



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



Test Date	09/06/2025
Test Time	4:30 PM - 6:00 PM
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 In a certain code language,

A + B means 'A is the mother of B'
A – B means 'A is the brother of B'
A × B means 'A is the wife of B' and
A ÷ B means 'A is the father of B'.

How is M related to Q if 'M + N ÷ O – P × Q'?

- Ans ☒ 1. Wife's father's sister
☒ 2. Wife's mother's mother
☒ 3. Wife's mother's sister
☒ 4. Wife's father's mother

Q.2 Town E is to the east of Town F. Town F is to the south of Town G. Town G is to the east of Town H. Town H is to the west of Town I. Town E is to the south-west of Town I. What is the position of Town G with respect to Town I?

- Ans ☒ 1. East
☒ 2. North
☒ 3. South
☒ 4. West

Q.3 Ashish's salary is ₹11,000 per month. He spends ₹4,000 on house rent and ₹1,500 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 all his monthly savings on birthday celebrations.

- Ans ☒ 1. 55,000
☒ 2. 66,000
☒ 3. 60,500
☒ 4. 49,500

Q.4 Find the value of m for which it satisfies $\left(\frac{21}{8}\right)^{12} \times \left(\frac{8}{21}\right)^{14} \times \left(\frac{21}{8}\right)^{14} = \left(\frac{8}{21}\right)^{9m+20}$.

- Ans
- ☒ 1. $-\frac{25}{9}$
 - ☒ 2. $-\frac{32}{9}$
 - ☒ 3. $-\frac{22}{9}$
 - ☒ 4. $-\frac{37}{9}$

Q.5 A person saves 40% of his income. If his expenditure is ₹480, then his income (in ₹) is:

- Ans
- ☒ 1. 800
 - ☒ 2. 192
 - ☒ 3. 288
 - ☒ 4. 840

Q.6 Which of the following numbers is divisible by 38?

- Ans
- ☒ 1. 1938
 - ☒ 2. 1495
 - ☒ 3. 2620
 - ☒ 4. 2423

Q.7 A can do a piece of work in 57 hours, B and C together can do it in 28 hours, while A and C together can do it in 19 hours. How long (in hours) will B alone take to do it?

- Ans
- ☒ 1. 1597
 - ☒ 2. 1595
 - ☒ 3. 1596
 - ☒ 4. 1598

Q.8 Through which of the following plateaus does the River Damodar flow?

- Ans
- ☒ 1. Meghalaya Plateau
 - ☒ 2. Malwa Plateau
 - ☒ 3. Deccan Plateau
 - ☒ 4. Chhotanagpur Plateau

Q.9 This question is based on the five, three-digit numbers given below.

(Left) 898 740 280 169 993 (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 third digit of the lowest number?

- Ans
- ☒ 1. 17
 - ☒ 2. 18
 - ☒ 3. 21
 - ☒ 4. 19

Q.10 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) 8 £ 6 @ & % 4 6 @ 8 \$ 7 & 3 Ω 9 # 1 * 4 5 (Right)

How many such symbols are there each of which is immediately preceded by an even number and also immediately followed by an odd number?

- Ans
1. Four
-
2. Two

Q.11 Who was the chairman of the National Commission on Farmers (NCF) when it was constituted on 18 November 2004 in India?

- Ans
1. MS Swaminathan
2. Chakravarthi Rangarajan
3. Verghese Kurien
4. Krishnaswamy Kasturirangan

Q.12 Which country hosted the 58th Annual Meeting of the Asian Development Bank (ADB) in 2025, where India discussed the Strategic Action Plan 2025-2029?

- Ans
1. India
2. China
3. Italy
4. Japan

Q.13 What is the projected population of India by 2036, according to the National Commission on Population?

- Ans
1. 1.38 billion
2. 1.52 billion
3. 1.45 billion
4. 1.32 billion

Q.14 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 ::?

: OLR :: PMS : %

- Ans
1. # = JGM, % = URX
2. # = MKI, % = NHU
3. # = KLM, % = NHY
4. # = LKP, % = FGH

Q.15 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.)

50, 4
80, 7

- Ans
1. 90, 11
2. 70, 6
3. 100, 11
4. 60, 6

Q.16 Seven people, I, J, K, L, O, P and Q are sitting in a row, facing north. No one sits to the right of I. Only three people sit between I and J. Only two people sit between J and Q. L sits third to the left of P. K sits to the immediate right of P. How many people sit between O and Q?

- Ans**
- ☒ 1. Three
 - ☐ 2. One
 - ☐ 3. Two
 - ☐ 4. Four

Q.17 Walking at $\frac{2}{5}$ of his normal speed, Abhijeet is 48 minutes late in reaching his office.
The usual time taken by him to cover the distance between his home and his office is:

- Ans**
- ☐ 1. 37 minutes
 - ☒ 2. 32 minutes
 - ☐ 3. 40 minutes
 - ☐ 4. 33 minutes

Q.18 If 2 is added to each even digit and 2 is added to each odd digit in the number 7362145, what will be the sum of all the odd digits in the new number thus formed?

- Ans**
- ☐ 1. 28
 - ☐ 2. 26
 - ☒ 3. 24
 - ☐ 4. 20

Q.19 According to the Regulating Act of 1773 of the East India Company, to whom did the governors of Madras and Bombay report regularly?

- Ans**
- ☐ 1. Court of Directors
 - ☒ 2. The Governor General
 - ☐ 3. The British Crown
 - ☐ 4. The British Parliament

Q.20 The median of the observations 87, 56, 79, 81, 11, 53, 94, 45, 32, 99 and 98 is:

- Ans**
- ☐ 1. 81
 - ☐ 2. 56
 - ☐ 3. 53
 - ☒ 4. 79

Q.21 The book "Gita Rahasya", a philosophical interpretation of the Bhagavad Gita, was written by which of the following leaders?

- Ans**
- ☐ 1. Aurobindo Ghosh
 - ☒ 2. Bal Gangadhar Tilak
 - ☐ 3. Mahatma Gandhi
 - ☐ 4. Gopal Krishna Gokhale

Q.22 The Meissner effect is a defining characteristic of which state of matter?

- Ans**
- ☐ 1. Insulating state
 - ☐ 2. Ferromagnetic state
 - ☐ 3. Paramagnetic state
 - ☒ 4. Superconducting state

Q.23 M, N, O, P, Y and Z live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. Only two people lives between N and Z. Only M lives above P. Y lives on an even numbered floor. N lives on the lowermost floor. How many people live between O and M?

- Ans
- ☒ 1. Three
 - ☒ 2. Four
 - ☒ 3. One
 - ☒ 4. Two

Q.24 What will come in the place of the question mark (?) in the following equation, if ‘+’ and ‘-’ are interchanged and ‘x’ and ‘÷’ are interchanged?

51 ÷ 12 + 162 × 3 – 104 =?

- Ans
- ☒ 1. 662
 - ☒ 2. 642
 - ☒ 3. 672
 - ☒ 4. 652

Q.25 Which of the following films won the 2025 Golden Globe Award for Best Motion Picture – Non-English Language?

- Ans
- ☒ 1. The Girl With The Needle
 - ☒ 2. All We Imagine as Light
 - ☒ 3. Emilia Pérez
 - ☒ 4. I'm Still Here

Q.26 In December 2024, which day honoured Dr BR Ambedkar’s contribution to social justice?

- Ans
- ☒ 1. Mahaparinirvan Diwas
 - ☒ 2. Constitution Awareness Day
 - ☒ 3. Ambedkar Smriti Diwas
 - ☒ 4. National Equality Day

Q.27 What should come in place of the question mark (?) in the given series?

601 600 597 592 585 ?

- Ans
- ☒ 1. 576
 - ☒ 2. 571
 - ☒ 3. 573
 - ☒ 4. 577

Q.28 If the ratio of two numbers is 3 : 16 and the product of their LCM and their HCF is 432, then the sum of the reciprocals of the LCM and the HCF is:

- Ans
- ☒ 1. $\frac{49}{151}$
 - ☒ 2. $\frac{49}{145}$
 - ☒ 3. $\frac{49}{144}$
 - ☒ 4. $\frac{49}{159}$

Q.29	Select the correct statement regarding the properties of diagonals of a rhombus.
Ans	✖ 1. The diagonals of a rhombus are equal, intersect at right angles and bisect each other. ✔ 2. The diagonals of a rhombus are not equal, intersect at right angles and bisect each other. ✖ 3. The diagonals of a rhombus are equal, do not intersect at right angles and bisect each other. ✖ 4. The diagonals of a rhombus are equal, intersect at right angles and do not bisect each other.
Q.30	The capacity of a cuboid tank of water is 70,000 litres. Find the breadth of the tank, if its length and depth are 4 m and 10 m, respectively.
Ans	✔ 1. 1.75 m ✖ 2. 1.85 m ✖ 3. 1.95 m ✖ 4. 1.65 m
Q.31	Sharda Sinha, honoured with the Padma Vibhushan in 2025, was originally known for singing in which Indian languages?
Ans	✔ 1. Bhojpuri and Maithili ✖ 2. Punjabi and Kashmiri ✖ 3. Assamese and Bodo ✖ 4. Marathi and Konkani
Q.32	What should come in place of the question mark (?) in the given series based on the English alphabetical order? FMT AHO VCJ QXE ?
Ans	✖ 1. ZSL ✖ 2. LZS ✖ 3. ZLS ✔ 4. LSZ
Q.33	y varies directly as (x + 3), and y = 8 when x = 1. What is the value of y when x = 2?
Ans	✔ 1. 10 ✖ 2. 5 ✖ 3. 8 ✖ 4. 2
Q.34	The retail price of a water geyser is ₹11,300. If the manufacturer gains 5%, the wholesale dealer gains 10% and the retailer gains 15%, then find the cost price of the water geyser (rounded off to two decimal places.) (Note: Manufacturer sells to wholesaler, wholesaler sells to retailer and retailer sells to customer.)
Ans	✖ 1. ₹9,500.75 ✔ 2. ₹8,507.43 ✖ 3. ₹10,110.11 ✖ 4. ₹6,050.25
Q.35	Who is most commonly associated with the 'safety valve' theory regarding the formation of the Indian National Congress?
Ans	✔ 1. AO Hume ✖ 2. Dadabhai Naoroji ✖ 3. WC Bannerji ✖ 4. Lord Dufferin

Q.36	Which of the following is an indirect tax levied in India?
Ans	✖ 1. Capital Gain Tax ✖ 2. Equalisation Levy ✖ 3. Corporate Tax ✔ 4. Goods and Services Tax
Q.37	Based on the English alphabetical order, three of the following four letter-clusters are alike in a certain way and thus form a group. Which letter-cluster 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	✖ 1. ACG ✖ 2. SUY ✔ 3. BEH ✖ 4. FHL
Q.38	In March 2025, India hosted the inaugural edition of which naval exercise aimed at enhancing maritime cooperation with African nations?
Ans	✖ 1. Exercise MILAN ✔ 2. Africa-India Key Maritime Engagement ✖ 3. Indian Ocean Naval Symposium (IONS) ✖ 4. Exercise VARUNA
Q.39	The Scythians, or Shakas, originally came from _____.
Ans	✖ 1. Eastern Europe ✔ 2. Central Asia ✖ 3. Southeast Asia ✖ 4. South India
Q.40	In MS Word 365, what is the shortcut to remove manual character formatting from selected text?
Ans	✖ 1. Ctrl + Z ✖ 2. Ctrl + Shift + N ✖ 3. Ctrl + B ✔ 4. Ctrl + Spacebar
Q.41	A, B, C, D, E and F live on six different floors of the same building. The lowermost floor in the building is numbered 1, the floor above it, number 2 and so on till the topmost floor is numbered 6. E lives on a floor which is a prime number. The product of floors on which E and A live is 8. C lives immediately above F. The sum of floors on which A and B live is 7. How many people live between C and E?
Ans	✖ 1. One ✔ 2. Three ✖ 3. Two ✖ 4. Four
Q.42	The sculpture of bearded man, found in Mohejo-daro, is made of which material?
Ans	✖ 1. Bronze ✖ 2. Terracota ✖ 3. Copper ✔ 4. Stone

Q.43	In the context of file deletion, what is the typical immediate effect of moving a file to the 'Trash' or 'Recycle Bin' in a GUI-based Operating System?
Ans	 1. The file's data is immediately overwritten and unrecoverable.  2. The file's metadata (inode or equivalent) is immediately purged from the file system.  3. The file is compressed and archived before being permanently deleted.  4. The file is moved to a special directory, and its directory entry is updated, but the data remains on the storage device.
Q.44	Which Himalayan range is the northern-most and contains the loftiest peaks?
Ans	 1. Shiwalik  2. Himachal Himalaya  3. Purvachal  4. Himadri
Q.45	Determine the nature of the roots of the quadratic equation $3x^2 + 2x + 5 = 0$.
Ans	 1. Complex Roots (Imaginary Roots)  2. Real and Equal Roots  3. Real and Distinct Roots  4. More than 2 real roots
Q.46	The original price of a music set is ₹8,000. The price is decreased by 12% and then raised by 20%. What is its new price (in ₹)?
Ans	 1. 7,748  2. 7,948  3. 8,948  4. 8,448
Q.47	Simplify: $\frac{36}{9} \times (74 + 12) + 99$
Ans	 1. 446  2. 449  3. 444  4. 443
Q.48	There are two sections A and B of a class, consisting of 22 and 44 students, respectively. If the average weight of section A is 40 kg and that of section B is 34 kg, find the average weight of the whole class (in kg).
Ans	 1. 35.5  2. 36  3. 37  4. 36.5
Q.49	In a certain code language, 'read this book' is coded as 'op st qr' and 'book on table' is coded as 'qr lm pq'. How is 'book' coded in the given language?
Ans	 1. op  2. pq  3. lm  4. qr

Q.50	If a : b = 3 : 4 and b : c = 4 : 7, then $\frac{a + b + c}{c}$ is equal to:
Ans	1. $\frac{7}{2}$ 2. $\frac{14}{3}$ 3. 14

4.

2

Q.57	As per the Indian Space Association (ISpA) in 2025, _____ satellites out of the approved 52-satellite constellation for the defence sector are expected to be built by the private sector.
Ans	✖ 1. 41 ✖ 2. 52 ✔ 3. 31 ✖ 4. 21
Q.58	What was the unemployment rate for persons aged 15 years and above in rural India during the period 2022-23, according to the Periodic Labour Force Survey (PLFS) annual report 2022-23?
Ans	✖ 1. 5.1% ✖ 2. 4.0% ✖ 3. 3.5% ✔ 4. 2.4%
Q.59	In which of the following cities Gharanas of Thumri are based?
Ans	✖ 1. Gwalior and Bhopal ✔ 2. Banaras and Lucknow ✖ 3. Agra and Kirana ✖ 4. Patiala and Talwandi
Q.60	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: Some guns are bombs. Some guns are cargos. Some bombs are riffles. Conclusions: (I): Some guns are riffles. (II): Some bombs are cargos.
Ans	✖ 1. Only conclusion (II) follows. ✖ 2. Only conclusion (I) follows. ✖ 3. Both conclusions (I) and (II) follow. ✔ 4. Neither conclusion (I) nor (II) follows.
Q.61	A shopkeeper marked his goods at X% above their cost price and sold them at a discount of 16%. If he gained 68% profit, then find the value of X.
Ans	✖ 1. 101 ✔ 2. 100 ✖ 3. 99 ✖ 4. 102
Q.62	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	✔ 1. MQ - UZ ✖ 2. GJ - PS ✖ 3. EH - NQ ✖ 4. JM - SV

Q.63 Walking at $\frac{2}{5}$ of his normal speed, Abhijeet is 18 minutes late in reaching his office.

The usual time taken by him to cover the distance between his home and his office is:

Ans ☒ 1. 12 minutes

☐ 2. 2 minutes

☐ 3. 9 minutes

☐ 4. 11 minutes

Q.64 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 ::?

: UWC :: OHW : %

Ans ☐ 1. # = MCU, % = KXS

☐ 2. # = QMY, % = MCU

☒ 3. # = SRA, % = QMY

☐ 4. # = KXS, % = SRA

Q.65 Raj has ₹1,218 with him. He divided it amongst his sons Varun and Ashish and asked them to invest it at 10% rate of interest per annum, compounded annually. It was seen that Varun and Ashish got the same amount after 13 and 14 years, respectively. How much (in ₹) did Raj give to Ashish?

Ans ☒ 1. ₹580

☐ 2. ₹638

☐ 3. ₹738

☐ 4. ₹430

Q.66 On International Women’s Day 2025, which Indian bank launched ‘Asmita’, a collateral-free digital SME loan tailored for women entrepreneurs?

Ans ☐ 1. Bank of Baroda

☐ 2. HDFC Bank

☒ 3. State Bank of India

☐ 4. Axis Bank

Q.67 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

AHE CJG ELI GNK ?

Ans ☐ 1. ION

☐ 2. IPN

☐ 3. IOM

☒ 4. IPM

Q.68 Which of the following components is NOT part of the CPU?

Ans ☒ 1. Hard Disk Drive (HDD)

☐ 2. Cache memory

☐ 3. Arithmetic Logic Unit (ALU)

☐ 4. Control Unit (CU)

Q.69	Select the number from among the given options that can replace the question mark (?) in the following series. 13 26 29 58 61 122 125 ?
Ans	 1. 131  2. 250  3. 225  4. 128
Q.70	What was the budget allocated in the Smart City Mission for the financial year 2023-24?
Ans	 1. ₹10,000 crore  2. ₹6,000 crore  3. ₹12,000 crore  4. ₹8,000 crore
Q.71	What is Tetrachloromethane primarily used for in manufacturing?
Ans	 1. Fertiliser production and pesticide refining  2. Glass manufacturing and ceramic treatment  3. Textile dyeing and coloring of woollen clothes  4. Production of refrigerants and aerosol propellants
Q.72	The diameter of a metallic solid sphere is 42 cm. It is melted and drawn into a wire with a cross-sectional diameter of 0.6 cm. Find the length (in metre) of the wire.
Ans	 1. 1372  2. 1367  3. 1362  4. 1364
Q.73	If $x + y = 10$, product of x and y is 16, then the value of $x^4 + y^4$ is:
Ans	 1. 4092  2. 4175  3. 4073  4. 4112
Q.74	A ladder 10.6 m long is leaning against a wall. It makes an angle of 30° with the ground. How high does the ladder reach on the wall?
Ans	 1. $5.3\sqrt{2}$ m  2. 5.6 m  3. $5.3\sqrt{3}$ m  4. 5.3 m
Q.75	If '-' means '÷', '÷' means 'x', 'x' means '+' and '+' means '-', then what will come in place of the question mark (?) in the following equation? $3 \div 45 \times 855 - 19 + 16 = ?$
Ans	 1. 180  2. 136  3. 164  4. 460

Q.76	The peasant struggle of the Warli tribe in the year 1945 occurred in which of the following states of India?
Ans	 1. Mizoram  2. Maharashtra  3. Kerala  4. Gujarat
Q.77	This question is based on the five, three-digit numbers given below. (Left) 773 263 387 270 378 (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 lowest number is subtracted from the first digit of the highest number?
Ans	 1. 6  2. 8  3. 5  4. 4
Q.78	A, B, C, D, G, H, and I are sitting around a circular table facing the centre. Only one person sits between H and I when counted from the right of H. Only one person sits between I and C. Only one person sits between H and G. Only two people sit between A and C. Only one person sits between B and G. Who sits third to the right of D ?
Ans	 1. C  2. G  3. A  4. I
Q.79	From 10-14 February 2025, in which city did India host the annual Conference of the International Institute of Administrative Sciences (IIAS) for the first time?
Ans	 1. Gandhinagar  2. New Delhi  3. Hyderabad  4. Ahmedabad
Q.80	20 dual desks and 12 chairs were bought for ₹79,600. If the average cost of a dual desk was ₹3,500, find the average cost of a chair.
Ans	 1. ₹850  2. ₹920  3. ₹950  4. ₹800
Q.81	Vijay ranked 34th from the top and 11th from the bottom in his class. How many students are there in his class?
Ans	 1. 42  2. 44  3. 45  4. 43

Q.82	Which of the following shortcut keys can be used to quickly open a presentation in PowerPoint?
Ans	 1. Alt + O  2. Shift + O  3. Tab + O  4. Ctrl + O
Q.83	Which Constitutional Article specifically provides for free legal aid to the poor?
Ans	 1. Article 21  2. Article 32  3. Article 44  4. Article 39A
Q.84	VO Chidambaram Pillai was actively involved in the revolutionary movement in which of the following areas?
Ans	 1. Calcutta  2. Delhi  3. Bombay  4. Madras
Q.85	Where is plantation agriculture mainly practised in India?
Ans	 1. Kerala and Assam  2. Odisha and Chhattisgarh  3. Punjab and Haryana  4. Rajasthan and Gujarat
Q.86	Select the triad that follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern. HO-JQ-LN JQ-LS-NP
Ans	 1. LS-NU-PR  2. LS-NU-PQ  3. KS-NU-PQ  4. KS-NV-PQ
Q.87	What provision was extended under the 104 th Constitutional Amendment Act, 2020?
Ans	 1. Term of the Lok Sabha  2. GST Council term  3. Reservation for SC/ST in legislatures  4. Voting age for elections
Q.88	How long (in years) will it take for ₹1,680 to become ₹2,100 at a rate of 4% per annum simple interest?
Ans	 1. 6.25  2. 7.25  3. 8.25  4. 5.25

Q.89 Which feature in Windows allows you to create shortcuts to frequently used folders for easier access?

- Ans
- ☐ 1. File Explorer
 - ☐ 2. Libraries
 - ☐ 3. Task Bar
 - ☒ 4. Quick Access

Q.90 LQRU is related to ONTS in a certain way based on the English alphabetical order. In the same way, RKVQ is related to UHXO. To which of the given options is XEZM related, following the same logic?

- Ans
- ☐ 1. BCAK
 - ☐ 2. BABJ
 - ☒ 3. ABBK
 - ☐ 4. ZBZL

Q.91 If $a^2 + b^2 = 144$, $a \times b = 24$ and $a > b$, then find the value of $\frac{a - b}{a + b}$.

- Ans
- ☐ 1. $\frac{1}{2}$
 - ☒ 2. $\sqrt{\frac{1}{2}}$
 - ☐ 3. $\sqrt{\frac{1}{3}}$
 - ☐ 4. $\frac{1}{3}$

Q.92 Two concentric circles have radii of 10 cm and 26 cm. Find the length of the chord of the larger circle that is tangent to the smaller circle.

- Ans
- ☐ 1. 20 cm
 - ☒ 2. 48 cm
 - ☐ 3. 50 cm
 - ☐ 4. 52 cm

Q.93 What is the mean of the following distribution?

Marks	13	27	59	61	97
No. of Students	95	57	80	98	73

- Ans
- ☐ 1. 31
 - ☐ 2. 45
 - ☒ 3. 51
 - ☐ 4. 74

Q.94 Which Indian state became the first to establish a Senior Citizens Commission in March 2025?

- Ans
- ☒ 1. Kerala
 - ☐ 2. Gujarat
 - ☐ 3. Maharashtra
 - ☐ 4. Tamil Nadu

Q.95 The cost of 5 shirts and 7 trousers together is ₹6,150 and the cost of 3 shirts is equal to the cost of 4 trousers. What is the cost (in ₹) of 2 shirts and 2 trousers together?

- Ans
- ✗ 1. 2,150
 - ✗ 2. 2,400
 - ✓ 3. 2,100
 - ✗ 4. 2,250

Q.96 If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 8457312, what will be sum of the highest and lowest digits in the number thus formed?

- Ans
- ✗ 1. 7
 - ✗ 2. 6
 - ✓ 3. 8
 - ✗ 4. 9

Q.97 In a certain code language, 'NOSE' is coded as '3517' and 'OILY' is coded as '2458'. What is the code for 'O' in the given code language?

- Ans
- ✗ 1. 1
 - ✓ 2. 5
 - ✗ 3. 2
 - ✗ 4. 7

Q.98 A group of numbers/symbols is coded using letter codes as per the codes given below and the conditions that follow. If none of the conditions apply, then codes for the respective number/symbol to be followed directly as given in the table.

Number/Symbol	9	2	@	&	3	4	5	%	1	8	Δ	7	6
Code	L	C	Z	M	D	W	A	P	R	T	F	B	K

- Conditions:
- (i) If the first element is a symbol and the last 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 an even 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 the following group?
7 & 2 @ 9 % 2

- Ans
- ✗ 1. M M C Z L P ©
 - ✗ 2. © M Z C L P ©
 - ✗ 3. © M C Z P L ©
 - ✓ 4. © M C Z L P ©

Q.99 Which of the following sports events were included in the school-level competitions organised by the Uttar Pradesh government in December 2024?

- Ans
- ✗ 1. Cricket and badminton
 - ✗ 2. Tennis and swimming
 - ✓ 3. Kabaddi and kho-kho
 - ✗ 4. Basketball and athletics

Q.100 What special status did the Sixty-ninth Amendment Act, 1991 give to Delhi?

- Ans
- ✗ 1. Granted full Statehood to Delhi
 - ✓ 2. Designated Delhi as the National Capital Territory with a legislative assembly
 - ✗ 3. Made Delhi a Union Territory without a legislature
 - ✗ 4. Brought Delhi under the control of the President through the Governor