# रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

## सीईएन - 07/2025 - एनटीपीसी पूर्व-स्नातक स्तर - CEN - 07/2025 - NTPC UNDER GRADUATE LEVEL

| | |
|---|---|
| Test Date | 18/06/2026 |
| Test Time | 12:45 PM - 2:15 PM |
| Subject | RRB NTPC UnderGraduate CBT 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 : **Mathematics**

**Q.1**

Simplify: $\frac{\left(\frac{16}{21}\right)}{\left(\frac{16}{4}\right)} \div \left(\frac{4}{5} \times \frac{10}{12} + \frac{4}{7}\right) + \frac{4}{8} \div \frac{26}{14} \text{ of } \frac{14}{8}$

**Ans**

✔ A. $\frac{4}{13}$

✘ B. $\frac{1}{15}$

✘ C. $\frac{7}{23}$

✘ D. $\frac{2}{5}$

**Q.2**

In quadrilateral PQRS, $\angle P = 2\angle Q$, $\angle Q = \frac{\angle R}{4}$, $\angle R = 2\angle S$. Find the value of $\angle S$.

**Ans**

✘ A. $60^\circ$

✘ B. $85^\circ$

✔ C. $80^\circ$

✘ D. $45^\circ$

**Q.3**

The value of $\left(2 + \frac{3}{2}\right)^2 - \left[4 - \left(\frac{6}{3}\right)^2\right] \div \frac{1}{2}$ is

**Ans**

✘ A. $\frac{7}{4}$

✔ B. $\frac{49}{2}$

✘ C. $\frac{49}{4}$

✘ D. $\frac{7}{2}$

Q.4 A car travels 560 km in 9.5 hours, partly at 40 km/h and partly at 160 km/h. Find the distance travelled at 160 km/h.

Ans
- ✗ A. 216 km
- ✓ B. 240 km
- ✗ C. 230 km
- ✗ D. 260 km

Q.5 Two banks, A and B, offered loans at 3.5% and 6.5% per annum, respectively. Ashish borrowed an amount of ₹3,40,000 from each bank. Find the positive difference between the amounts of simple interest (in ₹) paid to the two banks by Ashish after 2 years.

Ans
- ✗ A. 21,900
- ✗ B. 19,900
- ✓ C. 20,400
- ✗ D. 21,400

Q.6 Three positive numbers are in proportion such that the ratio of the first number to the second number is the same as the ratio of the second number to the third number. If the first number is 16 and the second number is 24, find the value of the third number.

Ans
- ✗ A. 64
- ✗ B. 32
- ✓ C. 36
- ✗ D. 48

Q.7 The price of an article is increased by 20%. In the next step, it is decreased by x% of the new price. Finally, the price is increased by 10% of the original price. If the final price becomes exactly equal to the original price, the value of x is:

Ans
- ✗ A. 22.75
- ✗ B. 12.25
- ✓ C. 25
- ✗ D. 17.5

Q.8 A four-digit number 3P2Q is divisible by both 2 and 3. Find the smallest value of P + Q.

Ans
- ✗ A. 4
- ✗ B. 7
- ✗ C. 2
- ✓ D. 1

Q.9 If the mean proportional between x and 36 is 12, find x.

Ans
- ✗ A. 7
- ✗ B. 5
- ✓ C. 4
- ✗ D. 6

Q.10 The price of an article is first increased by 20% and then decreased by 20%. If the original price of the article is ₹500, what is the net percentage change in the price?

Ans
- ✗ A. 2% increase
- ✗ B. No change
- ✓ C. 4% decrease
- ✗ D. 5% decrease

Q.11 A man bought an article and sold it at a profit of 15%. If he had bought it at 25% less cost price and sold it for ₹294 less than the original selling price, he would have made a profit of 30%. Find the cost price of the article.

Ans
- ✗ A. ₹1,630
- ✗ B. ₹1,540
- ✗ C. ₹1,590
- ✓ D. ₹1,680

Q.12 A bus travels 90 km at 45 km/h, 120 km at 60 km/h, and 150 km at 75 km/h. What is the average speed of the bus for the entire journey?

Ans
- ✗ A. 66 km/h
- ✗ B. 70 km/h
- ✗ C. 55 km/h
- ✓ D. 60 km/h

Q.13 Pipes A and B can fill a tank in 12 hours and 15 hours, respectively. A third pipe C can empty the full tank in 20 hours. If A and B are opened together for 2 hours and then C is also opened, what is the total time taken to fill the tank?

Ans
- ✗ A. 10 hours
- ✗ B. 8 hours
- ✗ C. 9.5 hours
- ✓ D. 9 hours

Q.14 Arun sold an article for ₹1,786.40 and incurred a loss of 12%. At what price should he sell the article to earn a profit of 14%?

Ans
- ✗ A. ₹2,268.70
- ✗ B. ₹2,112.20
- ✗ C. ₹2,485.70
- ✓ D. ₹2,314.20

Q.15 Two taps can fill a cistern in 4 hours and 8 hours, respectively. A third tap can empty it in 8 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

Ans
- ✓ A. 1
- ✗ B. 4
- ✗ C. 2
- ✗ D. 3

Q.16 The cost of 5 chairs and 3 tables is ₹12,500, while the cost of 3 chairs and 5 tables is ₹15,500. Find the cost of 2 chairs and 2 tables.

Ans
- ✓ A. ₹7,000
- ✗ B. ₹6,000
- ✗ C. ₹6,500
- ✗ D. ₹7,500

Q.17 Sixteen identical solid cubes, each of side 2 cm, are melted and recast into a cuboid whose length is twice its breadth and height equals its breadth. Find the volume of the cuboid.

Ans
- ✗ A. $64\ cm^3$
- ✓ B. $128\ cm^3$
- ✗ C. $96\ cm^3$
- ✗ D. $100\ cm^3$

Q.18 The combined present age of P and Q is 46 years. 2 years ago from now, P was twice as old as Q. What is the present age of P?

Ans
- ✗ A. 16 years
- ✓ B. 30 years
- ✗ C. 20 years
- ✗ D. 28 years

Q.19 The sides of two square gardens are 16 m and 25 m, respectively. A third square garden is to be constructed such that the length of its side is the mean proportional between the sides of the given two gardens. What will be the length of the side of the new square garden?

Ans
- ✗ A. 18 m
- ✗ B. 21 m
- ✗ C. 19 m
- ✓ D. 20 m

Q.20 A specialized printing machine can print 2400 pages in 1 hour and 20 minutes. At this steady rate, how many pages can the machine print in 45 minutes?

Ans
- ✗ A. 1500
- ✓ B. 1350
- ✗ C. 1250
- ✗ D. 1450

Q.21 Three numbers are in the ratio 9 : 7 : 5, and their LCM is 2205. Their HCF is:

Ans
- ✓ A. 7
- ✗ B. 29
- ✗ C. 34
- ✗ D. 24

Q.22 Simplify: $55\frac{1}{8} + 55\frac{3}{8} + 55\frac{5}{8} + 55\frac{7}{8}$

Ans
- ✗ A. 224
- ✓ B. 222
- ✗ C. 226
- ✗ D. 220

Q.23 The sum of two positive numbers is 32 and their product is 220. The positive difference between them is:

Ans
- ✗ A. 17
- ✓ B. 12
- ✗ C. 16
- ✗ D. 11

Q.24 What sum (in ₹) will earn a simple interest of ₹1,440 in 2 years at 16% per year rate of interest?

Ans
- ✗ A. 460.8
- ✗ B. 2,250
- ✓ C. 4,500
- ✗ D. 9,000

**Q.25** If the mean of the following data is 40, find the missing frequency.

| x | 10 | 20 | 30 | 40 | 50 | 60 |
|---|---|---|---|---|---|---|
| frequency | 2 | 3 | 1 | 4 | f | 4 |

**Ans**

✗ A. 1

✗ B. 7

✓ C. 5

✗ D. 4

**Q.26** A person standing on level ground looks up at the top of a vertical tower. The angle of elevation formed at the observer's eye is 60°. If the tower is 18 m high, determine the horizontal distance (in meters) between the person and the base of the tower.

**Ans**

✓ A. $6\sqrt{3}$

✗ B. $7\sqrt{3}$

✗ C. $5\sqrt{3}$

✗ D. $4\sqrt{3}$

**Q.27** Find the sum of the surface areas of three spheres of radii 2 cm, 3 cm and 6 cm.

$(\text{Take } \pi = \frac{22}{7})$

**Ans**

✓ A. 616 $cm^2$

✗ B. 620 $cm^2$

✗ C. 608 $cm^2$

✗ D. 612 $cm^2$

**Q.28** A shopkeeper offers the following schemes on toys of the same marked price.
(A) Successive discounts of 24% and 33% on any number of toys bought.
(B) Successive discounts of 39%, 37% and 23% on any number of toys bought.
(C) 24% discount on the first 2 toys and 12% discount on each toy thereon.
(D) 2 toys free of cost on buying 5 toys.
A customer wants to buy 5 toys. Which of the above schemes is the least beneficial to her?

**Ans**

✗ A. A

✓ B. C

✗ C. B

✗ D. D

**Q.29** An article is marked at ₹3,000. The shopkeeper offers successive discounts of 10% and 20%. What is the final selling price of the article?

**Ans**

✗ A. ₹2,250

✗ B. ₹2,100

✗ C. ₹2,200

✓ D. ₹2,160

**Q.30** Find the mode for the following distribution.

| CL | 40-45 | 45-50 | 50-55 | 55-60 | 60-65 | 65-70 | 70-75 | 75- |
|---|---|---|---|---|---|---|---|---|
| Frequency | 4 | 4 | 13 | 5 | 6 | 5 | 2 | 1 |

**Ans**

✗ A. 54.60

✗ B. 51.34

✓ C. 52.65

✗ D. 48.57

Section : **General Awareness**

**Q.31** Which of the following swimmers won gold in the 200 m breaststroke at the 2025 World Aquatics Championships, setting a championship record and an American record?

**Ans**

✗ A. Evgeniia Chikunova

✗ B. Claire Curzan

✗ C. Torri Huske

✓ D. Kate Douglass

**Q.32** The President of India can make regulations for peace, progress, and good governance of which Union Territories without Legislative Assemblies?

**Ans**

✗ A. Puducherry and Delhi

✗ B. Chandigarh and Puducherry

✓ C. Andaman & Nicobar Islands, Lakshadweep, Dadra & Nagar Haveli and Daman & Diu

✗ D. Jammu & Kashmir and Ladakh

**Q.33** Children of Indian citizens born abroad become Indian citizens by descent only if the birth is registered at an Indian consulate within what time period?

**Ans**

✗ A. Six months

✓ B. One year

✗ C. Three years

✗ D. Four years

**Q.34** A user wants to quickly pause work and resume in few minutes without waiting for the computer to reboot. The best option is:

**Ans**

✗ A. Complete shutdown

✓ B. Sleep mode

✗ C. Reinstall OS

✗ D. Format disk

**Q.35** Which of the following portrays the movement led by Baba Ramchandra?

**Ans**

✗ A. A workers' strike in factories

✗ B. A religious reform movement

✓ C. A rural uprising against exploitative landlords

✗ D. A protest against British education policy

**Q.36** According to the research study by the State Bank of India (SBI) in 2024, what is the level of poverty in India?

**Ans**

✗ A. above 5% and below 10%

✓ B. below 5%

✗ C. above 15%

✗ D. less than 18% but more than 10%

**Q.37** Which of the following is an example of biomagnification in a food chain?

**Ans**

✗ A. Increased nitrate levels causing algal blooms

✗ B. Evaporation of pesticides from water bodies into the air

✗ C. Rapid sedimentation of silt at the river bottom

✓ D. Rising concentration of DDT from water to algae to fish to birds

**Q.38** The Kuki Rebellion (1917–19) took place in which region?

**Ans**

✗ A. Assam

✗ B. Tripura

✓ C. Manipur

✗ D. Nagaland

**Q.39** Which of the following statements is INCORRECT regarding organic farming?

**Ans**

✗ A. Organic farming does not use synthetic chemicals.

✗ B. Organic farming is beneficial for soil biota.

✗ C. Organic farming is environment-friendly.

✓ D. Organic farming relies heavily on high technology.

**Q.40** Which of the following strategies is crucial for fostering infrastructure development in developing countries?

**Ans**

✗ A. Sole reliance on government funding

✗ B. Restricting foreign investment

✓ C. Promotion of public-private partnerships

✗ D. Focusing only on urban areas

**Q.41** Under whose chairmanship was a 12-member drafting committee recently constituted to frame a law under the High Seas Treaty 'BBNJ'?

**Ans**

✗ A. Ramesh Pokhriyal

✓ B. Sanjay Upadhyay

✗ C. Nitin Gadkari

✗ D. Ravi Shankar Prasad

**Q.42** Which language is known for its unique script called "Gurmukhi"?

**Ans**

✗ A. Hindi

✗ B. Bengali

✓ C. Punjabi

✗ D. Urdu

**Q.43** Article 371A of the Constitution of India states 'privilege of special status was also accorded to the North-Eastern State of Nagaland'. This represents which federalism?

**Ans**

✗ A. Competitive federalism

✓ B. Asymmetric federalism

✗ C. Centralised federalism

✗ D. Bargaining federalism

**Q.44** The Cholas came to power after overthrowing the authority of which of the following dynasties in South India?

**Ans**

✓ A. Pallavas

✗ B. Chera

✗ C. Rashtrakuta

✗ D. Satavahana

**Q.45** Which action does pressing the F5 key usually perform in Windows?

**Ans**

✓ A. Refreshes the current window or page

✗ B. Navigates to the next tab

✗ C. Opens a new window

✗ D. Opens help

**Q.46** On 3 November 2025, which state government started the Chief Minister Jibon Prerana Scheme?

**Ans**

✗ A. Odisha

✗ B. Manipur

✗ C. Sikkim

✓ D. Assam

**Q.47** Which award is presented to the women's singles champion at the Wimbledon Tennis Championships?

**Ans**
- ✗ A. Suzanne Lenglen Trophy
- ✗ B. Borg-McEnroe Trophy
- ✓ C. Venus Rosewater Dish
- ✗ D. Arthur Ashe Trophy

**Q.48** Which substance would you use to test if lemon juice contains acid?

**Ans**
- ✗ A. Water
- ✓ B. Litmus paper
- ✗ C. Baking soda
- ✗ D. Sugar

**Q.49** In Harappan Civilization, at Dholavira, _____ was/were used to build massive fortifications.

**Ans**
- ✗ A. wood
- ✗ B. granite
- ✓ C. stone
- ✗ D. bricks

**Q.50** According to the Equirus Capital report on India's Green Building Market, India's green building sector is projected to grow at a CAGR of 10.5% and reach an estimated size of $85 billion by which year?

**Ans**
- ✓ A. 2032
- ✗ B. 2033
- ✗ C. 2031
- ✗ D. 2030

**Q.51** Which organisation's leaders gathered in Tianjin for a summit in late August–early September, 2025?

**Ans**
- ✓ A. Shanghai Cooperation Organization (SCO)
- ✗ B. Group of Twenty (G20)
- ✗ C. Commonwealth (CW)
- ✗ D. Association of Southeast Asian Nations (ASEAN)

**Q.52** Which of these is **NOT** an example of fundamental quantity?

**Ans**
- ✗ A. Time
- ✓ B. Velocity
- ✗ C. Electric Current
- ✗ D. Luminous Intensity

**Q.53** Which of the following is the largest multipurpose river valley project in India?

**Ans**
- ✗ A. Sardar Sarovar
- ✓ B. Bhakra Nangal
- ✗ C. Damodar Valley
- ✗ D. Hirakud

**Q.54** RAM and ROM belong to which broader category?

**Ans**
- ✗ A. Processing units
- ✗ B. Input devices
- ✓ C. Primary memory
- ✗ D. Output devices

Q.55 You can often hear a person speaking from behind a tall fence even if you cannot see them. Which property of sound waves explains this phenomenon?

Ans
- ✗ A. Reflection
- ✓ B. Diffraction
- ✗ C. Polarization
- ✗ D. Refraction

Q.56 Which of the following rivers is primarily responsible for the formation of badland topography in India?

Ans
- ✗ A. Ganga
- ✗ B. Yamuna
- ✗ C. Brahmaputra
- ✓ D. Chambal

Q.57 Which Indian state has the Konkan Coast along its western shoreline?

Ans
- ✓ A. Maharashtra
- ✗ B. Odisha
- ✗ C. Kerala
- ✗ D. Karnataka

Q.58 In India, the concept of judicial activism, as reflected through innovative interpretations of the Constitution and expansion of the scope of judicial review, was introduced during which of the following periods?

Ans
- ✓ A. Mid-1970s
- ✗ B. Mid-1980s
- ✗ C. Mid-1960s
- ✗ D. Mid-1990s

Q.59 The Pallava temples at Mahabalipuram are made mainly from:

Ans
- ✗ A. Laterite
- ✗ B. Sandstone alone
- ✗ C. Marble
- ✓ D. Granite

Q.60 Which of the following geographical factors most directly influences the location and growth of human settlements?

Ans
- ✗ A. Distance from the equator
- ✗ B. Color of local soil
- ✓ C. Availability of fresh water
- ✗ D. Shape of nearby hills

Q.61 Which of the following is a non-point source of water pollution?

Ans
- ✗ A. Industrial discharge pipe
- ✗ B. Urban stormwater drain
- ✗ C. Sewage outlet
- ✓ D. Agricultural runoff

Q.62 Who led the Portuguese expedition that first landed in Calicut, India, in 1498?

Ans
- ✓ A. Vasco da Gama
- ✗ B. Pedro Álvares Cabral
- ✗ C. Alfonso de Albuquerque
- ✗ D. Bartholomew Diaz

**Q.63** Which Acts are being amended to allow private sector participation in India's nuclear energy sector?

**Ans**
- ✔ A. Atomic Energy Act, 1962 & CLND Act, 2010
- ✘ B. Atomic Energy Act, 1962 & Energy Conservation Act, 2001
- ✘ C. Electricity Act, 2003 & Atomic Energy Act, 1962
- ✘ D. Electricity Act, 2003 & CLND Act, 2010

**Q.64** After defeating the Shakas and annexing their territories in western India, which Gupta ruler assumed the imperial title "Vikramaditya" to mark his supremacy?

**Ans**
- ✘ A. Kumaragupta I
- ✘ B. Skandagupta
- ✘ C. Samudragupta
- ✔ D. Chandragupta II

**Q.65** The Committee on Government Assurances primarily deals with _____ .

**Ans**
- ✔ A. Promises and undertakings made by Ministers in Parliament
- ✘ B. Monitoring of government expenditure in Parliament
- ✘ C. Examining Rules under Article 312
- ✘ D. Policy review of public enterprises

**Q.66** World Toilet Day was observed on which date in 2025?

**Ans**
- ✘ A. 9 October
- ✘ B. 19 October
- ✘ C. 9 November
- ✔ D. 19 November

**Q.67** Which Article of the Indian Constitution directs the State to protect and improve the environment?

**Ans**
- ✘ A. Article 37A
- ✘ B. Article 43A
- ✘ C. Article 39A
- ✔ D. Article 48A

**Q.68** Which of the following countries participated in the 3$^{rd}$ edition of the Joint Special Forces Exercise 'CYCLONE' at Mahajan Field Firing Ranges in Rajasthan from 10$^{th}$ to 23$^{rd}$ February 2025?

**Ans**
- ✔ A. India and Egypt
- ✘ B. India and Namibia
- ✘ C. India and China
- ✘ D. India and Iran

**Q.69** When a program in Windows appears as "Not Responding" and the user ends it using Task Manager, which action is effectively being requested from the operating system?

**Ans**
- ✘ A. Convert the program into a service
- ✘ B. Change the program's file type
- ✘ C. Move the program to another drive
- ✔ D. Force the process to terminate and release its resources

Q.70 When moving down a group in the Modern Periodic Table, what happens to the number of valence electrons?

Ans
- ✔ A. Remains the same
- ✘ B. Increases by two
- ✘ C. Decreases by one
- ✘ D. Increases by one

Section : **General Intelligence and Reasoning**

Q.71 In a row of 38 people facing the north, Keerthi is 13$^{th}$ from the right end. If Tanvi sits 7$^{th}$ to the left of Keerthi, what is Tanvi's position from the left end of the row?

Ans
- ✔ A. 19$^{th}$
- ✘ B. 20$^{th}$
- ✘ C. 17$^{th}$
- ✘ D. 18$^{th}$

Q.72 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group?
(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter cluster.)

Ans
- ✔ A. CDB
- ✘ B. GHE
- ✘ C. LMJ
- ✘ D. STQ

Q.73 Which letter cluster will replace the question mark (?) to complete the given series?

CDX DFU EHR ? GLL

Ans
- ✘ A. FTR
- ✘ B. FGY
- ✘ C. FDR
- ✔ D. FJO

Q.74 Refer to the following letter series and answer the question that follows.

(Left) H U N V Y M L N D M Q M B E M N Z W M J I N F Q N (Right)

How many letters are there in the English alphabetical series between the letter which is fifth from the right end and eighth from the left end of the series?

Ans
- ✘ A. Three
- ✘ B. Five
- ✘ C. Two
- ✔ D. Four

Q.75 Seven boxes, G, H, I, J, Q, R and S, are kept one over the other, but not necessarily in the same order.
Only two boxes are kept between I and R. Only J is kept above S. Only three boxes are kept below I. H is kept at some place below G but at some place above Q.
Which box is kept third above Q?

Ans
- ✘ A. J
- ✘ B. R
- ✘ C. S
- ✔ D. G

Q.76 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

RHE 53, WMC 61, BRA 69, GWY 77, ?

Ans
- ✗ A. KBV 83
- ✗ B. MAX 85
- ✓ C. LBW 85
- ✗ D. KCU 83

Q.77 What should come in place of '?' in the given series?
135 146 168 201 245 ?

Ans
- ✓ A. 300
- ✗ B. 310
- ✗ C. 290
- ✗ D. 280

Q.78 Abhinav starts from Point A and drives 16 km towards the west. He then takes a right turn, drives 8 km, turns right and drives 19 km. He then takes a right turn and drives 14 km. He takes a final right 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-degree turns only unless specified.)

Ans
- ✗ A. 5 km to the south
- ✓ B. 6 km to the north
- ✗ C. 5 km to the north
- ✗ D. 6 km to the south

Q.79 Each of the digits in the number 7632198 is arranged in ascending order from left to right. The position(s) of how many digits will remain unchanged as compared to that in the original number?

Ans
- ✓ A. ONE
- ✗ B. NONE
- ✗ C. THREE
- ✗ D. TWO

Q.80 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 one 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 pairs.)

Ans
- ✗ A. KJ-PZ
- ✓ B. HG – NW
- ✗ C. FE-KU
- ✗ D. PO – UE

Q.81 Based on the alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one 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
- ✓ A. JKO
- ✗ B. ROS
- ✗ C. MJN
- ✗ D. LIM

Q.82 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

PCO QGL RKI SOF ?

Ans
- ✗ A. SKM
- ✗ B. CAP
- ✗ C. SDF
- ✓ D. TSC

Q.83 In a certain code language,
A + B means 'A is the sister of B',
A - B means 'A is the daughter of B',
A × B means 'A is the son of B', and
A ÷ B means 'A is the husband of B'.
Based on the above, how is V related to R if 'V - D + Q × T ÷ R'?

Ans
- ✗ A. Daughter
- ✗ B. Son's wife
- ✗ C. Sister's daughter
- ✓ D. Daughter's daughter

Q.84 DI 12 is related to JE 3 in a certain way. In the same way, EW 11 is related to KS 2. To which of the following is KN 19 related, following the same logic?

Ans
- ✗ A. TR 11
- ✗ B. HY 14
- ✓ C. QJ 10
- ✗ D. LP 9

Q.85 Refer to the given number series and answer the question that follows. Counting to be done from left to right only. All numbers are single-digit numbers only.

(Left) 3 8 7 5 3 2 1 9 6 4 8 7 5 2 1 4 6 3 2 9 8 7 5 4 1 5 2 6 9 8 7 5 6 3 2 1 5 4 7 8 5 1 2 5 9 6 3 9 8 7 5 1 4 5 2 (Right)

How many such even digits are there, each of which is immediately preceded by a perfect square and immediately followed by an odd digit? (NOTE: 1 is also a perfect square.)

Ans
- ✗ A. 2
- ✗ B. 4
- ✓ C. 8
- ✗ D. 6

Q.86 In a certain code language, 'JACK' is coded as '9621' and 'CALK' is coded as '6231'. What is the code for 'L' in the given code language?

Ans
- ✗ A. 6
- ✓ B. 3
- ✗ C. 2
- ✗ D. 1

Q.87 Refer to the following series and answer the question. (Counting to be done from left to right only.) (All numbers are single-digit numbers only.)
(Left) 1 1 9 4 8 6 9 2 4 2 8 9 7 1 3 2 7 5 8 2 1 5 3 (Right)
How many such odd digits are there, each of which is immediately preceded by an odd digit and also immediately followed by an odd digit?

Ans
- ✗ A. Two
- ✓ B. Four
- ✗ C. Three
- ✗ D. Five

Q.88 What should come in place of '?' in the given series?

280 225 175 130 90 55 ?

Ans
- ✗ A. 31
- ✗ B. 34
- ✗ C. 28
- ✓ D. 25

Q.89 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 bottles are jars. All jars are boxes.
Conclusions
(I) Some boxes are bottles.
(II) All boxes are jars.

Ans
- ✗ A. Both conclusions (I) and (II) follow
- ✓ B. Only conclusion (I) follows
- ✗ C. Neither conclusion (I) nor (II) follows
- ✗ D. Only conclusion (II) follows

Q.90 Seven people F, G, H, L, M, O and Q are sitting in a row facing north. Only Q sits to the left of H. Only four people sit between Q and G. Only F sits between L and M, and L is not an immediate neighbor of G. How many people sit between O and H?

Ans
- ✗ A. Three
- ✗ B. One
- ✓ C. Four
- ✗ D. Two

Q.91 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 etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

78 - 88
32 - 42

Ans
- ✓ A. 110 - 120
- ✗ B. 45 - 56
- ✗ C. 98 - 88
- ✗ D. 90 - 110

Q.92 WTQT is related to VSPS in a certain way based on the English alphabetical order. In the same way, ZWTW is related to YVSV. To which of the following is OLIL related, following the same logic?

Ans
- ✗ A. NJGK
- ✓ B. NKHK
- ✗ C. NLGO
- ✗ D. NKGK

Q.93 Six boxes E,F,G,H,I and B are kept one over the other but not necessarily in the same order. Only three boxes are kept above F. Only one box is kept between H and F. Only three boxes are kept between H and I. I is kept at some place above F. B is kept immediately below I. E is kept at one of the places below G. How many boxes are kept between G and H?

Ans
- ✔ A. Four
- ✘ B. Two
- ✘ C. Three
- ✘ D. One

Q.94 If 1 is added to each odd digit and 1 is subtracted from each even digit in the number 7254136, how many digits will appear more than once in the new number thus formed?

Ans
- ✔ A. None
- ✘ B. Three
- ✘ C. Two
- ✘ D. One

Q.95 In a certain code language, 'GLOW' is coded as '3187' and 'WOLF' is coded as '1273'. What is the code for 'G' in the given code language?

Ans
- ✘ A. 3
- ✔ B. 8
- ✘ C. 1
- ✘ D. 7

Q.96 LL 22 is related to JH 6 in a certain way. In the same way, CR 20 is related to AN 4. To which of the following is GN 14 related, following the same logic?

Ans
- ✘ A. EI −2
- ✘ B. FI −4
- ✘ C. FJ −4
- ✔ D. EJ −2

Q.97 If 3 is added to each odd digit and 2 is subtracted from each even digit in the number 8254316, then what will be the sum of the first digit from the left and the second digit from the right in the new number thus formed?

Ans
- ✘ A. 6
- ✔ B. 10
- ✘ C. 4
- ✘ D. 0

Q.98 Seven people X, Y, Z, A, B, C and D are sitting around a circular table facing towards the centre of the table. D sits third to the right of Y. B is sitting immediately between X and C. Z sits second to the right of X. What is the position of A with respect to Z?

Ans
- ✔ A. Immediate right
- ✘ B. Second to the right
- ✘ C. Immediate left
- ✘ D. Second to the left

Q.99 In a certain code language,
A : B means 'A is the father of B',
A @ B means 'A is the mother of B',
A ? B means 'A is the wife of B' and
A + B means 'A is the daughter of B'.

How is C related to R if 'C ? O : V @ E + R'?

Ans
- ✔ A. Wife's mother
- ✘ B. Wife's father
- ✘ C. Wife's brother
- ✘ D. Wife's sister

Q.100 Read the given statement(s) 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 statement(s).

**Statements:**
Some leaves are trees.
All chairs are trees.

**Conclusions:**
(I) Some leaves are chairs.
(II) All trees are chairs.

Ans
- ✔ A. Neither conclusion (I) nor (II) follows
- ✘ B. Only conclusion (II) follows
- ✘ C. Both conclusions (I) and (II) follow
- ✘ D. Only conclusion (I) follows

"