



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



Test Date	13/06/2025
Test Time	12:45 PM - 2:15 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.

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

Section : RRB NTPC Graduate Level I

**Q.1** 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.)

(41, 34, 24)  
(63, 80, 23)

- Ans
- ☒ 1. (46, 86, 24)
  - ☒ 2. (43, 40, 23)
  - ☒ 3. (17, 14, 11)
  - ☒ 4. (17, 2, 19)

**Q.2** What provision was sanctioned by the Charter Act of 1813?

- Ans
- ☒ 1. Ban on child labour
  - ☒ 2. Railways in India
  - ☒ 3. Introduction of western sciences
  - ☒ 4. Doctrine of Lapse

**Q.3** The marked price of a wardrobe is ₹668, which is 22% above the cost price. If the profit percentage is 7%, find the discount percentage (rounded off to two decimal places).

- Ans
- ☒ 1. 9.52%
  - ☒ 2. 12.30%
  - ☒ 3. 9.87%
  - ☒ 4. 11.79%

**Q.4** What is the primary reason that roughage is included in a balanced human diet?

- Ans
- ☒ 1. It builds muscles.
  - ☒ 2. It aids digestion and prevents constipation.
  - ☒ 3. It helps in fat storage.
  - ☒ 4. It increases sugar absorption.

**Q.5** Which material was used to make the famous 'Dancing Girl' statue that belonged to the Indus Valley Civilization?

- Ans
- ☒ 1. Iron
  - ☒ 2. Silver
  - ☒ 3. Bronze
  - ☒ 4. Cooper

Q.6 Which of the following urban areas is identified as **Million Plus Urban Agglomerations Cities** as per Census of India 2001?

- Ans
- ☐ 1. Chandigarh
  - ☐ 2. Kannauj
  - ☒ 3. Lucknow
  - ☐ 4. Dehradun

Q.7 IL 17 is related to LN 12 in a certain way. In the same way, MN 12 is related to PP 7. To which of the given options is VR 4 related, following the same logic?

- Ans
- ☐ 1. VX -3
  - ☐ 2. BX -9
  - ☒ 3. YT -1
  - ☐ 4. NF -7

Q.8 Each of C, D, E, F, S, T and U has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. F has the exam on Thursday. C has the exam on one of the days after S and on one of the days before E. U has the exam on one of the days after T but on one of the days before D. T has the exam on one of the days after F. How many people have their exams between U and C?

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

Q.9 If 'P' stands for '+', 'Q' stands for 'x', 'R' stands for '+' and 'S' stands for '-', then the resultant of which of the following would be 50?

- Ans
- ☐ 1. 24 S 4 Q 28 P 12 R 6
  - ☐ 2. 24 Q 4 R 28 S 12 P 6
  - ☒ 3. 24 P 4 S 28 R 12 Q 6
  - ☐ 4. 24 R 4 P 28 Q 12 S 6

Q.10 Which of the following modern physicist closely examined Newtonian mechanics' foundations?

- Ans
- ☐ 1. James Clerk Maxwell
  - ☐ 2. Ernst Mach
  - ☐ 3. Galileo Galilei
  - ☒ 4. Albert Einstein

Q.11 Which of the following statements regarding the Industrial Sector in India is/are correct?

1. According to National Manufacturing Policy 2011, every job created in the manufacturing sector creates two-three additional jobs in related activities.
2. Industries add value to the existing goods and also to the skill of labour employed in it; therefore, this sector is also considered a transformational sector.
3. As industries employ a large part of the population, industrial development is one of the preconditions for the eradication of unemployment and poverty from our country.

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

Q.12 In a certain code language,  
'A + B' means 'A is the sister of B'  
'A – B' means 'A is the brother of B'  
'A × B' means 'A is the wife of B'  
'A ÷ B' means 'A is the father of B'.

Based on the above, how is M related to Q if 'M ÷ N + O × P – Q'?

- Ans
- ☐ 1. Wife's Father
  - ☐ 2. Brother's Wife's Brother
  - ☐ 3. Wife's Brother
  - ☒ 4. Brother's Wife's Father

Q.13 In January 2025, National Youth Day was celebrated to mark the birth anniversary of which Indian leader?

- Ans
- ☐ 1. Subhas Chandra Bose
  - ☐ 2. Rabindranath Tagore
  - ☒ 3. Swami Vivekananda
  - ☐ 4. Raja Rammohan Roy

Q.14 A tap fills a cistern in 18 hours. Another tap empties the full tank in 24 hours. How long (in hours) will it take to fill three-fourth of the tank, if the tank is empty initially and both the taps are open together?

- Ans
- ☐ 1. 108
  - ☐ 2. 162
  - ☒ 3. 54
  - ☐ 4. 216

Q.15 If the sum of three numbers a, b and c is 5, the sum of the product of two numbers at a time is –2 and the product of the numbers a, b and c is 3. Find the value of  $a^3 + b^3 + c^3$ .

- Ans
- ☒ 1. 164
  - ☐ 2. 148
  - ☐ 3. 159
  - ☐ 4. 126

Q.16 What should come in place of the question mark (?) in the given series?

942 940 936 930 922 ?

- Ans
- ☐ 1. 910
  - ☐ 2. 908
  - ☐ 3. 906
  - ☒ 4. 912

Q.17 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

BI16, EL24, HO32, KR40, ?

- Ans
- ☐ 1. NV48
  - ☒ 2. NU48
  - ☐ 3. NU47
  - ☐ 4. NV47

**Q.18** A boat travels 14 km upstream in 14 hours and 171 km downstream in 9 hours. What is the speed of the boat in still water?

- Ans**
- ☐ 1. 18 km/hf
  - ☐ 2. 6 km/hr
  - ☐ 3. 17 km/hf
  - ☒ 4. 10 km/hr

**Q.19** Which of the following changes was introduced in 2024 under the Companies Act amendments to enhance corporate social responsibility (CSR) transparency in India?

- Ans**
- ☒ 1. Mandatory quarterly CSR reporting accompanied by independent audits
  - ☐ 2. Exemption of companies with a turnover below ₹500 crore from CSR obligations
  - ☐ 3. Requirement for at least 50% of board members to be CSR specialists
  - ☐ 4. Reduction in the minimum CSR spending threshold for all eligible companies

**Q.20** Which of the following options best describes the principle of 'collective executive responsibility' as applicable to the Council of Ministers in India?

- Ans**
- ☐ 1. Ministers can opt out of collective responsibility if they disagree publicly.
  - ☐ 2. Only the Prime Minister is responsible for decision-making.
  - ☒ 3. All ministers share full responsibility for government decisions.
  - ☐ 4. Each minister is independent and is solely accountable for his/her actions.

**Q.21** In February 2025, five cheetahs were released into which national park of India?

- Ans**
- ☒ 1. Kuno National Park
  - ☐ 2. Periyar Wildlife Sanctuary
  - ☐ 3. Gir National Park
  - ☐ 4. Kanha National Park

**Q.22** 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 is the letter-cluster pair that 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. PI - KJ
  - ☐ 2. KO - LP
  - ☐ 3. QU - RV
  - ☐ 4. NR - OS

**Q.23** The Nizam of Hyderabad tried to project his rule as:

- Ans**
- ☐ 1. a British protectorate
  - ☐ 2. a Hindu monarchy
  - ☒ 3. a Muslim sovereignty in Deccan
  - ☐ 4. a secular republic

**Q.24** In March 2025, which anniversary of National Defence Day was observed to honour the sacrifices of India's armed forces?

- Ans**
- ☐ 1. 76<sup>th</sup> Anniversary
  - ☐ 2. 60<sup>th</sup> Anniversary
  - ☒ 3. 87<sup>th</sup> Anniversary
  - ☐ 4. 65<sup>th</sup> Anniversary

**Q.25** If 1 is added to each odd digit and 2 is subtracted from each even digit in the number 3518642, then what will the sum of the digits that are second from the left and second from the right in the new number thus formed be?

- Ans**
- ☒ 1. 8
  - ☐ 2. 9
  - ☐ 3. 7
  - ☐ 4. 6

**Q.26** A cistern has a hole in the bottom through which the water is leaking. A tap can fill the cistern in 8 hours and the hole in the bottom can empty the fully filled cistern in 10 hours. If both the tap and the hole are open, then what will be the time taken to completely fill the empty cistern?

- Ans**
- ☐ 1. 21.5 hours
  - ☐ 2. 34 hours
  - ☒ 3. 40 hours
  - ☐ 4. 48.5 hours

**Q.27** In a certain code language, 'OWNS' is coded as '5391' and 'SIDE' is coded as '2458'. What is the code for 'S' in the given code language?

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

**Q.28** What is another name for the Great Himalayan range?

- Ans**
- ☐ 1. Shiwalik Range
  - ☒ 2. Inner Himalayas
  - ☐ 3. Central Axial Range
  - ☐ 4. Northeastern Hills

**Q.29** In a certain code language, 'friends good company' is coded as 'li ta ph' and 'friends create nostalgia' is coded as 'ta bu cy'. How is 'friends' coded in the given language?

- Ans**
- ☒ 1. ta
  - ☐ 2. bu
  - ☐ 3. li
  - ☐ 4. ph

**Q.30** In a certain code language, 'LIKE' is coded as '6284' and 'HAIR' is coded as '9578'.

What is the code for 'I' in the given code language?

- Ans**
- ☐ 1. 9
  - ☐ 2. 2
  - ☒ 3. 8
  - ☐ 4. 7

**Q.31** Select the triad that follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

IF-KH-OQ  
KH-MJ-QS

- Ans**
- ☐ 1. MJ-OL-SV
  - ☒ 2. MJ-OL-SU
  - ☐ 3. NJ-OL-SV
  - ☐ 4. NJ-OK-SV

**Q.32** In February 2025, the Ministry of Corporate Affairs extended the deadline for private companies to dematerialise their securities. What is the new deadline?

- Ans**
- ☐ 1. 31 March 2025
  - ☐ 2. 30 September 2025
  - ☒ 3. 30 June 2025
  - ☐ 4. 31 December 2025

**Q.33** During the colonial period, India's industrial development was the result of British policies. Which of the following options best describes the nature of industrial development in India at the eve of independence?

- Ans**
- ☒ 1. Limited industrial activity, mainly concentrated in a few cities like Calcutta and Bombay
  - ☐ 2. Strong domestic capital goods industry in all provinces
  - ☐ 3. Widespread industrial growth across rural and urban areas
  - ☐ 4. Balanced regional distribution of heavy industries

**Q.34** Three numbers are in the ratio 2 : 1 : 5, and their LCM is 5380. Their HCF is:

- Ans**
- ☒ 1. 538
  - ☐ 2. 537
  - ☐ 3. 541
  - ☐ 4. 539

**Q.35** Which of the following authorities was strengthened in 2024 to enforce penalties and green clearances under India's environmental regulations?

- Ans**
- ☐ 1. Forest Advisory Council
  - ☐ 2. National Environment Management Authority
  - ☐ 3. National Biodiversity Authority
  - ☒ 4. Central Pollution Control Board

**Q.36** 2 bags and 11 pens together cost ₹505, whereas 10 bags and 10 pens together cost ₹1310. The cost of 8 bags exceeds the cost of 8 pens by:

- Ans**
- ☐ 1. ₹618
  - ☐ 2. ₹619
  - ☒ 3. ₹616
  - ☐ 4. ₹617

**Q.37** NW -19 is related to PZ -10 in a certain way. In the same way, RD -12 is related to TG -3. To which of the given options is WU -2 related, following the same logic?

- Ans**
- ☐ 1. ZA -5
  - ☐ 2. ZZ -5
  - ☒ 3. YX -7
  - ☐ 4. XA -7

**Q.38** The average of 36 numbers is 45. If two numbers 37 and 53 are discarded, find the average of the remaining numbers.

- Ans**
- ☒ 1. 45
  - ☐ 2. 43
  - ☐ 3. 42
  - ☐ 4. 40

Q.39 Seven boxes, A, B, C, D, E, F and G, are kept one over the other but not necessarily in the same order. Only two boxes are kept between G and B. Only A is kept above F. No box is kept below B. E is kept in some place below C, but in some place above D. How many boxes are kept above E?

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

Q.40 If the mode of a data set exceeds its mean by 37.8, then the mode exceeds the median by \_\_\_\_\_.  
(Use empirical formula.)

- Ans
- ☐ 1. 29.3
  - ☐ 2. 31.6
  - ☐ 3. 24.8
  - ☒ 4. 25.2

Q.41 The mean proportional between  $(13 + 8\sqrt{5})$  and  $(10 - 2\sqrt{5})$  is:

- Ans
- ☐ 1.  $10\sqrt{2}$
  - ☐ 2.  $5\sqrt{2}$
  - ☐ 3.  $\sqrt{54 + 50\sqrt{5}}$
  - ☒ 4.  $\sqrt{50 + 54\sqrt{5}}$

Q.42 If both roots of the quadratic equation,  $x^2 + 3x + 2 = 0$ , are also roots of another quadratic equation,  $ax^2 + bx + c = 0$ , then which of the following must be true?

- Ans
- ☐ 1.  $a + 3b + 2c = 0$
  - ☐ 2.  $a = b = c$
  - ☐ 3.  $\frac{a}{1} = \frac{b}{2} = \frac{c}{3}$
  - ☒ 4.  $ax^2 + bx + c$  must be a multiple of  $x^2 + 3x + 2$

Q.43 Raghav starts from Point A and drives 8 km towards South. He then takes a left turn, drives 6 km, turns left and drives 11 km. He then takes a left turn and drives 12 km. He takes a final left turn, drives 3 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are  $90^\circ$  turns only, unless specified)

- Ans
- ☐ 1. 4 km to the east
  - ☐ 2. 5 km to the east
  - ☒ 3. 6 km to the east
  - ☐ 4. 3 km to the east

Q.44 How many launches of the LVM-3 rocket are planned for the Chandrayaan-4 mission?

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

Q.45 If the eight-digit number 31425p99 is divisible by 9, then the maximum value of p is:

- Ans
- ☒ 1. 3
  - ☐ 2. 4
  - ☐ 3. 5
  - ☐ 4. 8

Q.46 Where was the 2024 International Conference of NGOs organised by UNESCO held?

- Ans
- ☒ 1. Paris, France
  - ☐ 2. Vienna, Austria
  - ☐ 3. Geneva, Switzerland
  - ☐ 4. New York City, USA

Q.47 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 \* \$ 2 3 7 £ 1 7 @ 4 9 9 \* 6 \* 3 \$ 1 \$ @ (Right)

How many such numbers are there each of which is immediately preceded by a symbol and also immediately followed by a symbol?

- Ans
- ☐ 1. 5
  - ☒ 2. 4
  - ☐ 3. 6
  - ☐ 4. 3

Q.48 Which Hindustani music style has originated from the folk songs of the camel-riders of North-West India?

- Ans
- ☐ 1. Khayal
  - ☒ 2. Tappa
  - ☐ 3. Dhrupad
  - ☐ 4. Thumri

Q.49 The volume (in  $m^3$ ) of a cube, each of whose edges is 42 m, is:

- Ans
- ☐ 1. 74,236
  - ☐ 2. 74,009
  - ☐ 3. 74,283
  - ☒ 4. 74,088

Q.50 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.

Statements:

All boys are handsome.

Some handsome are cars.

Some cars are grey.

Conclusions:

(I) All handsome are boys.

(II) All cars are handsome.

- Ans
- ☐ 1. Only conclusion (I) follows.
  - ☐ 2. Both conclusions (I) and (II) follow.
  - ☒ 3. Neither conclusion (I) nor (II) follows.
  - ☐ 4. Only conclusion (II) follows.

Q.51 On 24 January 2025, which day was celebrated to promote girls' rights and welfare in India?

- Ans
- ☐ 1. National Girl Equality Day
  - ☐ 2. National Girl Safety Day
  - ☐ 3. National Girl Empowerment Day
  - ☒ 4. National Girl Child Day



**Q.52** A, B, C, D, G, H and I are sitting around a circular table facing the centre of the table. Only one person sits between D and G when counted from the left of G. H sits third to the right of I. C sits third to the left of A. H sits to the immediate right of C. B is not an immediate neighbour of C. How many people sit between B and G when counted from the right of B?

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

**Q.53** What significant financial commitment was agreed upon during the extended session of COP16 in Rome?

- Ans**
- ☐ 1. \$150 billion annually for renewable energy
  - ☐ 2. \$250 billion annually for sustainable agriculture
  - ☐ 3. \$100 billion annually for climate adaptation
  - ☒ 4. \$200 billion annually for biodiversity conservation

**Q.54** A shopkeeper expects a gain of 34% on his cost price. If, in a week, his sales proceeds were ₹3,417, what was his profit (in ₹)?

- Ans**
- ☐ 1. 865
  - ☒ 2. 867
  - ☐ 3. 870
  - ☐ 4. 864

**Q.55** When the difference between compound interest, compounded annually, and simple interest for three years is ₹186 at 10% interest per annum, the principal is ₹\_\_\_\_\_.

- Ans**
- ☐ 1. 5,425
  - ☒ 2. 6,000
  - ☐ 3. 6,420
  - ☐ 4. 7,200

**Q.56** In applications with multiple tabs (like browsers or MS Word), what does Ctrl + Tab do?

- Ans**
- ☐ 1. Opens a new tab
  - ☐ 2. Closes the current tab
  - ☒ 3. Switches to the next tab
  - ☐ 4. Refreshes the tab

**Q.57** According to the 2011 Census, which island in Lakshadweep has the smallest population?

- Ans**
- ☐ 1. Agatti
  - ☒ 2. Bitra
  - ☐ 3. Kavaratti
  - ☐ 4. Kalpeni

**Q.58** Under which List of the Indian Constitution are co-operative societies classified?

- Ans**
- ☐ 1. Concurrent List
  - ☒ 2. State List
  - ☐ 3. Residuary Powers
  - ☐ 4. Union List

**Q.59** Agro-forestry was conceived on the recommendation of which policy to promote plantation on farmlands?

- Ans**
- ☐ 1. Protection of Plant Varieties & Farmers' Rights Act, 2001
  - ☐ 2. National Agro-forestry Policy, 2019
  - ☐ 3. National Forest Policy of 2018
  - ☒ 4. National Agro-forestry Policy, 2014

**Q.60** In which state is the shifting agriculture known as 'Jhum'?

- Ans**
- ☐ 1. Odisha
  - ☐ 2. Kerala
  - ☐ 3. Madhya Pradesh
  - ☒ 4. Assam

**Q.61** A, B, C, D, E and W 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. No one lives below D. Only two people live between E and W. Only two people live between C and A. Only one person lives between D and A. E lives on some floor above A. How many people live below B?

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

**Q.62** Evaluate:  $30 - [30 - \{30 - (30 - 30 \times 3)\}]$

- Ans**
- ☒ 1. 90
  - ☐ 2. 109
  - ☐ 3. 107
  - ☐ 4. 105

**Q.63** Mr. K starts from Point Z and drives 6 km towards the north. He then takes a right turn, drives 3 km, turns right and drives 11 km. He then takes a right turn and drives 10 km. He then takes a final right turn, drives 5 km and stops at Point B. How far (shortest distance) and towards which direction should he drive in order to reach Point Z again? (All turns are 90 degree turns only unless specified.)

- Ans**
- ☐ 1. 4 km towards the south
  - ☐ 2. 4 km towards the west
  - ☐ 3. 11 km towards the north
  - ☒ 4. 7 km towards the east

**Q.64** Mohan bought 51 books at ₹1,120 per book from one shop and 48 books at ₹900 per book from another. What is the average price (rounded off to two decimal places, in ₹) he paid per book?

- Ans**
- ☐ 1. 1,028.33
  - ☐ 2. 1,003.33
  - ☒ 3. 1,013.33
  - ☐ 4. 1,023.33

**Q.65** According to the NITI Aayog's policy brief 'India's Booming Gig and Platform Economy' (2022), what is the projected size of the gig workforce in India by 2029-30?

- Ans**
- ☐ 1. 45 million
  - ☐ 2. 50 million
  - ☒ 3. 23.5 million
  - ☐ 4. 35 million

**Q.66** What should come in place of the question mark (?) in the given series?

189 166 155 132 121 98 ?

**Ans**  1. 92


 2. 87


 3. 66

 4. 75

**Q.67** What is India's Human Development Index (HDI) value in the 2025 Human Development Index Report?

**Ans**  1. 0.685

 2. 0.575

 3. 0.690


 4. 0.675

**Q.68** Which of the following is an example of an input device that allows users to interact with a computer by typing text?

**Ans**  1. Printer

 2. Keyboard

 3. Speaker

 4. Monitor

**Q.69** Seven people, I, J, K, L, O, P and Q are sitting in a row, facing north. Only three people sit between I and J. L sits to the immediate left of J. No one sits to the right of Q. Only two people sit between Q and L. K sits to the immediate right of P. How many people sit between O and K?

**Ans**  1. One

 2. Four

 3. Three

 4. Two

**Q.70** What is the third proportional of  $6x^2$  and  $18xy$ ?

**Ans**  1.  $52y^2$

 2.  $53y^2$

 3.  $54y^2$

 4.  $51y^2$

**Q.71** What will come in the place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?

$186 \div 5 + 189 \times 3 - 2 = ?$

**Ans**  1. 869

 2. 887

 3. 884

 4. 881

**Q.72** Each of the digits in the number 8514932 is arranged in the descending order from left to right. The position(s) of how many digits will remain unchanged in the new number thus formed as compared to that in the original number?

**Ans**  1. 1

 2. 3

 3. 4

 4. 2

Q.73 In the balanced reaction  $2\text{Al} + 3\text{Cl}_2 \rightarrow 2\text{AlCl}_3$ , what is the mole ratio of aluminium to aluminium chloride?

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

Q.74 ABC and XYZ are two congruent triangles with  $\angle A : \angle B : \angle C = 2 : 4 : 4$ . Find  $\angle X + \angle Z$ .

- Ans
- ☐ 1.  $72^\circ$
  - ☐ 2.  $90^\circ$
  - ☒ 3.  $108^\circ$
  - ☐ 4.  $144^\circ$

Q.75 Simplify:

$$\frac{7^2 \times 7^3}{\sqrt{49} \times \sqrt{2401}}$$

- Ans
- ☐ 1. 58
  - ☒ 2. 49
  - ☐ 3. 46
  - ☐ 4. 59

Q.76 A man spends 30% of his monthly salary on house rent. If every month, he also spends ₹751 on conveyance and ₹8,481 on grocery and saves the remaining ₹715, his monthly salary is:

- Ans
- ☐ 1. ₹14,261
  - ☒ 2. ₹14,210
  - ☐ 3. ₹14,301
  - ☐ 4. ₹14,206

Q.77 Which of the following ratios is greatest?

- Ans
- ☐ 1. 18 : 57
  - ☐ 2. 27 : 57
  - ☐ 3. 27 : 54
  - ☒ 4. 30 : 49

Q.78 The mode of the observations 4, 1, 5, 2, 8, 6, 7, 4, 3, 5, 1, 6, 4, 9 and 4 is:

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

Q.79 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 ::?

# : OLM :: HEF : %

- Ans
- ☐ 1. # = RUI, % = ESA
  - ☐ 2. # = POP, % = EUC
  - ☒ 3. # = ROP, % = EBC
  - ☐ 4. # = RVP, % = EQZ

**Q.80** Consider a computer system with a multi-core processor. What is the primary advantage of having multiple cores compared to a single-core processor with the same clock speed when executing multiple independent tasks simultaneously?

- Ans**
- ☐ 1. Reduced power consumption for the overall system
  - ☐ 2. Increased capacity for the system's main memory (RAM)
  - ☒ 3. Improved ability to handle and execute multiple separate processes concurrently
  - ☐ 4. Enhanced speed for executing a single, heavily threaded application

**Q.81** In the context of computer memory hierarchy, which of the following statements regarding access speed and cost per bit is generally true as you move from registers towards secondary storage?

- Ans**
- ☒ 1. Access speed decreases and cost per bit decreases
  - ☐ 2. Access speed increases and cost per bit decreases
  - ☐ 3. Access speed increases and cost per bit increases
  - ☐ 4. Access speed decreases and cost per bit increases.

**Q.82** Which of the following is NOT correctly matched?

- Ans**
- ☐ 1. Lushai Revolt - Assam
  - ☒ 2. Heraka Movement - West Bengal
  - ☐ 3. Kol Rebellion - Jharkhand
  - ☐ 4. Ramosi Rebellion - Maharashtra

**Q.83** A man receives ₹5,140 per month as salary. He saves 35% of his salary every month. His expenditure per month is:

- Ans**
- ☐ 1. ₹3,251
  - ☐ 2. ₹3,361
  - ☐ 3. ₹3,380
  - ☒ 4. ₹3,341

**Q.84** A rectangular tin sheet is 17 cm long and 22 cm wide. It is rolled along its width to form a cylinder, with opposite edges just touching each other. Find the volume (in  $\text{cm}^3$ ) of the cylinder.

- Ans**
- ☐ 1.  $\frac{2050}{\pi}$
  - ☐ 2.  $\frac{2054}{\pi}$
  - ☒ 3.  $\frac{2057}{\pi}$
  - ☐ 4.  $\frac{2053}{\pi}$

**Q.85** Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) \* 4 \* 2 9 @ @ 8 3 £ \$ 6 4 £ \* 4 8 £ % 9 8 8 (Right)

How many such symbols are there each of which is immediately preceded by a number and also immediately followed by a symbol?

- Ans**
- ☐ 1. 5
  - ☐ 2. 3
  - ☐ 3. 6
  - ☒ 4. 4

**Q.86** Who has the authority to make laws for multi-state co-operative societies?

- Ans**
- ☐ 1. State Legislature
  - ☐ 2. District Collector
  - ☐ 3. High Court
  - ☒ 4. Parliament

**Q.87** The base and the corresponding height of a parallelogram are 97 cm and 43 cm, respectively. The area of the parallelogram (in  $\text{cm}^2$ ) will be:

- Ans**
- ☐ 1. 4184
  - ☐ 2. 4191
  - ☒ 3. 4171
  - ☐ 4. 4165

**Q.88** Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

URM 14, TQL 18, SPK 22, ROJ 26, ?

- Ans**
- ☐ 1. PQM 28
  - ☐ 2. PLI 28
  - ☐ 3. PRN 30
  - ☒ 4. QNI 30

**Q.89** Under the reign of Islamic rulers, which among the following used to be a private building?

- Ans**
- ☐ 1. Katra
  - ☐ 2. Bridges
  - ☐ 3. Sarai
  - ☒ 4. Diwan-i-khas

**Q.90** Kiran borrowed a sum of ₹16,000 at a certain rate of simple interest for 2 years. If he paid an interest of ₹4,000 at the end of the period at x% per annum rate of interest, the value of x is:

- Ans**
- ☐ 1. 11.5
  - ☐ 2. 13.5
  - ☒ 3. 12.5
  - ☐ 4. 14.5

**Q.91** 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. RX – VP
  - ☐ 2. GM – JE
  - ☐ 3. AG – DY
  - ☐ 4. NT – QL

**Q.92** Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) \* 6 8 @ 1 £ 9 5 3 @ \$ 9 © @ 7 9 £ @ 9 1 £ 6 (Right)

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

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

**Q.93** The Rashtrakutas dominated which part of India after the Guptas?

- Ans**
- ☒ 1. Deccan
  - ☐ 2. Central India
  - ☐ 3. Odisha
  - ☐ 4. Bengal

**Q.94** In its advisory capacity, the Union Cabinet's advice to the President of India is considered:

- Ans**
- ☐ 1. overruled by the Speaker of the Lower House
  - ☒ 2. binding to the President
  - ☐ 3. limited only to economic matters
  - ☐ 4. merely suggestive and non-binding

**Q.95** If  $\sin 5A = \cos(A - 42^\circ)$ , where  $5A$  is an acute angle, find the value of  $A$ .

- Ans**
- ☐ 1.  $21^\circ$
  - ☒ 2.  $22^\circ$
  - ☐ 3.  $20^\circ$
  - ☐ 4.  $23^\circ$

**Q.96** Which plateau lies between the Aravali and the Vindhya Range?

- Ans**
- ☐ 1. Deccan
  - ☒ 2. Malwa
  - ☐ 3. Chota Nagpur
  - ☐ 4. Meghalaya





**Q.97** A man covers distances of 819 km, 1476 km, and 1053 km at the speeds of 63 km/hr, x km/hr, and 81 km/hr, respectively. If his average speed for the whole journey is 54 km/hr, then what is the value of x?

- Ans**
- ☐ 1. 43
  - ☒ 2. 41
  - ☐ 3. 46
  - ☐ 4. 38




**Q.98** The selling price of 10 books is equal to the cost price of 16 books. Find the loss or gain percentage.

- Ans**
- ☒ 1. 60% gain
  - ☐ 2. 60% loss
  - ☐ 3.  $\frac{50}{3}\%$  gain
  - ☐ 4.  $\frac{50}{3}\%$  loss

**Q.99** Which of the following is NOT mentioned in Part IV of the Indian Constitution?

- Ans**
-  1. Promotion of international peace and security
  -  2. Provision for free and compulsory education for children
  -  3. Organisation of agricultural and animal husbandry
  -  4. Promotion of Hindi language as a medium of expression

**Q.100** Which of the following devices can function as both input and output devices?

- Ans**
-  1. Touch Screen
  -  2. Microphone
  -  3. Projector
  -  4. Scanner