

RRB PO Pre 2022 (20th August) Shift-Wise Previous Year Paper Mock 04

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

@ K 9 0 B C * B 2 C ^ 8 D # 2 F G K & 0 X 3 \$ R @ E

Q1. How many numbers are there which are immediately preceded by a symbol and immediately followed by a letter?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None

Q2. How many symbols are there which are immediately preceded by a letter and immediately followed by a number?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None

Q3. How many numbers are there which are immediately preceded by a letter and immediately followed by a symbol?

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

Q4. If all the symbols are eliminated from the given series, then which element is exactly between 'E' and '8'?

- (a) G
- (b) B
- (c) K
- (d) 9
- (e) F

Q5. Which element is second to the right of the one which is the tenth element from the right end?

- (a) 0
- (b) X
- (c) 3
- (d) \$
- (e) &

Directions (6-8): Study the following information and answer the given questions.

Point G is 18 m north of Point J. Point H is 12 m south of Point G. Point I lies exactly between Point J and Point H.

Q6. In which direction is Point I from Point G?

- (a) West
- (b) North-west
- (c) South
- (d) South-east
- (e) Cannot be determined

Q7. In which direction is Point I from Point J?

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

Q8. What is the distance between Point G and Point I?

- (a) 9m
- (b) 12m
- (c) 15m
- (d) 21m
- (e) Cannot be determined



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

In a certain code language:

“Online demo English class” is coded as “df gh jk es”

“Offline extra class maths” is coded as “qw df rt yu”

“Maths and English batch” is coded as “rt zx bv gh”

Q9. What is the code of “English” as per the given code language?

- (a) rt
- (b) gh
- (c) df
- (d) qw
- (e) Can't be determined

Q10. What may be the code of “offline” as per the given code language?

- (a) rt
- (b) gh
- (c) df
- (d) qw
- (e) jk

Q11. If “fresh” is coded as “rt df” and “maths” is coded as “jk gh” as per the given code language, then how will “demo” be coded?

- (a) rt df
- (b) jk gh
- (c) df bv
- (d) qw df
- (e) Can't be determined

Q12. In the given code language, “demo” is coded as “rt df” and “extra” is coded as “jk gh”. How will “offline” be coded?

- (a) maths
- (b) english
- (c) demo
- (d) extra
- (e) None of these

Q13. In the given code language, “demo” is coded as “rt df” and “extra” is coded as “jk gh”. How many letters will be there in the code for “offline”?

- (a) Four
- (b) One
- (c) Three
- (d) Two
- (e) More than Four



Directions (14-17): 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.

Q14. Statements:

Only a few Day are Night.

All Night are Noon.

Conclusion

I: All Day can be Noon.

II: Some noon is day.

(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.

Q15. Statements:

Only a few Door are K.

Only a few K are D.

Conclusion

I: All door can be K.

II: Some Door are K.

(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.

Q16. Statements:

Only Grey are Pink.

No Purple is Grey.

Conclusion

I: Some Purple are Pink.

II: Some Pink are Grey.

(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.

Q17. Statements:

100% Tape are Record.

No Tape are Wire.

Conclusion

I: Some Record are Wire.

II: All Record can be wire.



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- (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 (18-21): Study the following information carefully and answer the questions given below:

Eight persons E, F, G, H, I, J, K and L sit in a row adjacent having equal distance between each other. Some of them are facing south while some of them are facing north direction but not necessarily in the same order.

Three persons are sitting between E and J. E sits third from the left. I sits second to the right of J. I and J face opposite directions. I is not an immediate neighbor of J. The person sitting at the extreme right of I faces the same direction as the person sitting at the right of E.

Q18. Which

- (a) F, H
(b) E, F
(c) L, F
(d) F, G
(e) None of these

Q19. Who

- (a) K
(b) G
(c) I
(d) F
(e) L

Q20. How

- (a) Three
(b) Four
(c) Five
(d) More than Five
(e) Cannot be determined

Q21. Four among the following five are alike in a certain way and hence belongs to a group. Who does not belong to that group?

- (a) I-G
(b) F-L
(c) L-E
(d) K-J
(e) F-E

Directions (22-23): In these questions, relationship between different elements is shown in the statements. These statements are followed by two conclusions.

Mark answer as

Q22.

Statements:

$L > M \geq N \geq R < G = T$

Conclusion

I. $M \geq R$

II. $N \geq T$

(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.

Q23.

Statements:

$P < Q \geq R > F < G \geq H$

Conclusion

I. $F < P$

II. $Q > G$

(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

below.

Eight persons (A, B, C, D, E, F, G, H) live in the same order) such as ground floor is numbered as 1, just above it is numbered as 2 and so on till the topmost floor is numbered as 4. Each of the floors has 2 flats in it viz. flat-1 and flat-2. Flat-1 of floor-2 is immediately above flat-1 of floor-1 and immediately below flat-1 of floor-3 and so on. In the same way, flat-2 of floor-2 is immediately above flat-2 of floor-1 and immediately below flat-2 of floor-3 and so on. Flat-1 is in the west of flat-2.

Two floors gap between L and D but they do not live in the same flat. S lives on an odd-numbered floor and to the west of B's flat. One floor gap between the floors of L and C and they live in the same flat. A is living above Q's floor in the same flat. L lives on an even-numbered floor. R is living in an even-numbered flat.

Q24. Who among the following lives in flat-1 on the 3rd floor?

- (a) A
- (b) S
- (c) D
- (d) Q
- (e) None of these

Q25. Who among the following is/are living with C in the same numbered flat?

- (a) L
- (b) S
- (c) Both L and S
- (d) B
- (e) None of these

Q26. Which of the following is/are true?

- (a) A- Flat1
- (b) S- Floor 3
- (c) All are true
- (d) R- Floor 2
- (e) B-Flat 2

Q27. How many teachers live in flat-1?

- (a) Both are true
- (b) None
- (c) Two
- (d) One
- (e) None of these

Q28. The number of teachers living in flat-1 is _____ between _____ and _____.

- (a) Q-A
- (b) L-R
- (c) B-C
- (d) S-R
- (e) None of these

Directions (29-32): Study the following information carefully and answer the questions given below.

Nine teachers i.e. A, B, C, D, L, M, N, O and P take lectures on different dates- 1st, 4th and 5th of the month- March, June and December but not necessarily in the same order.

N takes lecture on an even date in the month which has 30 days. Two persons take lectures in between N and O. B takes lecture just before P but not in the same month. P does not take lecture before N. More than two persons take lectures between O and P. Both D and M take lectures in the same month. One person takes the lecture in between A and C. Not more than four persons take lectures in between C and D.

Q29. How many teachers take lectures between L and D?

- (a) Two
- (b) One
- (c) Three
- (d) Five
- (e) None of these

Q30. Who takes lecture between N and O?

- (a) L
- (b) A
- (c) D
- (d) M
- (e) None of these

Q31. How many persons take lectures between N and O?

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) None of these

Q32. Who among the following person definitely does not take lecture in March?

- (a) O
- (b) P
- (c) A
- (d) L
- (e) Both P and A



Directions (33-34): In this question, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statement and select the appropriate answer.

Q33.

Statements:

$M > U > L \leq N$; $L \geq Y > A$

Conclusions:

I. $Y < N$

II. $Y = N$

-
- (a) Only conclusion I is true
(b) Only conclusion II is true
(c) Either conclusion I or II is true
(d) Both conclusions I and II are true
(e) Neither conclusion I nor II is true

Q34.

Statements:

$J \geq A > D = E$; $L < D < M$

Conclusions:

I. $M < J$

II. $J > L$

- (a) Only conclusion I is true
(b) Only conclusion II is true
(c) Either conclusion I or II is true
(d) Both conclusions I and II are true
(e) Neither conclusion I nor II is true

Q35. Which day of the week is formed with the letters of the word 'WEDNESDAY'?

- (a) Sadden
(b) Owns
(c) Days
(d) Weedy
(e) Ends

Directions (36-39): Study the following information carefully and answer the questions given below.

Eight persons i.e., J, K, L, M, N, O, P and Q are seated around a circular table but not necessarily in the same order. Equal number of persons are facing inside and outside from the table.

J sits third to the right of M. There are two persons sit between M and P. K and N faces each other. L sits second to the right of N who sits immediate right of J. O is not an immediate neighbour of N. None of the immediate neighbours are facing the same directions.

Q36. How many persons sit between M and L?

- (a) One
(b) Two
(c) Three
(d) Four
(e) None

Q37. Who among the following sits third to the left of J?

- (a) Q
- (b) K
- (c) L
- (d) N
- (e) None of these

Q38. Who among the following are immediate neighbour of both O and Q?

- (a) M
- (b) None of these
- (c) J
- (d) P
- (e) K

Q39. Who among the following faces outside?

- (a) M
- (b) N
- (c) L
- (d) K
- (e) J

Q40. Five boys A, B, C, D and E are sitting in a row. A is sitting at the extreme left and E is sitting at the extreme right. B is sitting to the left of C. D is sitting to the right of E. Who among the following is sitting in the middle?

- (a) R
- (b) J
- (c) D
- (d) V
- (e) Can't be determined



Q41. Present age of Deepa is 50% more than that of Shiva and age of Deepa 5 years ago was 50% of the age of Shiva 10 years hence. Find sum of their age 5 years later?

- (a) 30 years
- (b) 25 years
- (c) 45 years
- (d) 35 years
- (e) 20 years

Q42. Two types of rice which cost Rs. 40/kg and Rs. 60/kg are mixed and marked at Rs. $\frac{200}{3}$ Kg. If shopkeeper earns 25% profit after allow a discount of 10% on mixture, then find in what respective ratio these two types of rice are mixed?

- (a) 3 : 2
- (b) 6 : 5
- (c) 6 : 1
- (d) 4 : 3
- (e) 4 : 5

Q43. Q invests Rs. 8000 in a business and after 4 months P joins him. Q increased their amount to Rs. 16000 and after 8 months R joins them. At the end of the year the profit share of P to Q is

- (a) Rs. 8000
- (b) Rs. 16000
- (c) Rs. 12000
- (d) Rs. 24000
- (e) Rs. 20000

Q44. The compound interest received when Rs. 1000 is invested at 10% p.a. at CI for two years is 270. The simple interest received when that sum is invested at SI for two years is

- (a) Rs. 2880
- (b) Rs. 2970
- (c) Rs. 3240
- (d) Rs. 3180
- (e) Rs. 3360

Q45. To complete a work A and B together can do it in 12 days. The work is completed when they together work for 8 days and then A alone works for 4 days. If A works for 9 days & B works for 16 days on the same work and total wages received for the work is Rs. 4200.

- (a) Rs. 600
- (b) Rs.800
- (c) Rs.500
- (d) Rs.900
- (e) Rs.1000

Directions (46-50): Find the wrong number in the following number series.

Q46. 97, 108, 205, 313, 518, 831, 1347

- (a) 97
- (b) 1347
- (c) 518
- (d) 205
- (e) 108

Q47. 120, 83, 113, 93, 105, 99, 101

- (a) 120
- (b) 101
- (c) 99
- (d) 83
- (e) 93

Q48. 15, 10

- (a) 1898
- (b) 1096
- (c) 1608
- (d) 1870
- (e) 15

Q49. 1, 2, 4,

- (a) 1
- (b) 65536
- (c) 128
- (d) 16
- (e) 4

Q50. 12, 17,

- (a) 77
- (b) 1832
- (c) 12
- (d) 17
- (e) 615



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

Q51.

I. $2x^2 - 9x + 9 = 0$

II. $6y^2 - 11y + 4 = 0$

-
- (a) if $x > y$
(b) if $x \geq y$
(c) if $x < y$
(d) if $x \leq y$
(e) if $x = y$ or no relation can be established between x and y

Q52.

I. $x^2 - 9x - 10 = 0$

II. $y^2 - 4y - 5 = 0$

- (a) if $x > y$
(b) if $x \geq y$
(c) if $x < y$
(d) if $x \leq y$
(e) if $x = y$ or

Q53.

I. $x^2 + 7x + 10 = 0$

II. $y^2 - 3y - 4 = 0$

- (a) if $x > y$
(b) if $x \geq y$
(c) if $x < y$
(d) if $x \leq y$
(e) if $x = y$ or no relation can be established between x and y

Q54.

I. $x^3 = 1728$

II. $y^2 + 256 = 400$

- (a) if $x > y$
(b) if $x \geq y$
(c) if $x < y$
(d) if $x \leq y$
(e) if $x = y$ or no relation can be established between x and y

Q55.

I. $4x + 5y = 3$

II. $(y - 4)^2 = 0$

- (a) if $x > y$
(b) if $x \geq y$
(c) if $x < y$
(d) if $x \leq y$
(e) if $x = y$ or no relation can be established between x and y

Directions (56-61): What approximate value should come in the place of (?) mark :

Q56. $72.01\% \text{ of } (? + 224.98) = (14.01)^2 + 199.99$

- (a) 325
- (b) 375
- (c) 225
- (d) 405
- (e) 625

Q57. $16.01\% \text{ of } ? + 64.01\% \text{ of } 350.01 = 64.99\% \text{ of } 400$

- (a) 125
- (b) 225
- (c) 275
- (d) 350
- (e) 625

Q58. $\frac{128.05}{?} + (17.01)^2 = 19.99\% \text{ of } 1525.01$

- (a) 6
- (b) 12
- (c) 4
- (d) 16
- (e) 8

Q59. $?^3 + (24.01)^2 = (25.01)^2 + 29.99\% \text{ of } 49.99$

- (a) 2
- (b) 6
- (c) 3
- (d) 8
- (e) 4

Q60. $? \% \text{ of } 420.01 + (12.01)^2 = 24.01\% \text{ of } 1649.99$

- (a) 54
- (b) 60
- (c) 64
- (d) 50
- (e) 55

Q61. $\sqrt{39.99\% \text{ of } 899.98 - 421.03 + 350.01 + 271.99} = (?)^2$

-
- (a) 17
 - (b) 19
 - (c) 18
 - (d) 16
 - (e) 15

Q62. If ratio between total surface area of cylinder to its curved surface area is 4 : 3 then radius of cylinder is what percent less than height of cylinder?

- (a) $33\frac{1}{3}\%$
- (b) 50%
- (c) $66\frac{2}{3}\%$
- (d) 75%
- (e) $83\frac{1}{3}\%$

Q63. The average age of a group of 10 persons is 32 years. If age of 2 persons is 40 years and 30 years ago was 2 : 4 : 5 respectively, then the age of the youngest person is _____ years.

- (a) 16 years
- (b) 12 years
- (c) 10 years
- (d) 22 years
- (e) 18 years

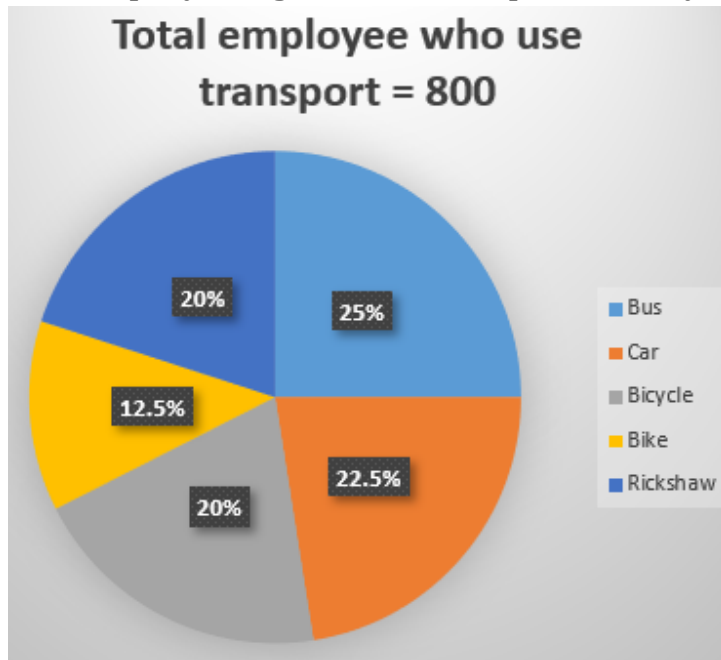
Q64. Ten men or twenty women can complete a piece of work in 4 days and 12 days respectively. Find in how many days 2 men and 3 women together can complete the same piece of work.

- (a) 10 days
- (b) 4 days
- (c) 6 days
- (d) 7 days
- (e) 8 days

Q65. Ratio of two numbers is 5 : 7. If 30 is added in each number, the ratio becomes 3 : 4. Find the ratio of the number if 10 is subtracted from each number.

- (a) 5 : 8
- (b) 8 : 11
- (c) 7 : 10
- (d) 6 : 11
- (e) 7 : 9

Directions (66-70): The pie chart given below shows the percentage distribution of employees of a company using different transport for daily commute.



Q66. No. of employees who use Rickshaw for daily commute is _____ than that use Bicycle as mode of transport.

- (a) 75%
- (b) 25%
- (c) 37.5%
- (d) 62.5%
- (e) 80%

Q67. What is the central angle made by the no. of employee who use car as mode of transport?

- (a) 72°
- (b) 84°
- (c) 65°
- (d) 81°
- (e) 90°

Q68. If 40% of the employee who use Car are females and 75% of employee who use Rickshaw are males, then find the difference between the no. of males who use Car and no. of females who use Rickshaw for daily commute.

- (a) 68
- (b) 78
- (c) 62
- (d) 48
- (e) 84

Q69. What is the difference between average no. of employee use Car, Bus and Bike and no. of employee who use Rickshaw and Bicycle together?

- (a) 120
- (b) 160
- (c) 90
- (d) 150
- (e) 0

Q70. New employee join the company and they don't use any transport (they walk), and they consist of 20% of the total employee of the company, then find the ratio of no. of employee who don't use any transport to the total employee of the company?

- (a) 2 : 3
- (b) 5 : 4
- (c) 3 : 4
- (d) 1 : 1
- (e) 4 : 3

Q71. The population of city A is 10% more than the population of city B, and the population of city C is 40% more than the population of city B, then find the ratio of the population of city A to the population of city C?

- (a) 7.5%
- (b) 10%
- (c) 12%
- (d) 15%
- (e) 20%

Q72. A train of length 100 m is moving with a speed of 100 km/hr and crosses a man who is standing on a platform. Find the time taken by the train to cross the platform, whose length is 60 m.

- (a) 36 sec
- (b) 24 sec
- (c) 12 sec
- (d) 28 sec
- (e) 15 sec

Q73. Speed of boat in still water is twice the speed of stream and difference between upstream and downstream speed of boat is 8 km/hours. Find total time taken by boat to cover 48 km distance in downstream and 32 km distance in upstream?

- (a) 10 hours
- (b) 12 hours
- (c) 16 hours
- (d) 18 hours
- (e) 20 hours

Q74. In a vessel quantity of water is 40% of quantity of milk. If 42 liter of mixture is taken out from the vessel and 32 liter of water is added, then new ratio of milk to water in vessel becomes 7 : 6. Find initial quantity of mixture in vessel?

- (a) 84 liters
- (b) 98 liters
- (c) 126 liters
- (d) 154 liters
- (e) 140 liters

Q75. The merchant marks his goods at a price that he can make a profit of 12% after allowing a discount of 10%. The merchant makes a profit of 12% after allowing a discount of 10%.

- (a) 10%
- (b) 6%
- (c) 4%
- (d) 3%
- (e) 5%

Directions (Q76-Q80): Study the following table which gives the total number of units (sold + unsold) and percentage of unsold units of five different products. Study the table given below and answer the following questions.

Products	Total (sold + unsold) number of units manufactured (in '000)	Percentage of unsold units of these products
A	30	15%
B	40	5%
C	10	30%
D	25	10%
E	50	25%

Note – Percentage of unsold units of any product = $\frac{\text{Total unsold units of that product}}{\text{Total manufactured units of that product}} \times 100$

Q76. Sold units of B & C together are what percent of total units manufactured of E?

- (a) 70%
- (b) 50%
- (c) 90%
- (d) 80%
- (e) 60%

Q77. Find ratio of sold units of D & E together to unsold units of A & B together.

- (a) 13 : 120
- (b) 132 : 17
- (c) 109 : 11
- (d) 120 : 13
- (e) 17 : 132

Q78. Find the average of unsold units of C, D and E.

- (a) 6000 units
- (b) 8000 units
- (c) 5500 units
- (d) 4000 units
- (e) 3500 units

Q79. Total percentage of unsold units of A and B together to total units manufactured is

- (a) 75%
- (b) 50%
- (c) 62.5%
- (d) 87.5%
- (e) 37.5%

Q80. Find total units of D and E together.

- (a) 128500
- (b) 134500
- (c) 116500
- (d) 124500
- (e) 130500

