difference = 500 - 450 = 50

74. Ans (2): 306

On Saturday: Total no. of males visited the place = $\frac{125}{100} \times 120 = 150$

Total no. of females visited the place = $\frac{120}{100} \times 130 = 156$

 \therefore Required males and females = 150 + 156 = 306

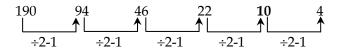
75. Ans (3): 150

Total males and females visited the place on Monday and Tuesday together =160 + 140 + 170 + 190 = 660

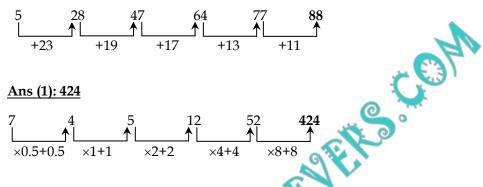
Total males and females visited the place on Thursday and Friday together = 150 + 120 + 110 + 130 = 510

 \therefore Required no. of persons = 660 - 510 = 150

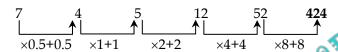
76. Ans (3): 10



77. Ans (4): 88



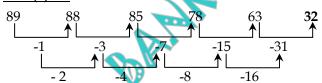
78. Ans (1): 424



79. Ans (3): 189



80. Ans (4): 32



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"PRACTICE MAKES PROGRESS...!

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