RRB Clerk Pre 2022 (14th August) Shift-Wise Previous Year Papers Mock 09

Directions (1-2): Study the following information carefully and answer the questions given below

Point N is 8m to the west of Point O. Point P is 4m to the south of Point O. Point Q is 4m to the east of Point P. Point R is 6m to the north of Point Q. Point S is 8m to the west of Point R. Point T is 2m to the south of Point S.

Q1. In which direction is point P with respect to point T?

(a) South-West
(b) North-East
(c) South-East
(d) North-West
(e) None of these

Q2. What is the shortest distance between point S and point Q?

(a) 15m
(b) 13m
(c) 12m
(d) 10m
(e) None of these

Q3. How many such pairs of letters are there in the meaningful word 'CAPABILITY' each of which has as many letters between them as in the English alphabet (From both backward and forward)?

(a) Two
(b) One
(c) More than three
(d) Three
(e) None of these

Directions (4-8): Study the following information and answer the questions given below:

There are seven friends P, Q, R, S, T, U and V. Each of them has an entrance exam in a week starting from Monday to Sunday, but not necessarily in the same order. Only one friend has an entrance exam on each day.

Three friends have an entrance exam between P and U. U has an entrance exam after Thursday. Only one friend has an entrance exam between P and V whose exam is before P. Two friends have an entrance exam between V and Q. Only one friend has an entrance exam between Q and T. S has an entrance exam just after R.

Q4. On which of the following day S has the entrance exam?

(a) Sunday
(b) Wednesday
(c) Friday
(d) Saturday
(e) None of these

Q5. Who among the following has an entrance exam on Tuesday?

(a) V
(b) T
(c) R
(d) P
(e) None of these

Q6. How many friends have an entrance exam between P and R?

(a) Two
(b) No one
(c) One
(d) Three
(e) Four

Q7. Which of the following statement(s) is/are true regarding Q?

(a) Q has exam just before R.
(b) Q has exam on Friday.
(c) Q has exam just after S.
(d) Q has exam on Wednesday.
(e) All are true

Q8. Four of the following five belong to a group in a certain way, find which of the one does not belong to that group?

(a) T-Tuesday
(b) U-Saturday
(c) T-Wednesday
(d) R-Saturday
(e) Q-Friday

Directions (9-12): Study the information and answer the following questions:

In a certain code language:
'Surging Price Fuel Push' is written as 'el or mb cn'
'Inflation record higher ever' is written as 'tz vc xa yc'
'Fuel and Power Inflation' is written as 'lv cn ob tz'
'Fuel Push and ever' is written as 'ob xa el cn'

Q9. What is the code for 'higher' in the given code language?

(a) tz
(b) vc
(c) xa
(d) Cannot be determined
(e) yc

Q10. What is the code for 'Push' in the given code language?

(a) el
(b) mb
(c) or
(d) cn
(e) None of these

Q11. What is the code for 'and' in the given code language?
(a) lv
(b) cn
(c) tz
(d) ob
(e) None of these

Q12. What will be the possible code for 'fire record' in the given code language?
(a) yu yc
(b) yc cn
(c) vc yc
(d) yc lv
(e) vc cn

Directions (13-17): Study the information carefully and answer the questions given below.
Eight delegates of the different countries attend meeting on two different dates 17th and 24th of the four different months i.e., July, August, September and October of the same year.
Q attends meeting in September. Three persons attend meeting between Q and T. Equal number of persons attend meeting after T and before R. More than one person attend meeting between R and S who does not attend meeting on odd number date. One person attends meeting between P and W. Equal number of persons attend meeting after V and before U who attends meeting on an odd number date. P does not attend meeting in the same month as Q.

Q13. Who among the following attends meeting on 17th October?
(a) R
(b) W
(c) P
(d) U
(e) None of these

Q14. How many persons attend meeting between P and V?
(a) One
(b) More than three
(c) Two
(d) Three
(e) None of these

Q15. Which of the following statement is true about S?
(a) S attends meeting in September
(b) U attends meeting immediate after S
(c) S attends meeting immediate after P
(d) Two person attends meeting between S and Q
(e) None of these

Q16. Who among the following attend meeting just after R?
(a) W
(b) U
(c) P
(d) V
(e) None of these

Q17. Four of the following five are alike in a certain way so form a group, who among the following does not belong to that group?
(a) T
(b) S
(c) Q
(d) V
(e) P

Directions (18-22): In each of the questions below some statements are given followed by some Conclusions. You have to take the given statements to be true even if they seem to be at variance from 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.

Q18. Statements:
All Kiwi are Mango
All Mango are Orange
Only a few Orange are Papaya
Conclusion:
I. All Kiwi are Papaya
II. Some Papaya being Mango is a possibility
(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.

Q19. Statements:
Only a few Pink are Grey
No Grey are Black
All Black are Blue
Conclusion:
I. Some Black can be Pink
II. All Blue are Pink
(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.

Q20. Statements:
All Lyrics are Song
No Song is Bad
No Lyrics is Sweet
Conclusions:
I. Some lyrics are not Bad
II. Some Song are not Sweet
(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.

Q21. Statements:
Only a few Book are Pencil
All Pencil are Pen
Some Pen are Student
Conclusions:
I. All Pen is being Book is a possibility.
II. Some Student is being Pencil is a possibility
(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.

Q22. Statements:
No Star are Night
No Night is Sun
All Sun are Earth
Conclusions:
I. Some Earth are Star
II. All Earth are Sun
(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.

Directions (23-25): Study the following information carefully and answer the given questions.
There are six members in a three-generation family i.e., P, Q, R, S, T and U. Among them there are two married couples and only two males. U is the mother-in-law of Q. P who is unmarried and T are siblings. Q's husband has only one child. R is the father of T.

Q23. How is T related to S's grandmother?
(a) Son
(b) Father
(c) Mother
(d) Daughter
(e) None of these

Q24. Who is the daughter-in-law of P's father?
(a) U
(b) Q
(c) T
(d) Cannot be determined
(e) None of these

Q25. If S is married to V, then how V is related to Q?
(a) Father
(b) Brother-in-law
(c) Son-in-law
(d) Cousin
(e) None of these

Directions (26-29): Study the following alphanumeric symbol series carefully and answer the questions given below.
E @ * 4 9 7 @ 4 H 5 V J $ N % M 2 # V 1 & F

Q26. How many such letters are in the above series which are immediately preceded by a number and immediately followed by a symbol?
(a) None
(b) One
(c) Two
(d) Three
(e) More than three

Q27. Which among the following element is 5th from the right if we remove all symbols from the above series?
(a) E
(b) M
(c) 4
(d) 2
(e) None of these

Q28. How many such symbols are in the above series which are immediately preceded by a number and immediately followed by a letter?
(a) None
(b) One
(c) Two
(d) Three
(e) More than three

Q29. What is the sum of the 8th element from left end and 6th element from right end in the above series?
(a) 8
(b) 3
(c) 6
(d) 11
(e) Can't be determined

Q30. Which of the following meaningful word cannot be formed with the help of the letters of 'MANIPULATE'?
(a) Eat
(b) Platinum
(c) Animated
(d) Planet
(e) Animal

Directions (31-34): In these questions, relationship between different elements is show in the statements. The statements are followed by conclusions. Study the conclusions based on the given statements and select the appropriate answer:

Q31.
Statements:
$L = X \geq A > Y < N \leq O$
Conclusions:
I. $A < O$
II. $L > Y$
(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.

Q32.
Statements:
$E = H \leq T > C > A \leq B$
Conclusions:
I. $C < E$
II. $C \geq H$
(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.

Q33.
Statements:
$R > G < T \geq Q \leq P$
Conclusions:
I. $R > Q$
II. $Q \leq R$
(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.

Q34.
Statements:
$M < R > A \geq Z = P > S$
Conclusions:
I. $R > S$
II. $M < P$
(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.

Q35. If all the digits of the given number '568941372' are arranged in descending order from left to right, then how many digits remain in the same position after arrangement?
(a) Two
(b) One
(c) None
(d) Three
(e) Four

Directions (36-39): Study the following information carefully and answer the questions given below.
Eight persons M, N, O, P, D, E, F and G are sitting in two parallel rows containing four persons in each row in such a way that there is an equal distance between adjacent persons. Persons of row-1 are seated and all of them are facing South. Persons of row -2 are seated and all of them are facing North. Persons of row-1 faces the persons of row-2 and vice versa.
N faces the person who is an immediate neighbour of O. One person sits between F and G. P sits diagonally opposite to E. F sits 3rd to the left of E. Both E and N are sitting in same row. M faces north and does not sit at an extreme end.

Q36. Who among the following sits 2nd to the left of E?
(a) M
(b) N
(c) O
(d) D
(e) None of these

Q37. Who among the following faces D?
(a) M
(b) N
(c) O
(d) P
(e) None of these

Q38. Who sits immediate left of the person who faces D?
(a) E
(b) F
(c) M
(d) N
(e) None of these

Q39. Who among the following sit at an extreme end?
(a) Both D and G
(b) N
(c) O
(d) D
(e) G

Q40. Which of the following meaningful word can be formed with the help of the letters of 'SCHOOL'?
(a) Cohl
(b) Scol
(c) Losh
(d) Sool
(e) None of these

Directions (41-45): In each of these questions a number series is given. In each series only one number is wrong. Find out the wrong number.

Q41. 60, 30, 30, 45, 90, 225, 725
(a) 225
(b) 60
(c) 90
(d) 725
(e) 45

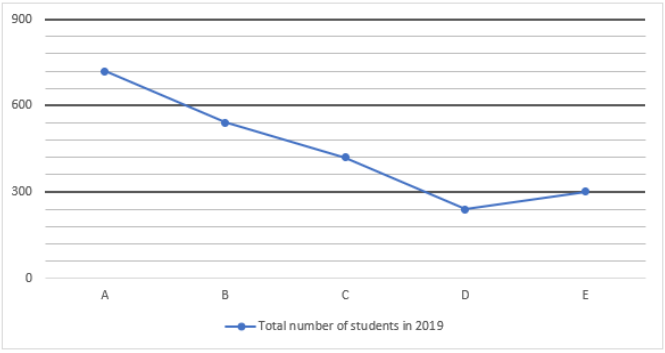
Q42. 17, 29, 50, 83, 127, 182, 248
(a) 29
(b) 83
(c) 182
(d) 248
(e) 50

Q43. 2, 8, 26, 80, 242, 728, 2188
(a) 242
(b) 2188
(c) 2
(d) 728
(e) 8

Q44. 7.1, 7.7, 8.9, 10.7, 13.1, 16.1, 19.8
(a) 7.1
(b) 13.1
(c) 16.1
(d) 10.7
(e) 19.8

Q45. 2, 4, 9, 18, 36, 62, 99
(a) 99
(b) 4
(c) 18
(d) 62
(e) 36

Directions (46-50): Line chart given below shows the total number of students in five different schools (A, B, C, D and E) in 2019. Study the line chart given below and answer the following question.



Q46. Total number of students in school D are what percent more or less than total number of students in school E?
(a) 25%
(b) 15%
(c) 20%
(d) 10%
(e) 30%

Q47. Total number of students in school B are how much more than total number of students in school C?
(a) 120
(b) 150
(c) 180
(d) 90
(e) 210

Q48. Total number of students in school D are what percent of total number of students in school A?
(a) $13\frac{1}{3}\%$
(b) $66\frac{2}{3}\%$
(c) $33\frac{1}{3}\%$
(d) $46\frac{2}{3}\%$
(e) None of the above.

Q49. Find average number of students in school B, C and D.
(a) 450
(b) 360
(c) 420
(d) 400
(e) 380

Q50. If total number of students in school F in 2019 are 50% more than that of in school B in 2019, then find total number of students in school F in 2019.
(a) 810
(b) 840
(c) 820
(d) 800
(e) 830

Q51. A man bought a bike for Rs. 26600 and spent Rs. 1400 on its repairing. If he sold it for Rs. X and made a profit of 12.5%, then find 'X'?
(a) 31500
(b) 30800
(c) 31360
(d) 32200
(e) 30600

Q52. Two types of sugar i.e., 24 kg of Rs. 50 per kg and 16 kg of Rs. 40 per kg. At what price of per kg mixture of sugar was sold so that gain a profit of 25%?
(a) Rs. 52.5
(b) Rs. 44
(c) Rs. 57.5
(d) Rs. 36.8
(e) None of these

Q53. In 6 hours, a boat travels 24 km more along the stream than against the stream. If boat travel 35 km along the stream and come back against the stream in 6 hrs, then what is speed of boat in still water?
(a) 14 km/hr
(b) 12 km/hr
(c) 18 km/hr
(d) 15 km/hr
(e) 16 km/hr

Q54. Average of present age of A, B, C and D is 30 years. B is 14 years older than D and C is 2 years younger than D. Present age of A is equal to average of present age of group. Find the age of C five years ago.
(a) 24 years
(b) 29 years
(c) 19 years
(d) 21 years
(e) 31 years

Q55. A person covers a distance with the speed of 4 m/sec in 1 hr 40 min and 30 sec. find distance covered by him.
(a) 18.6 km
(b) 24.12 km
(c) 21.64 km
(d) 28.8 km
(e) 16.44 km

Q56. If an amount of Rs. 13200 is distributed in three persons such that share of R is half of P and share of Q is one-third of P. Find share of Q and R together?
(a) Rs. 5050
(b) Rs. 6000
(c) Rs. 4660
(d) Rs. 6240
(e) Rs. 5600

Q57. If a certain sum becomes twice in 3 years at certain rate at SI, then find simple interest earned on Rs. 4200 after five years at same rate of interest?
(a) Rs. 7000
(b) Rs. 7500
(c) Rs. 5250
(d) Rs. 4550
(e) Rs. 3750

Q58. An iron bullet of length, breadth and height of 120 cm, 88 cm and 20 cm respectively is made into a cylindrical wire of length 67200 cm. What is the diameter of the wire?
(a) 1 cm
(b) 0.25 cm
(c) 0.5 cm
(d) 2 cm
(e) 1.5 cm

Q59. P and Q enter into a partnership. Q and P invests Rs 9000 and Rs 12000 respectively. Q and P withdrew Rs X and Rs. 2400 after 4 months and 8 months respectively. If profit ratio of P and Q at the end of the year is 168 :125. Find Value of X (in Rs.).
(a) 500
(b) 2000
(c) 2500
(d) 1500
(e) 1000

Q60.The average of marks in 5 subjects obtained by a student is 65. On re calculating it was found that the marks of two subjects were recorded as 58 and 68 instead of 85 and 86 respectively. Find the actual average marks obtained by the student.
(a) 68
(b) 72
(c) 74
(d) 70
(e) 69

Q61. If a number is reduced by 25%, it becomes 150. By what percent should it be increased to make it 250.
(a) 35%
(b) 25%
(c) 45%
(d) 75%
(e) 20%

Q62. The time taken by a train A running at a speed of 54 km/hr to cross another train B of length 700 meters going in opposite direction at the speed of 90 km/h is 't' minutes. Find the value of 't', if train A takes 40 sec to cross a platform of length 100 meters.
(a) 3
(b) 5
(c) 2
(d) 1
(e) 0.5

Q63. A and B can finish a work alone in 10 days and 15 days respectively. They both started work for together, but after 3 days A left the work and remaining work was completed by B alone. If they were paid a total of Rs 6000 for their work, find the wage of A.
(a) Rs 1600
(b) Rs 1800
(c) Rs 1500
(d) Rs 2100
(e) Rs 1200

Directions (64-68): Table given below shows the total number of coolers sold by five different stores and also shows the ratio of the total number of coolers sold to total AC sold by each of these five stores. Read the data carefully and answer the questions.

Stores	Total coolers Sold	The ratio of total cooler sold to total AC sold
P	216	9 : 5
Q	480	6 : 5
R	400	4 : 1
S	300	3 : 1
T	240	3 : 2

Q64. Find the ratio of the total number of AC sold by store R & S together to the total number of AC sold by store P?
(a) 3 : 5
(b) 5 : 3
(c) 5 : 4
(d) 5 : 2
(e) 3 : 2

Q65. Total number of AC sold by store T is what percent less than the total number of AC sold by store Q?
(a) 20%
(b) 80%
(c) 40%
(d) 50%
(e) 60%

Q66. Total number of coolers sold by store S is what percent less than the total number of AC sold by store Q?
(a) 20%
(b) 25%
(c) 30%
(d) 15%
(e) 22%

Q67. Find the average number of AC sold by store P and T.
(a) 160
(b) 120
(c) 100
(d) 140
(e) 130

Q68. If out of total number of AC sold by store Q & R, 40% and 20% ACs respectively are returned by customers (due to defect), then find total number of non-defected AC sold by these two stores together?
(a) 380
(b) 420
(c) 320
(d) 360
(e) 300

Directions (69-80): What will come in place of (?)in the following questions.

Q69. $? = \frac{49}{11} - \sqrt{484} \div \frac{11^2}{8}$
(a) 3
(b) 2
(c) 1
(d) 11
(e) 4

Q70. $? \% \text{ of } 3200 \div \frac{5}{12} of\ 84 = 64$
(a) 70
(b) 30
(c) 35
(d) 60
(e) 50

Q71. $? \div 9 \times 17 = 1156$
(a) 702
(b) 504
(c) 558
(d) 612
(e) 666

Q72. $96 \div 168 \times 588 \div 12 = ?$
(a) 28
(b) 32
(c) 22
(d) 27
(e) 35

Q73. $11\frac{1}{9}\% of\ 873 - ? = \sqrt{2116}$
(a) 60
(b) 51
(c) 55
(d) 58
(e) 49

Q74. $2\frac{4}{7} + 4\frac{1}{3} - 3\frac{2}{3} + \frac{16}{21} = ?$
(a) 4
(b) 5
(c) 3
(d) 7
(e) 6

Q75. $(? \times 48) \div 54 + 8^2 = 96$
(a) 45
(b) 36
(c) 72
(d) 54
(e) 27

Q76. $4520 + 3560 - 2680 + 1680 = ?$
(a) 7050
(b) 7080
(c) 8080
(d) 6080
(e) 5080

Q77. $\frac{11}{23} \times 6969 + 55 \times 20 - 200 = ?$
(a) 4122
(b) 4222
(c) 4233
(d) 4344
(e) 4455

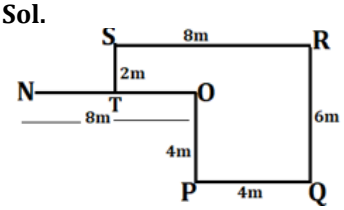
Q78. $\sqrt{256 \times 81 \times 4} - 160 \times 2.5 + 400 = ?$
(a) 248
(b) 348
(c) 358
(d) 288
(e) 378

Q79. $250\%\ of\ 1600 - 320 \times \frac{3}{8} + 1120 = ?$
(a) 3000
(b) 4000
(c) 5000
(d) 6000
(e) 7000

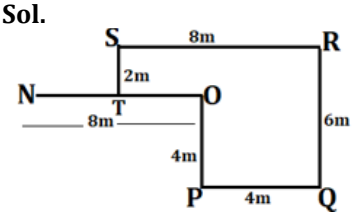
Q80. $5400 - (3 \times 1450 \div 2) + 175 = ?$
(a) 3200
(b) 3400
(c) 3500
(d) 3600
(e) 3700

Solutions

S1. Ans.(c)
Sol.



S2. Ans.(d)
Sol.



S3. Ans.(a)
Sol.

CAPABILITY

S4. Ans.(d)
Sol. From the given statements, three friends have entrance exam between P and U. U has entrance exam after Thursday. Only one friend has an entrance exam between P and V whose exam is before P.

Days	Friends
Monday	V
Tuesday	
Wednesday	P
Thursday	
Friday	
Saturday	
Sunday	U

Two friends have an entrance exam between V and Q. Only one friend has an entrance exam between Q and T.

Days	Friends
Monday	V
Tuesday	T/
Wednesday	P
Thursday	Q
Friday	
Saturday	T/
Sunday	U

S has an entrance exam just after R. So final arrangement will be-

Days	Friends
Monday	V
Tuesday	T
Wednesday	P
Thursday	Q
Friday	R
Saturday	S
Sunday	U

S5. Ans.(b)

Sol. From the given statements, three friends have entrance exam between P and U. U has entrance exam after Thursday. Only one friend has an entrance exam between P and V whose exam is before P.

Days	Friends
Monday	V
Tuesday	
Wednesday	P
Thursday	
Friday	
Saturday	
Sunday	U

Two friends have an entrance exam between V and Q. Only one friend has an entrance exam between Q and T.

Days	Friends
Monday	V
Tuesday	T/
Wednesday	P
Thursday	Q
Friday	
Saturday	T/
Sunday	U

S has an entrance exam just after R. So final arrangement will be-

Days	Friends
Monday	V
Tuesday	T
Wednesday	P
Thursday	Q
Friday	R
Saturday	S
Sunday	U

S6. Ans.(c)

Sol.

From the given statements, three friends have entrance exam between P and U. U has entrance exam after Thursday. Only one friend has an entrance exam between P and V whose exam is before P.

Days	Friends
Monday	V
Tuesday	
Wednesday	P
Thursday	
Friday	
Saturday	
Sunday	U

Two friends have an entrance exam between V and Q. Only one friend has an entrance exam between Q and T.

Days	Friends
Monday	V
Tuesday	T/
Wednesday	P
Thursday	Q
Friday	
Saturday	T/
Sunday	U

S has an entrance exam just after R. So final arrangement will be-

Days	Friends
Monday	V
Tuesday	T
Wednesday	P
Thursday	Q
Friday	R
Saturday	S
Sunday	U

S7. Ans.(a)

Sol. From the given statements, three friends have entrance exam between P and U. U has entrance exam after Thursday. Only one friend has an entrance exam between P and V whose exam is before P.

Days	Friends
Monday	V
Tuesday	
Wednesday	P
Thursday	
Friday	
Saturday	
Sunday	U

Two friends have an entrance exam between V and Q. Only one friend has an entrance exam between Q and T.

Days	Friends
Monday	V
Tuesday	T/
Wednesday	P
Thursday	Q
Friday	
Saturday	T/
Sunday	U

S has an entrance exam just after R. So final arrangement will be-

Days	Friends
Monday	V
Tuesday	T
Wednesday	P
Thursday	Q
Friday	R
Saturday	S
Sunday	U

S8. Ans.(a)

Sol. From the given statements, three friends have entrance exam between P and U. U has entrance exam after Thursday. Only one friend has an entrance exam between P and V whose exam is before P.

Days	Friends
Monday	V
Tuesday	
Wednesday	P
Thursday	
Friday	
Saturday	
Sunday	U

Two friends have an entrance exam between V and Q. Only one friend has an entrance exam between Q and T.

Days	Friends
Monday	V
Tuesday	T/
Wednesday	P
Thursday	Q
Friday	
Saturday	T/
Sunday	U

S has an entrance exam just after R. So final arrangement will be-

Days	Friends
Monday	V
Tuesday	T
Wednesday	P
Thursday	Q
Friday	R
Saturday	S
Sunday	U

S9. Ans.(d)
Sol.

Words	Codes
Surging/Price	or/mb
Fuel	cn
Push	el
Inflation	tz
Record/higher	vc/yc
Ever	xa
And	ob
Power	lv

S10. Ans.(a)
Sol.

Words	Codes
Surging/Price	or/mb
Fuel	cn
Push	el
Inflation	tz
Record/higher	vc/yc
Ever	xa
And	ob
Power	lv

S11. Ans.(d)
Sol.

Words	Codes
Surging/Price	or/mb
Fuel	cn
Push	el
Inflation	tz
Record/higher	vc/yc
Ever	xa
And	ob
Power	lv

S12. Ans.(a)
Sol.

Words	Codes
Surging/Price	or/mb
Fuel	cn
Push	el
Inflation	tz
Record/higher	vc/yc
Ever	xa
And	ob
Power	lv

S13. Ans.(a)
Sol. From the given information, Q attends meeting in September. There are two possibilities. Three persons attend meeting between Q and T. Equal number of persons attend meeting after T and before R.

Date / Month	Case-1		Case-2	
	17th	24th	17th	24th
July	T			T
August				
September	Q			Q
October		R	R	

More than one person attend meeting between R and S who does not attend meeting on odd number date. One person attends meeting between P and W. P does not attend meeting in the month as Q. Equal number of persons attend meeting

after V and before U who attends meeting on an odd number date. From this condition case-1 will be eliminated. The final arrangement is-

Date / Month	17th	24th
July	U	T
August	P	S
September	W	Q
October	R	V

S14. Ans.(b)

Sol.

From the given information, Q attends meeting in September. There are two possibilities. Three persons attend meeting between Q and T. Equal number of persons attend meeting after T and before R.

Date / Month	Case-1		Case-2	
	17th	24th	17th	24th
July	T			T
August				
September	Q			Q
October		R	R	

More than one person attend meeting between R and S who does not attend meeting on odd number date. One person attends meeting between P and W. P does not attend meeting in the month as Q. Equal number of persons attend meeting after V and before U who attends meeting on an odd number date. From this condition case-1 will be eliminated. The final arrangement is-

Date / Month	17th	24th
July	U	T
August	P	S
September	W	Q
October	R	V

S15. Ans.(c)

Sol.

From the given information, Q attends meeting in September. There are two possibilities. Three persons attend meeting between Q and T. Equal number of persons attend meeting after T and before R.

Date / Month	Case-1		Case-2	
	17th	24th	17th	24th
July	T			T
August				
September	Q			Q
October		R	R	

More than one person attend meeting between R and S who does not attend meeting on odd number date. One person attends meeting between P and W. P does not attend meeting in the month as Q. Equal number of persons attend meeting after V and before U who attends meeting on an odd number date. From this condition case-1 will be eliminated. The final arrangement is-

Date / Month	17th	24th
July	U	T
August	P	S
September	W	Q
October	R	V

S16. Ans.(d)

Sol. From the given information, Q attends meeting in September. There are two possibilities. Three persons attend meeting between Q and T. Equal number of persons attend meeting after T and before R.

Date / Month	Case-1		Case-2	
	17th	24th	17th	24th
July	T			T
August				
September	Q			Q
October		R	R	

More than one person attend meeting between R and S who does not attend meeting on odd number date. One person attends meeting between P and W. P does not attend meeting in the month as Q. Equal number of persons attend meeting after V and before U who attends meeting on an odd number date. From this condition case-1 will be eliminated. The final arrangement is-

Date / Month	17th	24th
July	U	T
August	P	S
September	W	Q
October	R	V

S17. Ans.(e)

Sol. From the given information, Q attends meeting in September. There are two possibilities. Three persons attend meeting between Q and T. Equal number of persons attend meeting after T and before R.

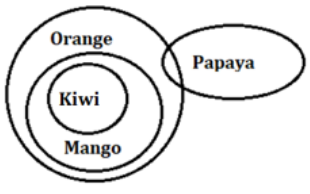
Date / Month	Case-1		Case-2	
	17th	24th	17th	24th
July	T			T
August				
September	Q			Q
October		R	R	

More than one person attend meeting between R and S who does not attend meeting on odd number date. One person attends meeting between P and W. P does not attend meeting in the month as Q. Equal number of persons attend meeting after V and before U who attends meeting on an odd number date. From this condition case-1 will be eliminated. The final arrangement is-

Date / Month	17th	24th
July	U	T
August	P	S
September	W	Q
October	R	V

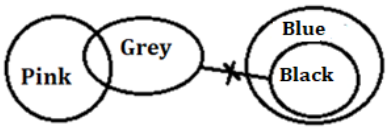
S18. Ans.(b)

Sol.



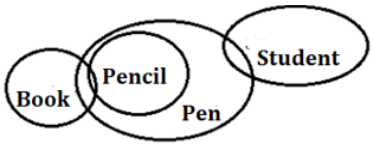
S19. Ans.(a)

Sol.

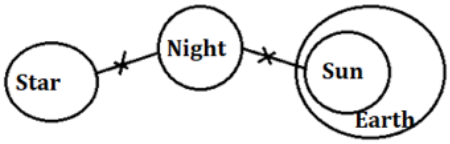


S20. Ans.(e)
Sol.

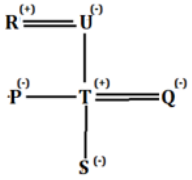
S21. Ans.(e)
Sol.



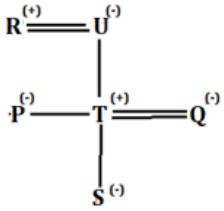
S22. Ans.(d)
Sol.



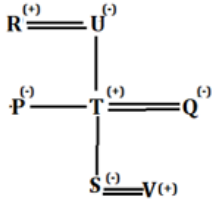
S23. Ans.(a)
Sol.



S24. Ans.(b)
Sol.



S25. Ans.(c)
Sol.



S26. Ans.(a)
Sol. There is no such letter.

S27. Ans.(b)
Sol. New Series- E 4 9 7 4 H 5 V J N **M** 2 V 1 F

S28. Ans.(c)
Sol. 2 # V, 1 **&** F

S29. Ans.(c)
Sol. 8th element from left is 4 and 6th element from right is 2.
Sum = 4+2=6

S30. Ans.(c)

S31. Ans.(b)
Sol. I. A < O (False) **II.** L > Y (True)

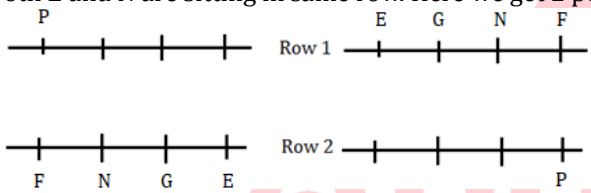
S32. Ans.(c)
Sol. I. C < E (False) **II.** C ≥ H (False)

S33. Ans.(d)
Sol. I. R > Q (False) **II.** Q ≤ R (False)

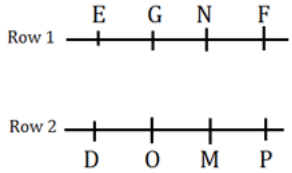
S34. Ans.(a)
Sol. I. R > S (True) **II.** M < P (False)

S35. Ans.(b)
Sol.
Given Number - 5 6 8 9 4 1 **3** 7 2
After arrangement - 9 8 7 6 5 4 **3** 2 1

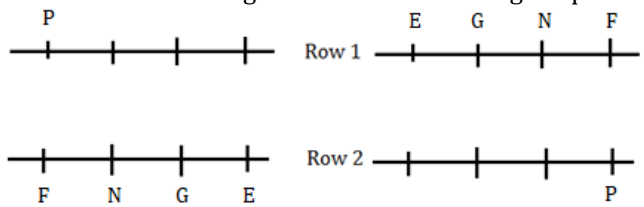
S36. Ans.(b)
Sol. From the given statements, one person sits between F and G. P sits diagonally opposite to E. F sits 3rd to the left of E. Both E and N are sitting in same row. Here we get 2 possible cases-



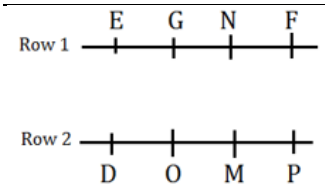
N faces the person who is an immediate neighbour of O. M faces North and doesn't sit at extreme end. Here Case 1 is ruled out now. So, the final arrangement is-



S37. Ans.(e)
Sol. From the given statements, one person sits between F and G. P sits diagonally opposite to E. F sits 3rd to the left of E. Both E and N are sitting in same row. Here we get 2 possible cases-

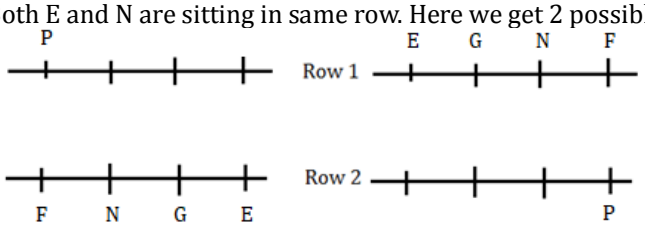


N faces the person who is an immediate neighbour of O. M faces North and doesn't sit at extreme end. Here Case 1 is ruled out now. So, the final arrangement is-

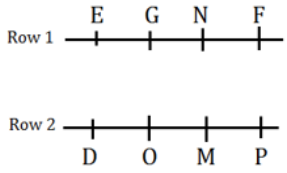


S38. Ans.(e)

Sol. From the given statements, one person sits between F and G. P sits diagonally opposite to E. F sits 3rd to the left of E. Both E and N are sitting in same row. Here we get 2 possible cases-

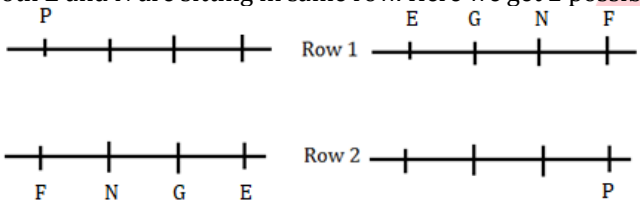


N faces the person who is an immediate neighbour of O. M faces North and doesn't sit at extreme end. Here Case 1 is ruled out now. So, the final arrangement is-

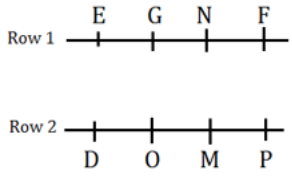


S39. Ans.(d)

Sol. From the given statements, one person sits between F and G. P sits diagonally opposite to E. F sits 3rd to the left of E. Both E and N are sitting in same row. Here we get 2 possible cases-



N faces the person who is an immediate neighbour of O. M faces North and doesn't sit at extreme end. Here Case 1 is ruled out now. So, the final arrangement is-



S40. Ans.(e)

S41. Ans.(d)

Sol.

$60 \times 0.5 = 30$
$30 \times 1 = 30$
$30 \times 1.5 = 45$
$45 \times 2 = 90$
$90 \times 2.5 = 225$
$? = 225 \times 3 = 675$

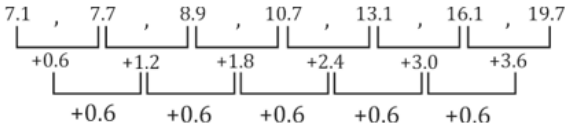
S42. Ans.(a)

Sol.

$17 + 11 = 28$
$28 + 22 = 50$
$50 + 33 = 83$
$83 + 44 = 127$
$127 + 55 = 182$
$182 + 66 = 248$

S43. Ans.(b)
Sol.
$2 \times 3 + 2 = 8$
$8 \times 3 + 2 = 26$
$26 \times 3 + 2 = 80$
$80 \times 3 + 2 = 242$
$242 \times 3 + 2 = 728$
$728 \times 3 + 2 = 2186$

S44. Ans.(e)
Sol.



S45. Ans.(c)
Sol.
$2 + (1^2 + 1) = 4$
$4 + (2^2 + 1) = 9$
$9 + (3^2 + 1) = 19$
$19 + (4^2 + 1) = 36$
$36 + (5^2 + 1) = 62$
$62 + (6^2 + 1) = 99$

S46. Ans.(c)
Sol.
Required percentage $= \frac{300-240}{300} \times 100 = 20\%$

S47. Ans.(a)
Sol. Required difference $= 540 - 420 = 120$

S48. Ans.(c)
Sol.
Required percentage $= \frac{240}{720} \times 100 = 33\frac{1}{3}\%$

S49. Ans.(d)
Sol.
Required average $= \frac{540+420+240}{3} = 400$

S50. Ans.(a)
Sol.
Required number of students $= \frac{150}{100} \times 540 = 810$

S51. Ans.(a)
Sol.
Cost price of bike = 26600 + 1400 = 28000 Rs.
Selling price of bike (X) = $28000 \times \frac{112.5}{100} = 31500$ Rs.

S52. Ans.(c)
Sol.
Required selling price of mixture
$= \frac{(50 \times 24 + 40 \times 16)}{24 + 16} \times \frac{125}{100}$
$= \frac{1840}{40} \times \frac{125}{100}$
= Rs. 57.5

S53. Ans.(b)
Sol.
Let speed of boat in still water be u km/h
Speed of stream = v km/h
∴ 6 (u + v) − 6 (u − v) = 24
6u + 6v − 6u + 6v = 24
∴ 12v = 24
v = 2 km/h
$\frac{35}{u+2}+\frac{35}{u-2}=6$
∴ $70u = 6(u^2 - 4)$
∴ $6u^2 - 70u - 24 = 0$
$6u^2 - 72u + 2u - 24 = 0$
∴ 6u (u − 12) + 2 (u − 12) = 0
$u = 12, \frac{-2}{6}$
∴ Speed of boat in still water = 12 km/hr

S54. Ans.(c)
Sol.
let present age of D is x years.
ATQ
$(x + 14) + (x - 2) + 30 + x = 4 \times 30$
$3x + 42 = 120$
$x = \frac{78}{3} = 26\ years$
So, age of C, 5 years ago $= 24 - 5 = 19\ years$

S55. Ans.(b)
Sol.
required distance $= 4 \times \frac{18}{5} \times \frac{6030}{3600}$
$= 24.12\ km$

S56. Ans.(b)
Sol.
let share of P, Q and R are Rs. p, q and r respectively
ATQ
$r = \frac{1}{2}p$
$\frac{r}{p} = \frac{1}{2}$
And
$q = \frac{1}{3}p$
$\frac{q}{p} = \frac{1}{3}$
So, ratio of $p: q: r = 6: 2: 3$
Let p, q and r are 6x, 2x and 3x respectively
share of Q and R together $= \frac{13200}{3x+6x+2x} \times (3x + 2x)$
$= \frac{13200}{11x} \times 5x = Rs.\ 6000$

S57. Ans.(a)
Sol.
Let principal be Rs.P.
ATQ,
Rate of interest $= \frac{P \times 100}{P \times 3} = \frac{100}{3}\%$
Required interest $= \frac{4200 \times 100 \times 5}{100 \times 3} = Rs.\ 7000$

S58. Ans.(d)
Sol.
volume of bullet $= volume\ of\ the\ wire$
$120 \times 88 \times 20 = \pi r^2 \times 67200$
$r^2 = \frac{211200 \times 7}{22 \times 67200} = 1$
$r = 1\ cm$
So, diameter of the wire $= 1 \times 2 = 2\ cm$

S59. Ans.(e)

Sol.

Profit sharing ratio of P and Q

$= \frac{12000\times8+9600\times4}{9000\times4+(9000-X)\times8} = \frac{168}{125}$

$= \frac{134400}{36000+72000-8X} = \frac{168}{125}$

$= 100000 = 108000 - 8X$

$= X = 1000$

S60. Ans.(c)

Sol.

Avg. marks in 5 subjects = 65

∴ Total marks = 325

Since, two values were wrongly recorded, they will be subtracted from total marks and new values will be added.

∴ New Total Marks = [325 – (58 + 68) + (85 + 86)]

= 325 – 126 + 171

= 370

∴ Actual average mark = $\frac{370}{5} = 74$

S61. Ans.(b)

Sol.

Let the number be 100x

∴ When reduced by 25% it becomes 75x

∴ 75x = 150 ⇒ x = 2

∴ The number = 200.

Now, % increase = $\left(\frac{250-200}{200}\times 100\right)\%$

$= \frac{50}{2}\%$

= 25%

S62. Ans.(e)

Sol.

Let length of train A be L.

When train A cross's platform,

$100 + L = \left(54 \times \frac{5}{18}\right) \times 40$

⇒ L = 500 m

Now,

$\Rightarrow t = \frac{500+700}{(54+90)\times\frac{5}{18}}$

$\Rightarrow t = \frac{1200}{40}$

t = 30 sec = 0.5 minutes

S63. Ans.(b)

Sol.

Let total work = L.C.M. of 10 and 15 = 30 units.

Efficiency of A = $\frac{30}{10} = 3$

Efficiency of B = $\frac{30}{15} = 2$

Work done by A = $3 \times 3 = 9$ *units*

So, remaining work completed by B i.e. 21 units

So, required wage = $\frac{9}{30} \times 6000 = 1800$

S64. Ans.(b)

Sol.

Total number of AC sold by store R & S together = $400 \times \frac{1}{4} + 300 \times \frac{1}{3} = 200$

Total number of AC sold by store P = $216 \times \frac{5}{9} = 120$

Required ratio = 200 : 120 = 5 : 3

S65. Ans.(e)
Sol.
Total number of AC sold by store T = $240 \times \frac{2}{3} = 160$
Total number of AC sold by store Q = $480 \times \frac{5}{6} = 400$
Required percentage = $\frac{400-160}{400} \times 100 = 60\%$

S66. Ans.(b)
Sol.
Total number of AC sold by store Q = $480 \times \frac{5}{6} = 400$
Required percentage = $\frac{400-300}{400} \times 100 = 25\%$

S67.Ans.(d)
Sol.
Total number of AC sold by store P = $216 \times \frac{5}{9} = 120$
Total number of AC sold by store T= $240 \times \frac{2}{3} = 160$
Required average = $\frac{120+160}{2} = 140$

S68. Ans.(c)
Sol.
Total number of non-defected AC sold by store Q & R together
$= (480 \times \frac{5}{6} \times \frac{100-40}{100}) + (400 \times \frac{1}{4} \times \frac{100-20}{100})$
$= 240 + 80$
$= 320$

S69. Ans.(a)
Sol.
$? = \frac{49}{11} - 22 \times \frac{8}{121}$
$? = \frac{49}{11} - \frac{16}{11}$
$? = \frac{33}{11} = 3$

S70. Ans.(a)
Sol.
$? \times 32 \div 35 = 64$
$? = 70$

S71. Ans.(d)
Sol.
$?\times \frac{1}{9} \times 17 = 1156$
$? = 612$

S72. Ans.(a)
Sol.
$96 \times \frac{1}{168} \times 588 \times \frac{1}{12} = ?$
$? = 28$

S73. Ans.(b)
Sol.
$\frac{1}{9} \times 873 - 46 = ?$
$? = 97 - 46$
$? = 51$

S74. Ans.(a)
Sol.

$? = (2 + 4 - 3) + \left(\frac{4}{7} + \frac{1}{3} - \frac{2}{3} + \frac{16}{21}\right)$
$? = 3 + 1$
$? = 4$

S75. Ans.(b)
Sol.

$(?\times 48) \times \frac{1}{54} = 32$
$? = 36$

S76. Ans.(b)
Sol.

$? = 7080$

S77. Ans.(c)
Sol.

$11 \times 303 + 1100 - 200 = ?$
$? = 4233$

S78. Ans.(d)
Sol.

16x9x2 – 400 + 400 = ?
? = 288

S79. Ans.(c)
Sol.

4000 – 120 + 1120 = ?
? = 5000

S80. Ans.(b)
Sol.

5400 – 2175+175 = ?
? = 3400