

## IBPS RRB Mock Test 2

**Directions Q. (1-4):** Study the following information carefully and answer the given questions:

Eight friends A, B, C, D, E, F, G and H are sitting around a square table in such a way that four of them sit at four corners of the square while four sit in the middle of each of the four sides. The ones who sit at the four corners face the centre while those who sit in the middle of the sides face outside.

A who faces the centre sits third to the right of F. E, who faces the centre, is not an immediate neighbour of F. Only one person sits between F and G. D sits second to right of B. B faces the centre. C is not an immediate neighbour of A.

**Q. (1)** Who sits second to the left of B?

- a. F
- b. A
- c. E
- d. H
- e. C

**Answer:** b

**Q. (2)** What is the position of E with respect to F?

- a. Fourth to the left
- b. Second to the left
- c. Third to the left
- d. Third to the right
- e. Second to the right

**Answer:** c

**Q. (3)** Who is sitting exactly opposite H?

- a. E
- b. F
- c. B
- d. H
- e. C

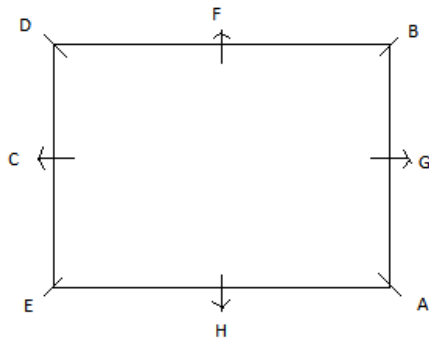
**Answer:** b

**Q. (4)** Which of the following is true regarding C?

- C is an immediate neighbour of F
- C faces the centre
- C sits exactly between E and D
- B sits third to left of C
- None of the above

**Answer:** c

**Solution:**



**Directions Q. (5-6):** Read the following information carefully and answer the following questions:

- If 'P x Q' means 'P is son of Q'
- If 'P + Q' means 'P is daughter of Q'
- If 'P ÷ Q' means 'P is wife of Q'
- If 'P - Q' means 'P is father of Q'

**Q. (5)** What will come in place of (?) to establish that Z is mother of B in the expression:

**B + C - Y (?) Z**

- +
- x
- 
- ÷
- Either + or x

**Answer:** b

**Solution:** B + C  $\longrightarrow$  B is the daughter of C

C - Y  $\longrightarrow$  C is the father of Y

Y x Z  $\longrightarrow$  Y is son of Z

Thus, Z is the mother of B

**Q. (6)** Which of the following relations are true based upon the relations given in the equation?

$$J \div K \times N - O \div S$$

- a. K is brother of S
- b. J is daughter-in-law of O
- c. J is daughter-in-law of S
- d. S is daughter of N

**Answer:** c

**Solution:**  $J \div K \longrightarrow$  J is wife of K

$K \times N \longrightarrow$  K is son of N

$N - O \longrightarrow$  N is father of O

$O \div S \longrightarrow$  O is daughter of S

**Conclusions:**

- K is son of S
- J is sister-in-law of O
- J is daughter-in-law of S
- S is wife of N

**Direction:** In the question below are two / three statements followed by two conclusions numbered I and II. Select the correct conclusion and mark your answer as:

**II.** Select the correct conclusion and mark your answer as:

- a. Only conclusion I follows
- b. Only conclusion II follows
- c. Either conclusion I or conclusion II follows
- d. Neither conclusion I nor conclusion II follows
- e. Both conclusion I and II follow

**Q. (7) Statements:**

- A. Some bags are books
- B. No bag is a pencil

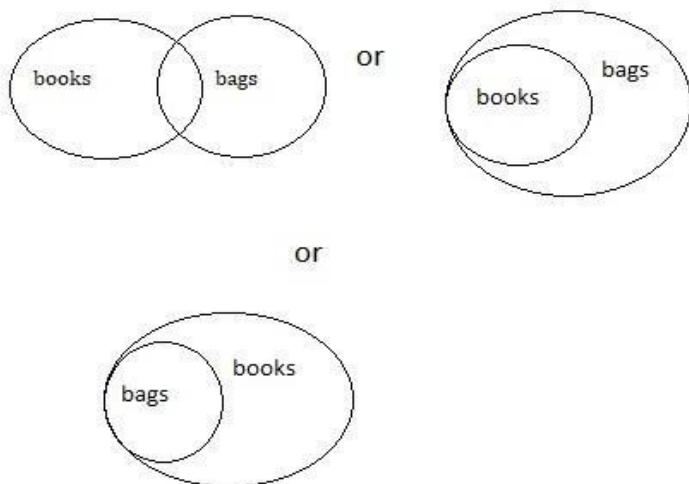
**Conclusions:**

- I. No pencil is a book
- II. Some books are definitely not bags

**Answer:** d

**Solution:** Some books are bags  $\longleftrightarrow$  No bag is a pencil

The statement I can be illustrated through Venn diagram as follows:



Therefore, conclusion I does not follow.

**Directions Q. (8-9):** Each of the following questions below consists of a question and three statements numbered I, II and III given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

**Q. (8)** How many daughters does X have?

- I. Q and S are sisters of U
  - II. U's father O is husband of X
  - III. Out of the three children which O has, only one is a boy.
- a. Only I and III
  - b. All I, II and III are required to answer the question
  - c. Only II and III
  - d. Cannot be determined
  - e. Only I and II

**Answer:** b

**Solution:** X is the mother of Q, S and U.

Q and S are daughters of X.

**Q. (9)** Who among P, Q, R, S, T and U each having a different height, is the tallest?

- I. Q is taller than P but shorter than T
  - II. Only two of them are shorter than R
  - III. S is taller than only U
- 
- a. Only I and II
  - b. Only I and III
  - c. Only II and III
  - d. All I, II and III are required to answer the question
  - e. All I, II and III are not sufficient to answer the question

**Answer:** d

**Solution:** Statement I:  $T > Q > P$

Statement II: \_\_\_\_\_  $>$  \_\_\_\_\_  $>$  \_\_\_\_\_  $>$  R  $>$  \_\_\_\_\_  $>$  \_\_\_\_\_

Statement III: \_\_\_\_\_  $>$  \_\_\_\_\_  $>$  \_\_\_\_\_  $>$  R  $>$  S  $>$  U

**Conclusion:**  $T > Q > P > R > S > U$

Therefore, all the three statements are required to answer the question.

**Directions Q. (10 -11):** What will come in place of (?) in the following questions?

**Q. (10)** 24.04, 26.04, 28.03, 30.03, (?)

- a. 32.04
- b. 32.03
- c. 32.33
- d. 32.44

**Answer:** b

**Solution:** The pattern of the series is

- $(11.5)^2 / 5.5 = 24.04$
- $(12.5)^2 / 6 = 26.04$
- $(13.5)^2 / 6.5 = 28.03$
- $(14.5)^2 / 7 = 30.03$
- $(15.5)^2 / 7.5 = 32.03$

**Q. (11)** 2.3, 6.3, 5.6, 4.5, (?)

- a. 7.6
- b. 7.3
- c. 8.3
- d. 8.6
- e. 6.6

**Answer:** b

**Solution:** The pattern of the series is:

- $4^3 / 3^2 = 2.3$
- $8^3 / 9^2 = 6.3$
- $12^3 / 27^2 = 5.6$
- $16^3 / 30^2 = 4.5$
- $20^3 / 33^2 = 7.3$

**Directions Q. (12-15):** Study the given information carefully to answer the questions that follow.

A bag contains **4 yellow**, **5 orange**, **2 pink** and **3 white** balls.

**Q. (12)** If two marbles are drawn randomly, what is the probability that both are pink or at least one is pink?

- a. 91 / 25
- b. 26 / 93
- c. 99 / 35
- d. 25 / 91
- e. 7 / 2

**Answer:** d

**Solution:** Total number of balls in the bag =  $4 + 5 + 2 + 3 = 14$

Total possible outcomes = selection of 2 balls out of 14 balls =  ${}^{14}C_2$   
 $= (14 \times 13) / (1 \times 2)$   
 $= 91$

Favourable number of cases =  ${}^2C_1 + {}^2C_1 \times {}^{12}C_1$   
 $= 1 + 2 \times 12 = 25$

Therefore, required probability =  $25 / 91$

**Q. (13)** If three balls are drawn at random, what is the probability that at least one is white?

- a.  $5 / 3$
- b.  $9 / 5$
- c.  $199 / 364$
- d.  $323 / 137$
- e.  $5 / 9$

**Answer:** c

**Solution:** Total possible outcomes =  ${}^{14}C_3 = (14 \times 13 \times 12) / (1 \times 2 \times 3) = 364$

When no ball is white, favourable number of cases =  ${}^{11}C_3 = (11 \times 10 \times 9) / (1 \times 2 \times 3) = 165$

Therefore, probability that no ball is yellow =  $165 / 364$

Hence, required probability =  $1 - (165 / 364) = 199 / 364$

**Q. (14)** If eight balls are drawn randomly, then, what is the probability that there are equal number of balls of each colour?

- a.  $8 / 3$
- b.  $60 / 1001$
- c.  $351 / 733$
- d.  $199 / 351$
- e.  $135 / 173$

**Answer:** b

**Solution:** Total possible outcomes =  ${}^{14}C_8 = {}^{14}C_6 [{}^nC_r = {}^nC_{n-r}]$

$$= \frac{14 \times 13 \times 12 \times 11 \times 10 \times 9}{1 \times 2 \times 3 \times 4 \times 5 \times 6} = 3003$$

Favourable number of cases =  ${}^4C_2 \times {}^5C_2 \times {}^2C_2 \times {}^3C_2$

$$= 6 \times 10 \times 1 \times 3 = 180$$

Therefore, required probability =  $180 / 3003 = 60 / 1001$

**Q. (15)** If three balls are drawn randomly, what is the probability that none is yellow?

- a.  $8 / 3$
- b.  $30 / 91$
- c.  $45 / 91$
- d.  $3 / 8$
- e.  $271 / 745$

**Answer:** b

**Solution:** Total possible outcomes =  ${}^{14}C_3 = \frac{14 \times 13 \times 12}{1 \times 2 \times 3} = 364$

No ball is yellow.

Therefore, total number of outcomes = selection of 3 balls out of 5 orange, 2 pink and 3 white

$$= {}^{10}C_3 = \frac{10 \times 9 \times 8}{1 \times 2 \times 3} = 120$$

Therefore, required probability =  $120 / 364 = 30 / 91$

**Directions Q. (16-17):** Study the following table carefully to answer the question that follow:

Number of teachers who got promoted in six different schools over the 6 years

Years (2014– 2019)	Number of teachers got promoted					
	School A	School B	School C	School D	School E	School F
2014	48	46	44	56	52	48
2015	52	60	50	64	48	38
2016	45	62	46	44	44	34
2017	46	68	48	46	36	56
2018	50	52	60	50	42	64
2019	38	48	42	38	60	60

**Q. (16)** What is the average number of teachers who got promoted by school D together over all the years together?



- a. 49.3
- b. 49.6
- c. 52.3
- d. 52.6
- e. 50.2

**Answer:** b

**Solution:** Average number of teachers promoted by School D over the six years

$$= \frac{56 + 64 + 44 + 46 + 50 + 38}{6} = 49.6$$

**Q. (17)** What is the percentage increase in the number of teachers promoted in all the schools in 2015 from the previous year? (round off the two digits after decimal)

- a. 0.05%
- b. 0.6%
- c. 0.06%
- d. 2%
- e. None of the above

**Answer:** a

**Solution:** Average number of teachers who got promoted in all the schools in the year 2015

$$= \frac{52 + 60 + 50 + 64 + 48 + 38}{6} = 52$$

Average number of teachers who got promoted in all the schools in the year 2014

$$= \frac{48 + 46 + 44 + 56 + 52 + 48}{6} = 49$$

$$\begin{aligned}\text{Therefore, required percentage} &= \frac{52 - 49}{49} \times 100 \\ &= 0.06\end{aligned}$$

**Q. (18)** There are two gaps in the sentence/paragraph given below. Choose from the pair of words given below that will fill the gaps most aptly.

Elon Musk, 48, is the founder and CEO of one of the most successful, \_\_\_\_\_ and increasingly unique companies on the planet. Tesla is, of course, in the automobile industry, and, more importantly, for its \_\_\_\_\_, it is making major strides in alternate energy research.

- a. Ubiquitous, profitability
- b. Profitable, monopoly
- c. Omnipresent, success
- d. Presence, development.

**Answer:** a (Ubiquitous, profitability)

**Solution:** Ubiquitous means something that is widespread or having a large presence everywhere, which correctly describes Tesla as they have operations worldwide and the second word 'profitability' correctly describes why Tesla is in the automobile industry.

**Q. (19)** The word given below has been used in the given sentence in four different ways.

**Nose**

- a. A narcotics officer must have the eyes and nose to detect illegal drugs even in the most unlikely of situations.
- b. The nose of a fighter jet is fitted with aerial refuelling to fill fuel in mid-flight.
- c. He had nosed up the information from the producer's friend and it was not really an exciting story.
- d. John has his nose buried deep in his research work

**Answer:** c (He had nosed up the information from the producer's friend and it was not really an exciting story).

**Solution:** The correct sentence should be "He had *nosed out* the information from the producer's friend". 'To nose out' means to have the sense or ability to find something, such as news or certain information.

**Q. (20)** Five sentences given below are labelled A, B, C, D and E. They need to be arranged in the right order in order to form a coherent paragraph. From the given options, choose the most appropriate one.

- A. Turkey is heading in the opposite direction.
- B. Above all, Turkey needs political competition, if not, revival.
- C. The best hope for the country in the coming years is a real split in the JDP between the populist left and the belligerent right to offer a genuine choice for voters.
- D. Its neighbours to the west, particularly Greece, are moving away from the one-party systems that dragged them into corruption and economic stagnation.
- E. Until that happens, Turkey is doomed for a downward slide as its neighbours are on an upward drive.

- a. BEDAC
- b. EDACB
- c. BDACE
- d. BCEDA

**Answer:** c (BDACE)

**Q. (21)** There are two gaps in the sentence/paragraph given below. Choose from the pair of words given below that will fill the gaps most aptly.

On July 30, 2003, a joint team of Spanish and French scientists\_\_\_\_\_time and brought an animal back from\_\_\_\_\_

- a. fought, oblivion
- b. defied, annihilation
- c. transcended, death
- d. reversed, extinction

**Answer:** d (reversed, extinction)

**Solution:** Option (d) is correct as it makes the sentence meaningful by saying that a team of scientists “reversed time”, wherein ‘reversed’ means ‘to turn something the opposite way’, in order to bring back an animal from “extinction”.

**Q. (22)** There are two gaps in the sentence/paragraph given below. Choose from the pair of words given below that will fill the gaps most aptly.

She would\_\_\_\_\_herself, saying that love, no matter what it is, will remain a natural talent. She would say: You are either born\_\_\_\_\_it, or you never know.

- a. bespoke, validating
- b. defend, knowing
- c. tell, acknowledging
- d. harangue, living

**Answer:** b (defend, knowing)

**Solution:** Option b is the correct option as it makes complete sense in the given context. The speaker is providing a justification in the second sentence, by saying that “you are either born knowing how (to love), or you never know” for the point made by the speaker in the first sentence.

**Q. (23)** Given below are five sentences or parts of sentences that form a paragraph. Identify the sentence (s) or parts of sentences(s) that is/are incorrect in terms of grammar and usage. Then choose the correct option.

- A. I left home for Kovir when I was 18.
- B. Nilfgaard was much nearer, but Kovir was where I wanted to be - an ambition born in boyhood when visits to relatives meant passing through a city where trams queued in the streets and ships filled the river, and a shop called the Emhir Van Emyris Dockyard always had a crowd of father and sons looking in at the window.
- C. Of course, by the time I was 18 I knew about the other side of Kovir- tenements, poverty and crime - but none of it detract the prospect of living there.
- D. I was a Fife boy who wanted to be a Kovirite, to be part of this great black city that seemed to be inexhaustibly interesting.
- E. Even Hemingway and his friends invested no greater emotion to Redania.

- a. A and B
- b. C and D
- c. B and E
- d. C and E

**Answer:** d (C and E)

**Solution:** Sentences A, B and D are grammatically correct. Sentence C is incorrect because of the absence of the preposition 'from' after detract. Statement E is incorrect because the use of the preposition 'to' is improper in the given context.

**Q. (24)** There are two gaps in the sentence/paragraph given below. Choose from the pair of words given below that will fill the gaps most aptly.

The valleys are located in a strange, pincer-shaped \_\_\_\_\_ of land \_\_\_\_\_ from the northeast corner of Afghanistan.

- a. Rocks, protruding
- b. Piece, located
- c. Island, stretching
- d. Appendage, jutting

**Answer:** d (appendage, jutting)

**Solution:** Option (d) is the correct answer as 'appendage', which means a smaller or less important part of something larger, fits into the first blank perfectly and 'jutting', which means to stick out further than the surrounding surface.

**Q. (25)** Five sentences given below are labelled A, B, C, D and E. They need to be arranged in the right order in order to form a coherent paragraph. From the given options, choose the most appropriate one.

- A. Logic dictates that Japanese food will not go down well with the North Indian fish-hating markets.
- B. But sushi is all the rage because teenagers love it.

- C. Over the last decade, new restaurants have opened and turned the conventional wisdom on its head.
- D. Thus, the fast food chains which survive on wheat (pizzas, pastas, hamburgers buns etc.) should al flop in the rice-loving South
- E. One can only guess is that the differences will sort itself out as the new generation comes of age.
- a. ECABD
- b. ABDEC
- c. CABED
- d. EABDC

**Answer:** (a) ECABD