



रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS
०५/२०२४ - एनटीपीसी स्नातक स्तर - CEN - 05/2024 - NTPC Graduate Level



Test Date	21/06/2025
Test Time	9:00 AM - 10:30 AM
Subject	RRB NTPC Graduate Level I

* Note
Correct Answer will carry 1 mark per Question.
Incorrect Answer will carry 1/3 Negative mark per Question.

1. Options shown in green color with a tick icon are correct.
2. Chosen option on the right of the question indicates the option selected by the candidate.

Section : RRB NTPC Graduate Level I

Q.1	MJGT is related to QNKX in a certain way based on the English alphabetical order. In the same way, CZWJ is related to GDAN. To which of the following options is OLIV related, following the same logic?
Ans	<div><div><input checked="" type="checkbox"/></div>1. SMPZ</div> <div><div><input checked="" type="checkbox"/></div>2. SPMZ</div> <div><div><input checked="" type="checkbox"/></div>3. SPZM</div> <div><div><input checked="" type="checkbox"/></div>4. SMZP</div>
Q.2	Seven boxes, A, B, C, D, E, F and Y, are kept one over the other but not necessarily in the same order. Only D is kept above F. Only three boxes are kept between D and A. Only B is kept below E. Y is not kept immediately above A. How many boxes are kept between C and B?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Four</div> <div><div><input checked="" type="checkbox"/></div>2. Three</div> <div><div><input checked="" type="checkbox"/></div>3. Two</div> <div><div><input checked="" type="checkbox"/></div>4. One</div>
Q.3	Which of the following pairs of reform organisations and their founders is correctly matched?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Brahmo Samaj – Dayanand Saraswati</div> <div><div><input checked="" type="checkbox"/></div>2. Arya Samaj – Raja Ram Mohan Roy</div> <div><div><input checked="" type="checkbox"/></div>3. Satya Shodhak Samaj – Jyotiba Phule</div> <div><div><input checked="" type="checkbox"/></div>4. Bahujan Samaj – BR Ambedkar</div>
Q.4	In November 2024, who was named Indian Film Personality of the Year at the International Film Festival of India (IFFI)?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Vikrant Massey</div> <div><div><input checked="" type="checkbox"/></div>2. Manoj Bajpayee</div> <div><div><input checked="" type="checkbox"/></div>3. Nawazuddin Siddiqui</div> <div><div><input checked="" type="checkbox"/></div>4. Ayushmann Khurrana</div>
Q.5	Govind invested some money in a bank at 4% per annum rate of interest. What would be the corresponding simple interest (in ₹) if after 2 years, Govind got ₹280.5 as compound interest, considering annual compounding?
Ans	<div><div><input checked="" type="checkbox"/></div>1. 275</div> <div><div><input checked="" type="checkbox"/></div>2. 290</div> <div><div><input checked="" type="checkbox"/></div>3. 270</div> <div><div><input checked="" type="checkbox"/></div>4. 285</div>

Q.6

If 2 is added to each even digit and 1 is subtracted from each odd digit in the number 4123957, what will be the difference between the greatest and smallest digits in the new number thus formed?

Ans

1. 6

2. 4

3. 2

4. 8

Q.7

The present cost of a hospital is ₹1,82,590. After a year, its cost increased to ₹1,95,382. The percentage increase (rounded off to the nearest integer) in the cost of the hospital is:

Ans

1. 5%

2. 16%

3. 3%

4. 7%

Q.8

When was the designation of the Governor General in India promoted as a Viceroy or Crown's representative?

Ans

1. Year 1935

2. Year 1919

3. Year 1833

4. Year 1858

Q.9

What does the horizontal row in the periodic table represent?

Ans

1. Groups

2. Columns

3. Periods

4. Blocks

Q.10

In the context of computer hardware components, what is the primary function of ROM?

Ans

1. It physically supports all internal hardware modules.

2. It holds essential firmware required for booting the system.

3. It stores temporary data used during system processing.

4. It executes programs and handles arithmetic operations.

Q.11

Where is the audit report of an apex co-operative society required to be presented?

Ans

1. District Office

2. State Legislature

3. High Court

4. State Secretariat

Q.12

What is the mode of the data given below? [Give your answer correct to 2 decimal places.]

Age in years	15-25	25-35	35-45	45-55	55-65	65-75	75-85
No. of patients	14	32	39	38	10	36	22

Ans

1. 40.86

2. 60.47

3. 43.75

4. 36.08

Q.13	If 48, 96, 20, and y are in proportion, then the value of y is:
Ans	<div><div><input type="checkbox"/></div>1. 38</div> <div><div><input type="checkbox"/></div>2. 37</div> <div><div><input type="checkbox"/></div>3. 34</div> <div><div><input checked="" type="checkbox"/></div>4. 40</div>

Q.20 A train P going at the speed of 30 km/hr completely passes train Q of length 296 m, going in the same direction on parallel tracks, at 21 km/hr, in 6.5 minutes. How much time (in seconds) will P take to cross completely train R of length 196 m, going at 96 km/hr in the opposite direction?

- Ans
- ☒ 1. 42
 - ☒ 2. 21
 - ☒ 3. 25
 - ☒ 4. 22

Q.21 An astronomical observation site, Jantar Mantar, which is also a UNESCO World Heritage Site, is located in which State?

- Ans
- ☒ 1. Rajasthan
 - ☒ 2. Gujarat
 - ☒ 3. Bihar
 - ☒ 4. Madhya Pradesh

Q.22 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 :: ?

: XFL :: KSY : %

- Ans
- ☒ 1. # = SAG, % = PID
 - ☒ 2. # = TAG, % = PXD
 - ☒ 3. # = SAG, % = PXD
 - ☒ 4. # = SAG, % = PXO

Q.23 In a certain code language, 'CARD' is coded as '4681' and 'DOGS' is coded as '3219'. What is the code for 'D' in the given code language?

- Ans
- ☒ 1. 1
 - ☒ 2. 2
 - ☒ 3. 4
 - ☒ 4. 3

Q.24 A group of numbers and symbols is coded using letter codes as per the codes given below and the conditions that follow. Study the given codes and conditions and answer the question that follows.

Note: If none of the conditions apply, then codes for the respective number/symbol are to be followed directly as given in the table.

Number/Symbol	4	#	\$	7	9	2	6	@	3	&	5
s											
Code	B	W	Q	C	A	T	J	N	P	D	G

Conditions:

- (i) If the first element is a number and the last element is a symbol, then the codes for the first and last elements are to be interchanged.
- (ii) If the first element is divisible by 2 and the last element is divisible by 3, then the first and last elements are to be coded as *
- (iii) If the first element is a symbol and the last element is an even number, then their codes (i.e. first and last element) are to be changed to the code for 3.

Identify the code for the following.

56#4+

- Ans
- ☒ 1. EJWBG
 - ☒ 2. GJWBG
 - ☒ 3. GJWBE
 - ☒ 4. EJGBE

Q.25	18 chairs and 4 tables cost ₹7,100 and 18 chairs and 7 tables cost ₹7,700. What is the cost of 18 chairs and 5 tables?
Ans	<div><div><div>✖</div><div>1. ₹7,295</div></div><div><div>✖</div><div>2. ₹7,298</div></div><div><div>✔</div><div>3. ₹7,300</div></div><div><div>✖</div><div>4. ₹7,296</div></div></div>
Q.26	Amit's salary is ₹13,000 per month. He spends ₹4,000 on house rent, ₹2,000 on bills, and the rest of the amount is his monthly savings. Find his savings (in ₹) in a year, if in the month of his birthday he spent his complete monthly savings for a birthday celebration.
Ans	<div><div><div>✖</div><div>1. 70,000</div></div><div><div>✔</div><div>2. 77,000</div></div><div><div>✖</div><div>3. 84,000</div></div><div><div>✖</div><div>4. 63,000</div></div></div>
Q.27	A dealer purchased an oven for ₹605. After allowing a discount of 45% on its marked price, he still gains 37%. Find the marked price of the oven.
Ans	<div><div><div>✖</div><div>1. ₹1,421</div></div><div><div>✖</div><div>2. ₹1,502</div></div><div><div>✖</div><div>3. ₹1,537</div></div><div><div>✔</div><div>4. ₹1,507</div></div></div>
Q.28	The curved surface area of a right circular cone is $2684\pi\text{ cm}^2$, and the diameter of its base is 44 cm. Find the height (in cm) of the cone.
Ans	<div><div><div>✖</div><div>1. 123</div></div><div><div>✖</div><div>2. 121</div></div><div><div>✖</div><div>3. 124</div></div><div><div>✔</div><div>4. 120</div></div></div>
Q.29	Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. (Left) 1 5 & 3 * \$ 4 @ % 2 7 # 9 ^ # >= 6 8 (Right) If all the symbols are dropped from the series, which of the following will be fourth from the right?
Ans	<div><div><div>✖</div><div>1. 2</div></div><div><div>✖</div><div>2. 4</div></div><div><div>✖</div><div>3. 9</div></div><div><div>✔</div><div>4. 7</div></div></div>
Q.30	Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)
Ans	<div><div><div>✖</div><div>1. RV – TB</div></div><div><div>✔</div><div>2. GK – JQ</div></div><div><div>✖</div><div>3. MQ – OW</div></div><div><div>✖</div><div>4. EI – GO</div></div></div>
Q.31	Which of the following rivers originates in the Western Ghats?
Ans	<div><div><div>✔</div><div>1. Krishna</div></div><div><div>✖</div><div>2. Brahmaputra</div></div><div><div>✖</div><div>3. Yamuna</div></div><div><div>✖</div><div>4. Ganga</div></div></div>

Q.32	Where was the Leadership Summit 2024, a two-day corporate-academia event centered around the theme 'Grooming Young Talents' held?
Ans	<div><div><div>✖</div><div>1. Indian Institute of Technology Roorkee</div></div><div><div>✖</div><div>2. Indian Institute of Technology Kanpur</div></div><div><div>✖</div><div>3. Indian Institute of Technology Mumbai</div></div><div><div>✔</div><div>4. Indian Institute of Technology Guwahati</div></div></div>
Q.33	<p>This question is based on the five, three-digit numbers given below. (Left) 411 559 916 247 769 (Right)</p> <p>(Example- 697 – First digit = 6, second digit = 9 and third digit = 7) (NOTE: All operations to be done from left to right.)</p> <p>What will be the resultant if the first digit of the lowest number is subtracted from the first digit of the highest number?</p>
Ans	<div><div><div>✔</div><div>1. 7</div></div><div><div>✖</div><div>2. 11</div></div><div><div>✖</div><div>3. 5</div></div><div><div>✖</div><div>4. 9</div></div></div>
Q.34	<p>In $\triangle ABC$, $DE \parallel AC$, where D and E are the points on sides AB and BC, respectively. If $BD = 17$ cm and $AD = 14$ cm, then what is the ratio of the area of $\triangle BDE$ to that of the trapezium ADEC?</p>
Ans	<div><div><div>✖</div><div>1. 523 : 367</div></div><div><div>✔</div><div>2. 289 : 672</div></div><div><div>✖</div><div>3. 672 : 289</div></div><div><div>✖</div><div>4. 475 : 326</div></div></div>
Q.35	<p>Seven friends, A, B, C, D, E, F and O, are sitting in a row facing north. Only two people sit to the left of F. Only three people sit between F and A. Only one person sits between A and O. D sits to the immediate left of C. E is not an immediate neighbour of A. How many people sit to the right of B?</p>
Ans	<div><div><div>✖</div><div>1. Four</div></div><div><div>✔</div><div>2. One</div></div><div><div>✖</div><div>3. Two</div></div><div><div>✖</div><div>4. Three</div></div></div>
Q.36	<p>What was the size of the special economic and comprehensive package launched by the Central Government to fight COVID-19 pandemic in India?</p>
Ans	<div><div><div>✖</div><div>1. ₹2 lakh crore</div></div><div><div>✖</div><div>2. ₹200 lakh crore</div></div><div><div>✖</div><div>3. ₹120 lakh crore</div></div><div><div>✔</div><div>4. ₹20 lakh crore</div></div></div>
Q.37	<p>What should come in place of the question mark (?) in the given series based on the English alphabetical order? GUR QEB AOL KYV ?</p>
Ans	<div><div><div>✖</div><div>1. FIU</div></div><div><div>✖</div><div>2. UFI</div></div><div><div>✖</div><div>3. FUI</div></div><div><div>✔</div><div>4. UIF</div></div></div>

Q.38	SUZD is related to ZBGK in a certain way based on the English alphabetical order. In the same way, UWBF is related to BDIM. To which of the following options is PRWA related, following the same logic?
Ans	<div><div><input type="checkbox"/></div>1. WDHY</div> <div><div><input type="checkbox"/></div>2. WYHD</div> <div><div><input type="checkbox"/></div>3. WDUH</div> <div><div><input checked="" type="checkbox"/></div>4. WYDH</div>

Q.46 In a certain code language,

A + B means 'A is the son of B',
A – B means 'A is the sister of B',
A x B means 'A is the wife of B' and
A ÷ B means 'A is the father of B'.

Based on the above, how is E related to K if 'E ÷ F x G + H – K'?

- Ans
- ☐ 1. Sister's son's wife's brother
 - ☐ 2. Brother's son's wife's father
 - ☐ 3. Brother's son's wife's brother
 - ☒ 4. Sister's son's wife's father

Q.47 Which of the following statements regarding the Theatre Level Operational Readiness Exercise (TROPEX-25) are correct?
TROPEX-25 is an annual exercise involving multiple Indian forces.
The exercise is being conducted in the Indian Ocean Region over a duration of three months.
The exercise includes participation from the Indian Army, Indian Air Force, and Indian Coast Guard.
The exercise focuses solely on cyber and electronic warfare operations.

- Ans
- ☐ 1. 1 and 2 only
 - ☐ 2. 2, 3 and 4 only
 - ☒ 3. 2 and 3 only
 - ☐ 4. 1, 3 and 4 only

Q.48 The percentage profit earned by selling a table lamp for ₹214 is equal to the percentage loss incurred by selling the same table lamp for ₹146. At what price (in ₹) should the table lamp be sold to make 55% profit?

- Ans
- ☐ 1. 278
 - ☐ 2. 282
 - ☒ 3. 279
 - ☐ 4. 276

Q.49 The curved surface area of a cone is 2970 cm², and its diameter is 70 cm. What is its total surface area (in cm²)?

Use $\pi = \frac{22}{7}$

- Ans
- ☒ 1. 6820
 - ☐ 2. 6825
 - ☐ 3. 6827
 - ☐ 4. 6813

Q.50 Each of the digits in the number 31879452 is arranged in the ascending order from left to right. Which of the following digits will be third from the left in the new number thus formed?

- Ans
- ☒ 1. 3
 - ☐ 2. 7
 - ☐ 3. 4
 - ☐ 4. 2

Q.51 Which Princely State was ruled personally by the Nizam and had the 'Sarf Khas' estate?

- Ans
- ☐ 1. Mysore
 - ☐ 2. Kashmir
 - ☒ 3. Hyderabad
 - ☐ 4. Gwalior

Q.52 What should come in place of the question mark (?) in the given series?

982 980 988 986 994 992 ?

- Ans
- ☒ 1. 996
 - ☒ 2. 1000
 - ☒ 3. 1002
 - ☒ 4. 998

Q.53 If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', then what will come in place of the question mark (?) in the following equation?

89 D 7 B 5 C (78 A 6) C 22 = ?

- Ans
- ☒ 1. 105
 - ☒ 2. 74
 - ☒ 3. 89
 - ☒ 4. 97

Q.54 Which summit is scheduled to be held at the Jio World Convention Centre, Mumbai, in May 2025?

- Ans
- ☒ 1. World Global Business Forum
 - ☒ 2. World Media India Expo
 - ☒ 3. World Tech India Summit
 - ☒ 4. World Audio Visual & Entertainment Summit

Q.55 Consider the statements with respect to the National Technical Textiles Mission in India.

- 1. The Union Government has launched a mission named National Technical Textiles Mission (NTTM) in 2025.
- 2. Technical textiles are fabrics made for specific functions and performance, rather than for looks.
- 3. They are used in products that help protect people, improve machinery and solve practical problems, such as in car parts, building materials, medical equipment and safety gear.

Which of the given statements is/are correct?

- Ans
- ☒ 1. 1, 2 and 3
 - ☒ 2. Only 1 and 2
 - ☒ 3. Only 2
 - ☒ 4. Only 2 and 3

Q.56 What is the estimated monthly per capita household consumption expenditure in rural India, as reported by Household Consumption Expenditure Survey: 2023-24?

- Ans
- ☒ 1. ₹4,122
 - ☒ 2. ₹5,000
 - ☒ 3. ₹3,125
 - ☒ 4. ₹6,996

Q.57 Which of the following operating systems provides the highest level of user control over system resources and is most commonly used for professional software development on desktops and laptops?

- Ans
- ☒ 1. macOS
 - ☒ 2. chromeOS
 - ☒ 3. Windows 11
 - ☒ 4. Linux (Ubuntu or Fedora)

Q.58 This question is based on the five, three-digit numbers given below.
(Left) 917 782 549 557 539 (Right)

(Example- 697 – First digit = 6, second digit = 9 and third digit = 7)
(NOTE: All operations to be done from left to right.)

What will be the resultant if the first digit of the highest number is added to the second digit of the lowest number?

Ans ☒ 1. 13

☒ 2. 12

☒ 3. 11

☒ 4. 15

Q.59 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(57, 41, 32)
(65, 49, 40)

Ans ☒ 1. (51, 35, 16)

☒ 2. (72, 56, 47)

☒ 3. (89, 83, 74)

☒ 4. (96, 80, 61)

Q.60 A and B complete a work in 20 days. If A alone can do it in 45 days, then B alone can do one-third of the same work in _____ days.

Ans ☒ 1. 36

☒ 2. 12

☒ 3. 24

☒ 4. 48

Q.61 As per the NITI Aayog Report titled 'FAST TRACKING FREIGHT IN INDIA' of 2021, what was the share of road transport in the freight traffic?

Ans ☒ 1. 50%

☒ 2. 40%

☒ 3. 71%

☒ 4. 62%

Q.62 A, B, L, M, S, T and Z are sitting around a circular table facing the centre. Only four people sit between M and T when counted from the right of M. M sits third to the left of L. S sits third to the left of Z. B is an immediate neighbour of both T and L. How many people sit between A and B when counted from the right of A?

Ans ☒ 1. 2

☒ 2. 1

☒ 3. 3

☒ 4. 4

Q.63 In February 2025, which bank of India has announced \$10 billion three-year dollar/rupee swap auction?

Ans ☒ 1. State Bank of India

☒ 2. Reserve Bank of India

☒ 3. Bank of India

☒ 4. Bank of Baroda

Q.64	Which type of muscle fibres are primarily found in the gastrointestinal tract, and what is a key characteristic of their contraction?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Striated muscle fibres; intermittent and forceful contraction</div> <div><div><input checked="" type="checkbox"/></div>2. Smooth muscle fibres; slow and sustained involuntary contraction</div> <div><div><input checked="" type="checkbox"/></div>3. Cardiac muscle fibres; rhythmic and involuntary contraction</div> <div><div><input checked="" type="checkbox"/></div>4. Skeletal muscle fibres; rapid and voluntary contraction</div>
Q.65	Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete? JCH34 KDI43 LEJ52 MFK61 ?
Ans	<div><div><input checked="" type="checkbox"/></div>1. NGK71</div> <div><div><input checked="" type="checkbox"/></div>2. NGK70</div> <div><div><input checked="" type="checkbox"/></div>3. NGL71</div> <div><div><input checked="" type="checkbox"/></div>4. NGL70</div>
Q.66	Mr. IJK starts from Point A and drives 23 km towards the south. He then takes a right turn, drives 3 km, turns right and drives 27 km. He then takes a right turn and drives 7 km. He takes a final right turn, drives 4 km and stops at Point P. How far (shortest distance) and in which direction should he drive in order to reach Point A again? (All turns are 90-degree turns only unless specified)
Ans	<div><div><input checked="" type="checkbox"/></div>1. 2 km to the east</div> <div><div><input checked="" type="checkbox"/></div>2. 4 km to the west</div> <div><div><input checked="" type="checkbox"/></div>3. 1 km to the north</div> <div><div><input checked="" type="checkbox"/></div>4. 3 km to the south</div>
Q.67	At what rate (in percentage) per annum will ₹1,300 give ₹650 as simple interest in 10 years?
Ans	<div><div><input checked="" type="checkbox"/></div>1. 8%</div> <div><div><input checked="" type="checkbox"/></div>2. 4%</div> <div><div><input checked="" type="checkbox"/></div>3. 7%</div> <div><div><input checked="" type="checkbox"/></div>4. 5%</div>
Q.68	The term 'judicial service' under Articles 233-237 refers to:
Ans	<div><div><input checked="" type="checkbox"/></div>1. Only district judges</div> <div><div><input checked="" type="checkbox"/></div>2. All magistrates, including executive magistrates</div> <div><div><input checked="" type="checkbox"/></div>3. Only sessions judges and additional sessions judges</div> <div><div><input checked="" type="checkbox"/></div>4. District judges and civil judicial posts below them</div>
Q.69	'Purvang' and 'Uttaranga' are two sections of which of the components of Carnatic Music?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Varnam</div> <div><div><input checked="" type="checkbox"/></div>2. Ragamalika</div> <div><div><input checked="" type="checkbox"/></div>3. Anu Pallavi</div> <div><div><input checked="" type="checkbox"/></div>4. Charanam</div>
Q.70	What is the median of the following data? 75, 69, 45, 17, 22, 57, 79, 28, 18, 91, 32
Ans	<div><div><input checked="" type="checkbox"/></div>1. 46</div> <div><div><input checked="" type="checkbox"/></div>2. 45.5</div> <div><div><input checked="" type="checkbox"/></div>3. 44.5</div> <div><div><input checked="" type="checkbox"/></div>4. 45</div>

Q.71	A sells a printer to B at a loss of 60% and B sells the printer to C at a profit of 25%. If C purchased the printer for ₹89,569 then what was the cost (in ₹) of the printer for A?
Ans	<div><div><input type="checkbox"/></div><div>1. 1,79,141</div></div> <div><div><input type="checkbox"/></div><div>2. 1,79,140</div></div> <div><div><input checked="" type="checkbox"/></div><div>3. 1,79,138</div></div> <div><div><input type="checkbox"/></div><div>4. 1,79,134</div></div>

Q.78 Two quadratic equations, $x^2 - 5x + 6 = 0$ and $2x^2 - kx + 6 = 0$, have one common root. What is the possible value of k?

- Ans
- ☒ 1. 5
 - ☒ 2. 11
 - ☒ 3. 7
 - ☒ 4. 9

Q.79 In a certain code language, 'BACK' is coded as '5314' and 'CARB' is coded as '1524'. What is the code for 'R' in the given code language?

- Ans
- ☒ 1. 1
 - ☒ 2. 2
 - ☒ 3. 5
 - ☒ 4. 4

Q.80 Evaluate: 86×104

- Ans
- ☒ 1. 8944
 - ☒ 2. 9044
 - ☒ 3. 8954
 - ☒ 4. 8934

Q.81 In covering a distance of 162 km, Abhay takes 6 hours more than Sameer. If Abhay doubles his speed, then he would take 3 hours less than Sameer. Abhay's initial speed is:

- Ans
- ☒ 1. 8 km/hr
 - ☒ 2. 4 km/hr
 - ☒ 3. 18 km/hr
 - ☒ 4. 9 km/hr

Q.82 ABCD is a quadrilateral in which $AB \parallel DC$, and E and F are the mid points of the diagonals AC and BD, respectively. If $AB = 30$ cm, $BC = 20$ cm, $DC = 86$ cm and $AD = 84$ cm, then what is the length (in cm) of EF?

- Ans
- ☒ 1. 28
 - ☒ 2. 31
 - ☒ 3. 23
 - ☒ 4. 24

Q.83 Three water pipes m, n and p, take 5, 6 and 12 hours, respectively, to fill a water tank. If all three pipes are opened at the same time, then the required time to fill the water tank will be:

- Ans
- ☒ 1. $2\frac{2}{7}$ hours
 - ☒ 2. $1\frac{1}{9}$ hours
 - ☒ 3. $2\frac{1}{9}$ hours
 - ☒ 4. $2\frac{2}{9}$ hours

Q.84	A pouch contains 50 Paisa, 25 Paisa and 10 Paisa coins in the ratio 18 : 12 : 10, amounting to ₹130. Find the number of 10 Paisa coins.
Ans	<div><div><input type="radio"/></div>1. 149</div> <div><div><input type="radio"/></div>2. 184</div> <div><div><input checked="" type="radio"/></div>3. 100</div> <div><div><input type="radio"/></div>4. 180</div>
Q.85	<p>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 conclusion(s) logically follow(s) from the statements.</p> <p>Statements:</p> <p>All terraces are lawns. All lawns are grounds. No ground is a field.</p> <p>Conclusions:</p> <p>(I) No terrace is a field. (II) Some grounds are terraces.</p>
Ans	<div><div><input type="radio"/></div>1. Only conclusion (I) follows.</div> <div><div><input checked="" type="radio"/></div>2. Both conclusions (I) and (II) follow.</div> <div><div><input type="radio"/></div>3. Neither conclusion (I) nor (II) follows.</div> <div><div><input type="radio"/></div>4. Only conclusion (II) follows.</div>
Q.86	The concept of a mixed economy was central to India's early planning strategies. In the context of India's Five-Year Plans, what does the term 'mixed economy' refer to?
Ans	<div><div><input type="radio"/></div>1. Balanced growth of rural and urban areas</div> <div><div><input type="radio"/></div>2. Coexistence of agriculture and industry</div> <div><div><input type="radio"/></div>3. Mix of socialism and communism</div> <div><div><input checked="" type="radio"/></div>4. Coexistence of public and private sectors</div>
Q.87	The average of fifty numbers is 34. If two numbers, namely 34 and 22 are discarded, the average of the remaining numbers is:
Ans	<div><div><input type="radio"/></div>1. 32.25</div> <div><div><input type="radio"/></div>2. 35.25</div> <div><div><input checked="" type="radio"/></div>3. 34.25</div> <div><div><input type="radio"/></div>4. 31.25</div>
Q.88	Which of the following countries is closest to the Nicobar Islands?
Ans	<div><div><input type="radio"/></div>1. Malaysia</div> <div><div><input checked="" type="radio"/></div>2. Myanmar</div> <div><div><input type="radio"/></div>3. China</div> <div><div><input type="radio"/></div>4. Sri Lanka</div>
Q.89	Who is responsible for preparing the inaugural speech of the President of India in Indian Parliament?
Ans	<div><div><input checked="" type="radio"/></div>1. The Council of Ministers</div> <div><div><input type="radio"/></div>2. Lok Sabha Speaker</div> <div><div><input type="radio"/></div>3. The Leader of the Opposition</div> <div><div><input type="radio"/></div>4. The President personally</div>

Q.90	Mr. O starts from Point U and drives 1 km towards the west. He then takes a left turn, drives 2 km, turns right and drives 3 km. He then takes a left turn and drives 4 km. He then takes a left turn, drives 4 km. He takes a final left turn, drives 4 km and stops at Point V. How far (shortest distance) and towards which direction should he drive in order to reach Point U again? (All turns are 90-degree turns only unless specified.)
Ans	<div><div><div>✗</div><div>1. 2 km towards the west</div></div><div><div>✗</div><div>2. 4 km towards the east</div></div><div><div>✗</div><div>3. 4 km towards the south</div></div><div><div>✓</div><div>4. 2 km towards the north</div></div></div>
Q.91	Each of P, Q, R, S, T, U and V has an exam on a different day of a week, starting from Monday and ending on Sunday of the same week. T has an exam on Thursday. U has an exam immediately before T and P has an exam immediately after T. Only 3 people have exams between Q and V. R has an exam immediately after V. How many people have exams before Q?
Ans	<div><div><div>✗</div><div>1. 3</div></div><div><div>✗</div><div>2. 4</div></div><div><div>✗</div><div>3. 2</div></div><div><div>✓</div><div>4. 1</div></div></div>
Q.92	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 :: ? # : PZL :: AKW : %
Ans	<div><div><div>✗</div><div>1. # = URD, % = ISE</div></div><div><div>✗</div><div>2. # = HRD, % = LSE</div></div><div><div>✓</div><div>3. # = HRD, % = ISE</div></div><div><div>✗</div><div>4. # = HRD, % = ISO</div></div></div>
Q.93	Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group? (Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)
Ans	<div><div><div>✗</div><div>1. GK - JN</div></div><div><div>✗</div><div>2. EI - HL</div></div><div><div>✓</div><div>3. ML - KJ</div></div><div><div>✗</div><div>4. LP - OS</div></div></div>
Q.94	Which of the following options in PowerPoint allows you to see all the slides at once as thumbnails?
Ans	<div><div><div>✗</div><div>1. Reading View</div></div><div><div>✓</div><div>2. Slide Sorter View</div></div><div><div>✗</div><div>3. Outline View</div></div><div><div>✗</div><div>4. Slide Show View</div></div></div>
Q.95	When did Expo 2025 Osaka officially open?
Ans	<div><div><div>✗</div><div>1. 15 May 2025</div></div><div><div>✗</div><div>2. 1 March 2025</div></div><div><div>✓</div><div>3. 13 April 2025</div></div><div><div>✗</div><div>4. 10 June 2025</div></div></div>

Q.96 Find the value of $\frac{(3 + 3\tan^2 A)\cot A}{(1 + \cot^2 A)\sec A}$.

- Ans
- ☐ 1. $\tan A$
 - ☐ 2. $\sin A$
 - ☒ 3. $3\sin A$
 - ☐ 4. $3\tan A$

Q.97 What was the main change introduced by the 2015 Amendment to the Citizenship Act?

- Ans
- ☐ 1. Created a new visa category for tourists
 - ☒ 2. Merged PIO and OCI card schemes
 - ☐ 3. Abolished Overseas Citizenship
 - ☐ 4. Introduced Dual Citizenship

Q.98 The average of 10 observations is 40. It was realised later that an observation was misread as 31 in place of 50. Find the correct average.

- Ans
- ☒ 1. 41.9
 - ☐ 2. 44.9
 - ☐ 3. 40.9
 - ☐ 4. 42.9

Q.99 The Ghadar Party, established in 1913 in San Francisco, aimed to overthrow the British rule in India through revolutionary means. Who was the key founder and ideological leader of the Ghadar Party?

- Ans
- ☒ 1. Lala Har Dayal
 - ☐ 2. Lala Lajpat Rai
 - ☐ 3. VD Savarkar
 - ☐ 4. Sachindra Nath Sanyal

Q.100 Which positive number should replace both question marks in the following equation?

- $\frac{?}{11} = \frac{275}{?}$
- Ans
- ☒ 1. 55
 - ☐ 2. 54
 - ☐ 3. 49
 - ☐ 4. 46