

IRFC Assistant and Assistant Manager Sample Paper Part A

Q1. The oldest and most continuously productive coalfield in India, located in West Bengal, is:

- (a) Jharia Coalfield
- (b) Raniganj Coalfield
- (c) Bokaro Coalfield
- (d) Talcher Coalfield

Ans.(b)

Q2. Which of the following is NOT a nitrogenous base in DNA?

- (a) Adenine
- (b) Uracil
- (c) Cytosine
- (d) Guanine

Ans.(b)

Q3. Full form of CRS is ?

- (a) Chief of Rail Safety
- (b) Commission of Railway Safety
- (c) Controller of Rail Safety
- (d) None of the above

Ans.(b)

Q4. Sushma purchased a used car for ₹1,20,000 and spent ₹28,500 on its repairs. She then sold it to her friend Sam for ₹1,38,600. What percentage did she gain or lose? (Round off your answer to two decimal places.)

- (a) 8.67% loss
- (b) 6.67% loss
- (c) 5.38% gain
- (d) 6.67% gain

Ans.(b)

Q5. An airplane is in level flight at an altitude of 1.5 km from the ground is observed at an angle of elevation of 60° . After 10 seconds, its angle of elevation is observed to be 30° . The speed of the airplane in km/hr is:

- (a) $360\sqrt{3}$
- (b) $180\sqrt{3}$
- (c) $360/\sqrt{3}$
- (d) $540/\sqrt{3}$

Ans.(a)

Q6. Two trains are moving in opposite directions at speeds of 110 km/hr and 120 km/hr. The length of one train is 450 m. The time taken by them to cross each other is 12 seconds. The length (in m) of the other train (rounded off to 2 decimal places) is:

- (a) 316.67
- (b) 318.7
- (c) 317.34
- (d) 314.28

Ans.(a)

Q7. Which of the following pairs is correctly matched with respect to the Lyuva Khutla festival of the Mara tribe?

- (a) Modern Games - Ludo
- (b) Dances - Bihu & Dalkhai
- (c) Festival Host - Chaypi

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(d) Attire - Mekhela Chador

Ans.(c)

Q8. The present age of a father is twice the sum of the present ages of his two sons. After 20 years, the father's age will be equal to the sum of his sons' ages. Find the present age of the father.

- (a) 42 years
- (b) 45 years
- (c) 40 years
- (d) 48 years

Ans.(c)

Q9. Which of the following is not a railway zone ?

- (a) SWR
- (b) NWR
- (c) WCR
- (d) EFR

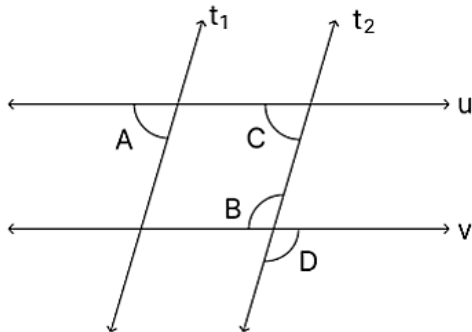
Ans.(d)

Q10. Schaku is a type of _____?

- (a) Wagon
- (b) Loco
- (c) Coupler
- (d) Brake van

Ans.(c)

Q11. In the given figure, if $u \parallel v$, $t_1 \parallel t_2$ and $\angle A = 90^\circ$, find $\angle D$.



- (a) 90°
- (b) 82°
- (c) 87°
- (d) 92°

Ans.(a)

Q12. In which year was the first metro line in India, between Esplanade and Bhawanipur in Kolkata, inaugurated—marking the beginning of metro rail services in the country?

- (a) 1984
- (b) 1994
- (c) 1990
- (d) 1977

Ans.(a)

Q13. Arrange the following values in ascending order.

$$3\frac{5}{6}, \frac{26}{6}, 2\frac{1}{2}, \frac{22}{6}$$

- (a) $2\frac{1}{2} < \frac{26}{6} < 3\frac{5}{6} < \frac{22}{6}$
 (b) $3\frac{5}{6} < \frac{26}{6} < 2\frac{1}{2} < \frac{26}{6}$
 (c) $2\frac{1}{2} < \frac{22}{6} < 3\frac{5}{6} < \frac{26}{6}$
 (d) $2\frac{1}{2} < \frac{22}{6} < \frac{26}{6} < 3\frac{5}{6}$

Ans.(c)

Q14. Average age of a group of 16 boys is 24 years. Two boys with ages 19 years and 18 years left the group. One boy with age 43 years joined the group. What is the new average age (in years) of the group?

- (a) 21
 (b) 31
 (c) 28
 (d) 26

Ans.(d)

Q15. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

- All boats are hotels.
 Some hotels are palaces.
 No palace is a mansion.

Conclusions:

- I. Some boats are palaces.
 II. Some mansions being not hotels is a possibility.
 III. No boat is a palace.
 (a) Only conclusion I follows.
 (b) Conclusion II and either conclusion I or conclusion III follow.
 (c) I, II and III follow.
 (d) Both conclusions I and II follow.

Ans.(b)

Q16. A group of numbers/symbols is coded using letters as per the table given below and the conditions that follow. The correct combination of codes following the conditions is your answer.

| | | | | | | | | | | | | | | |
|---------------|---|---|---|---|---|----|---|---|---|---|---|---|---|---|
| Number/Symbol | 2 | % | 4 | 3 | 5 | \$ | @ | 9 | # | + | 8 | ^ | 7 | 9 |
| Code Letter | L | D | B | S | G | A | H | K | L | 2 | F | X | Q | Y |

Conditions:

- i. If the first element is a symbol and the last element is a number, the codes for these two (the first and the last elements) are to be interchanged.
 ii. If the first element is an odd number and the last element is an number, the first and last elements are to be coded as ©.
 iii. If both the second and third elements are perfect squares, the third element is to be coded as the code for the second element.

What will be the code for \$ 2 3 % 4 ?

- (a) ASLDB
 (b) BLDSA
 (c) ALSDB
 (d) BLSDA

Ans.(d)

Q17. Navya and Bhavya can paint a house in 40 days and 60 days, respectively. If they work on alternate days, starting with Bhavya, in how many days can the duo complete painting that house?

- (a) 45 days
- (b) 48 days
- (c) 50 days
- (d) 49 days

Ans.(b)

Q18. Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. No box is kept above F. Only three boxes are kept between F and E. Only one box is kept between G and C. C is kept immediately above E. Only four boxes are kept between G and A. B is kept at some place above D. How many boxes are kept above E?

- (a) Two
- (b) Four
- (c) One
- (d) Three

Ans.(b)

Q19. The Railway Accidents Committee of 1962 was chaired by whom?

- (a) Shahnawaz Khan
- (b) D.K. Mittal
- (c) Kanjaru
- (d) Anil Kakodkar

Ans.(c)

Q20. If $2x - \frac{1}{2x} = \frac{10}{3}$ and $x > 1$, then find the value of $x^2 + \frac{1}{16x^2}$

- (a) 125/18
- (b) 59/18
- (c) 118/9
- (d) 35/9

Ans.(b)

Q21. The sum of the present ages of Bunty and Bubbly is 24 years. After 2 years from now, Bunty's age will be three times that of Bubbly's age. Bunty's present age (in years) is:

- (a) 28
- (b) 17
- (c) 22
- (d) 19

Ans.(d)

Q22. Which number will replace the question mark (?) in the following series?

7, 16, 28, 40, ?, 72, 88, 106, 126

- (a) 60
- (b) 56
- (c) 52
- (d) 54

Ans.(d)

Q23. Navneet starts from Point Y and drives 10 km towards west. He then takes a right turn, drives 18 km. He then turns right and drives 10 km. He takes a final right turn, drives 15 km and stops at Point Z. How far (shortest distance) and towards which direction should he drive in order to reach Point Y again? (All turns are 90-degree turns only unless specified)

- (a) 3 km towards south
- (b) 10 km towards north
- (c) 4 km towards east

(d) 6 km towards west

Ans.(a)

Q24. If 'you are fine' is coded as 'ca, ba, da', 'he is fine' as 'le, da, xe', and 'they are fine' as 'ca, ty, da', then what is the code for 'he'?

- (a) xe
- (b) le
- (c) ty
- (d) It cannot be determined.

Ans.(d)

Q25. Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

FIS38, RUE70, DGQ102, PSC134, ?

- (a) BEO166
- (b) BOW165
- (c) BOQ166
- (d) BOE166

Ans.(a)

Q26. Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: XAF :: SVA : %

- (a) # = BBJ % = ORW
- (b) # = BEJ % = QRW
- (c) # = BEJ % = ORP
- (d) # = BEJ % = ORW

Ans.(d)

Q27. What is the scale for measuring a hydrogen ion concentration in a solution?

- (a) pH scale
- (b) OH scale
- (c) Hydrogen scale
- (d) dB scale

Ans.(a)

Q28. Fitter belongs to _____ department of railways ?

- (a) Electrical
- (b) Traffic
- (c) Accounts
- (d) Mechanical

Ans.(d)

Q29. In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.

JUNK - UJNK - KUJN

LACK - ALCK - KALC

- (a) BUNS - UBNS - SUNB
- (b) MOST - OMST - OSTM
- (c) FROM - RFOM - MRFO
- (d) MOCK - MCOK - KCOM

Ans.(c)

Q30. Where is the 'Integral Coach Factory' (ICF), which manufactures railway coaches (like for Vande Bharat), located?

- (a) Varanasi
- (b) Kapurthala
- (c) Chennai
- (d) Bengaluru

Ans.(c)

Q31. A certain sum is invested at compound interest, compounded annually. The interest earned in the first year is Rs. 1,800 and in the second year is Rs. 2,160. Find 50% of the principal amount.

- (a) Rs. 4,500
- (b) Rs. 6,000
- (c) Rs. 5,000
- (d) Rs. 7,000

Ans.(a)

Q32. TSR is give during ?

- (a) NI site
- (b) Animal crossing
- (c) High visibility
- (d) A & B

Ans.(d)

Q33. When is total revenue maximized in relation to elasticity?

- (a) When elasticity is greater than one
- (b) When elasticity equals one
- (c) When elasticity is less than one
- (d) When marginal cost equals marginal revenue

Ans.(b)

Q34. A 20% decrease in the cost of sugar enables a consumer to purchase an additional 5 kg for ₹400. What was the initial price per kg?

- (a) ₹20
- (b) ₹25
- (c) ₹16
- (d) ₹24

Ans.(a)

Q35. In the following number- pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into their constituent digits. E.g. 13 - Operations on 13 such as adding/subtracting/multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

19, 33
17, 29

- (a) 26, 43
- (b) 23, 40
- (c) 24, 43
- (d) 22, 38

Ans.(c)

Q36. Two cubes, each having the length of each side as 8 cm, are joined to form a cuboid. What will be the total surface area of the cuboid?

- (a) 704 cm^2
- (b) 640 cm^2
- (c) 768 cm^2
- (d) 576 cm^2

Ans.(b)

Q37. An article is sold at a 20% loss. If the selling price was ₹400 more, there would have been a 5% gain. What is the cost price of the article?

- (a) ₹1500
- (b) ₹1600
- (c) ₹1800
- (d) ₹2000

Ans.(b)

Q38. The ratio of the volume to the curved surface area of a right circular cylindrical pillar is 2772:528. What is the radius of the base of the cylindrical pillar?

- (a) 6.5 m
- (b) 7.5 m
- (c) 7 m
- (d) 10.5 m

Ans.(d)

Q39. The Karnataka Khadi and Gramodyoga Samyukta Sangha (KKGSS), the only unit legally permitted to manufacture the tricolour flag out of pure khadi, is located in which place?

- (a) Gokarna
- (b) Badami
- (c) Bengeri
- (d) Belur

Ans.(c)

Q40. Usha Mehta is famously known for which of the following contributions during the Quit India Movement?

- (a) Leading armed struggle against British forces
- (b) Organizing the underground radio to broadcast nationalist messages
- (c) Being the first woman to be executed by the British for revolutionary activities
- (d) Leading mass protests in Bombay

Ans.(b)

Q41. Consider the following statements:

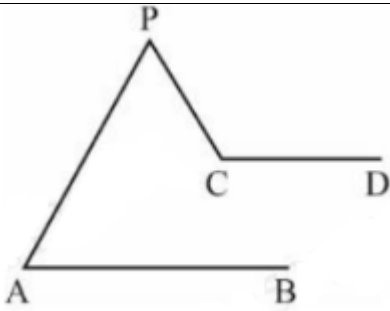
1. Parliament can bar the jurisdiction of courts over inter-state water disputes.
2. Article 262 empowers the Inter-State Council to adjudicate water disputes.

Which of the above statements is/are correct?

- (a) Only 1
- (b) Only 2
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Ans.(a)

Q42. In the given figure, AB is parallel to CD. Angle PAB = 70 degrees and angle APC = 30 degrees. What is the value (in degrees) of angle DCP?



- (a) 90°
- (b) 100°
- (c) 110°
- (d) 95°

Ans.(b)

Q43. What is the trophy awarded to the overall champions of the National Games of India called?

- (a) Nehru Trophy
- (b) Raja Bhalindra Singh Trophy
- (c) Indira Gandhi Gold Cup
- (d) Dhyan Chand Trophy

Ans.(b)

Q44. Evaluate: $24 \times 52\% \times \frac{5}{156} \times 78\% \times \frac{7}{312} \times 100000$

- (a) 70
- (b) 100
- (c) 700
- (d) 1000

Ans.(c)

Q45. Which of the following is not a type of fixed signal ?

- (a) Starter
- (b) Home
- (c) Distant
- (d) Detonator

Ans.(d)

Q46. The magnification (m) produced by a lens is defined as the ratio of _____.

- (a) the image height to the object height
- (b) the focal length to the object distance
- (c) the object distance to the image distance
- (d) the object height to the image height

Ans.(a)

Q47. The line chart given below shows the monthly petrol consumption (in litres) by 6 different cars CR1, CR2, CR3, CR4, CR5 and CR6.

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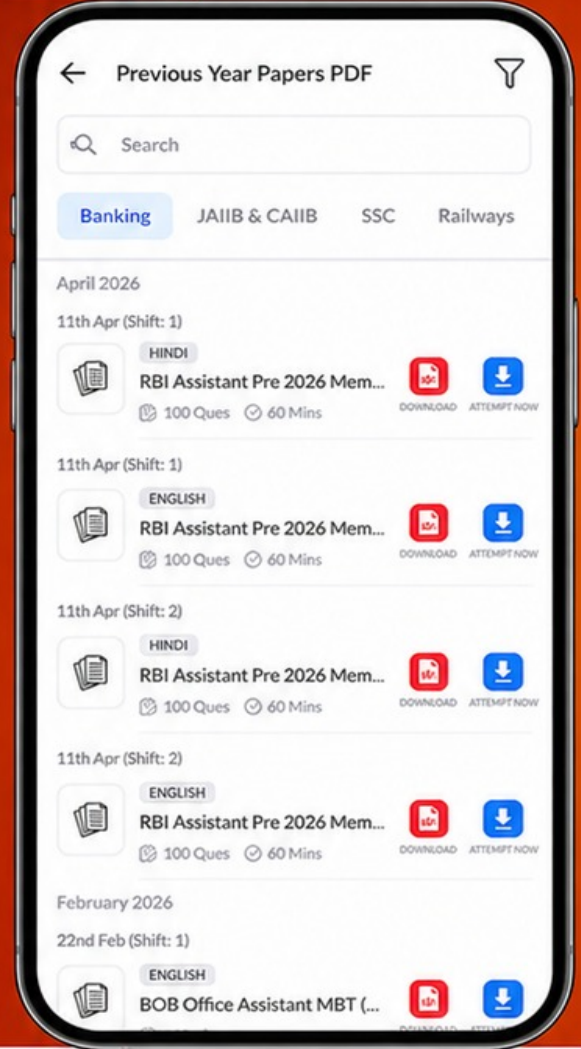
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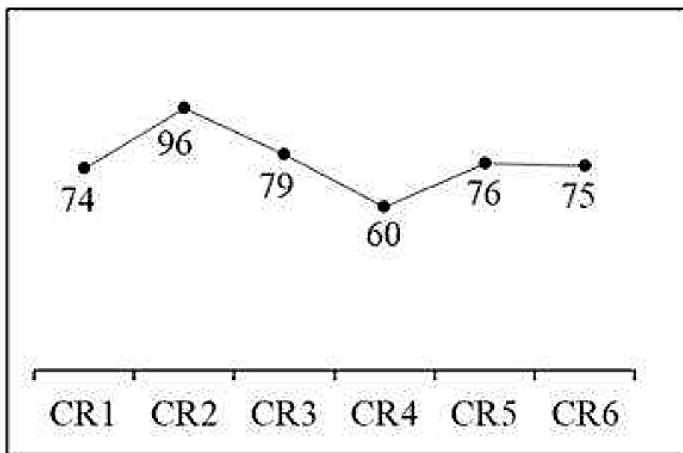


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The price per litre of petrol is Rs. 105.

P = Total monthly expenditure (in Rs.) on petrol for CR1 and CR4.

Q = Total monthly expenditure (in Rs.) on petrol for CR3 and CR6.

What is the value (in Rs.) of Q - P?

- (a) 1575
- (b) 2310
- (c) 1680
- (d) 2100

Ans.(d)

Q48. What is the value of $\frac{5.4 \times (0.1 \times 0.1 \times 0.1 + 0.03 \times 0.03 \times 0.03)}{0.3 \times 0.3 \times 0.3 + 0.09 \times 0.09 \times 0.09}$?

- (a) 0.5
- (b) 0.2
- (c) 0.4
- (d) 0.6

Ans.(b)

Q49. The population of a town is growing at a rate of 16% per year. At this rate, if the current population is 31250, then what will the town's population be 2 years from now?

- (a) 42678
- (b) 42050
- (c) 43150
- (d) 40180

Ans.(b)

Q50. Which of the following stations is NOT mentioned as a major integration hub for the Delhi–Meerut Namo Bharat Corridor?

- (a) Sarai Kale Khan
- (b) Anand Vihar
- (c) Lucknow Central
- (d) Ghaziabad

Ans.(c)