



## रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

सी ई एन ०६/२०२४ - एन टी पी सी पूर्व स्नातक स्तर - CEN - 06/2024 - NTPC Under Graduate Level



|           |                               |
|-----------|-------------------------------|
| Test Date | 01/09/2025                    |
| Test Time | 12:45 PM - 2:15 PM            |
| Subject   | RRB NTPC Under Graduate 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 : General Awareness

Q.1 In which year was the Second Pay Commission appointed in India?

Ans ☒ 1. 1957

☐ 2. 1965

☐ 3. 1962

☐ 4. 1950

Q.2 Climatic maps are primarily based on data related to:

Ans ☒ 1. temperature and rainfall

☐ 2. population growth

☐ 3. soil moisture content only

☐ 4. industrial zones

Q.3 Which country retained the top spot for the second consecutive year in the Henley Passport Index released in January 2025?

Ans ☒ 1. Singapore

☐ 2. Japan

☐ 3. Germany

☐ 4. South Korea

Q.4 On which river is the Bhakra Nangal Dam constructed?

Ans ☐ 1. Ravi

☐ 2. Yamuna

☒ 3. Satluj

☐ 4. Ganga

Q.5 Gandhiji gave a call for a satyagraha against the Rowlatt Act in which of the following years?

Ans ☒ 1. 1919

☐ 2. 1922

☐ 3. 1930

☐ 4. 1915

**Q.6** The Ministry of Environment, Forest and Climate Change (MoEFCC), in collaboration with which of the following universities, organised the symposium 'India 2047: Building a Climate-Resilient Future' at Bharat Mandapam, New Delhi, in March 2025?

- Ans**
- ☐ 1. University College London
  - ☒ 2. Harvard University
  - ☐ 3. Massachusetts Institute of Technology
  - ☐ 4. University of Toronto

**Q.7** In 2025, the United Nations called for peace talks between which two countries after missile exchanges intensified their long-standing conflict?

- Ans**
- ☐ 1. Russia and Ukraine
  - ☐ 2. North Korea and South Korea
  - ☒ 3. Israel and Iran
  - ☐ 4. India and Sri Lanka

**Q.8** Which key is used to rename a file or folder in Windows?

- Ans**
- ☐ 1. F5
  - ☐ 2. ESC + N
  - ☐ 3. CTRL + N
  - ☒ 4. F2

**Q.9** Which eminent Kathak dancer from Gujarat was awarded the Padma Vibhushan in 2025 for her outstanding contributions to Indian classical dance?

- Ans**
- ☐ 1. Sonal Mansingh
  - ☐ 2. Rukmini Devi
  - ☐ 3. Mallika Sarabhai
  - ☒ 4. Kumudini Lakhia

**Q.10** According to the 2025 report by McKinsey & Company and BoF, by what percentage is India's ultra-high-net-worth individual (UHNWI) population expected to grow by 2028?

- Ans**
- ☐ 1. 30%
  - ☒ 2. 50%
  - ☐ 3. 40%
  - ☐ 4. 60%

**Q.11** Who among the following Mughal rulers is considered to be the last powerful Mughal ruler?

- Ans**
- ☐ 1. Dara Shukoh
  - ☐ 2. Bahadur Shah Zafar
  - ☐ 3. Shah Jahan
  - ☒ 4. Aurangzeb

**Q.12** Which Article was inserted into the Constitution by the 103<sup>rd</sup> Amendment Act to provide for EWS reservation?

- Ans**
- ☐ 1. Article 14A and 16A
  - ☒ 2. Article 15(6) and 16(6)
  - ☐ 3. Article 21C and 22A
  - ☐ 4. Article 18A and 19A

**Q.13** Which of the following Directive Principles of State Policy is provided under Article 40 of the Indian Constitution?

- Ans**
- ☐ 1. Promotion of cottage industries in rural areas
  - ☐ 2. Provision for a uniform civil code
  - ☐ 3. Organisation of agriculture and animal husbandry
  - ☒ 4. Organisation of village panchayats

**Q.14** Vembanad Lake, India's longest lake facing severe degradation, is located in which state?

- Ans**
- ☐ 1. Assam, home to the Brahmaputra river basin
  - ☒ 2. Kerala, known for its backwaters and lagoons
  - ☐ 3. West Bengal, near the Sundarban mangrove forests
  - ☐ 4. Odisha, famous for Chilika Lake ecosystem

**Q.15** Which of the following elements has the largest atomic radius?

- Ans**
- ☐ 1. K
  - ☒ 2. Rb
  - ☐ 3. Li
  - ☐ 4. Na

**Q.16** Which Indian ministry has put in the public domain the Draft National Code Against Age Fraud in Sports (NCAAFS) 2025 for inviting comments and suggestions from the general public and stakeholders, as part of the consultation process in March 2025?

- Ans**
- ☐ 1. Ministry of Law and Justice
  - ☐ 2. Ministry of Social Justice and Empowerment
  - ☒ 3. Ministry of Youth Affairs and Sports
  - ☐ 4. Ministry of Health and Family Welfare

**Q.17** In which of the following years was the National Telecom Policy (NTP), that envisaged the objective of one public call office (PCO) for every 500 persons in the urban areas, formulated?

- Ans**
- ☐ 1. 1992
  - ☐ 2. 1999
  - ☒ 3. 1994
  - ☐ 4. 1997

**Q.18** The Faraizi Movement was a religious reform movement of the 19<sup>th</sup> century in \_\_\_\_\_.

- Ans**
- ☒ 1. Bengal
  - ☐ 2. Rajasthan
  - ☐ 3. Gujarat
  - ☐ 4. Maharashtra

**Q.19** In which year was India's first operational six-lane expressway, the approximately 95 km long Mumbai–Pune Expressway, inaugurated?

- Ans**
- ☒ 1. 2002
  - ☐ 2. 2000
  - ☐ 3. 2004
  - ☐ 4. 1998

**Q.20 Which of the following elements belongs to the s-block of the periodic table?**

- Ans**
- ☐ 1. Iron
  - ☐ 2. Chlorine
  - ☒ 3. Calcium
  - ☐ 4. Uranium

**Q.21 Which Article of the Indian Constitution mentions the Council of Ministers to aid and advise the President?**

- Ans**
- ☒ 1. Article 74
  - ☐ 2. Article 80
  - ☐ 3. Article 85
  - ☐ 4. Article 76

**Q.22 Which river rises in the Gangotri glacier near Gaumukh (3,900 m) in the Uttarkashi district?**

- Ans**
- ☐ 1. Chenab river
  - ☐ 2. Yamuna river
  - ☒ 3. Bhagirathi river
  - ☐ 4. Son river

**Q.23 What was a major challenge faced by the Indian manufacturing sector after liberalisation?**

- Ans**
- ☒ 1. Increased competition from cheaper imports
  - ☐ 2. High industrial licensing fees
  - ☐ 3. Shortage of raw materials
  - ☐ 4. Decline in capital inflow

**Q.24 What is the function of the Alt + F4 shortcut?**

- Ans**
- ☐ 1. Opens a new window
  - ☒ 2. Closes the current window or application
  - ☐ 3. Refreshes the browser
  - ☐ 4. Saves the document

**Q.25 Which of the following is an example of plasticity in plants?**

- Ans**
- ☐ 1. Phototropism
  - ☒ 2. Heterophylly
  - ☐ 3. Vernalisation
  - ☐ 4. Photoperiodism

**Q.26 The Centre of Excellence on 'Classical and Quantum Communications for 6G' inaugurated at IIT-Madras in July 2024, functions under which umbrella programme?**

- Ans**
- ☐ 1. SAMARQAND
  - ☐ 2. IN-SPACe
  - ☒ 3. Telecom Centres of Excellence (TCoE)-India
  - ☐ 4. MeitY FutureNET

**Q.27 Which of the following Articles deals with the Right against Exploitation?**

- Ans**
- ☐ 1. Articles 31–32
  - ☐ 2. Articles 25–28
  - ☐ 3. Articles 29–30
  - ☒ 4. Articles 23–24

**Q.28** In 2025, which State/UT's police launched the 'Shishtachar' squad to keep a check on sexual harassment of women in public places?

- Ans**
- ☒ 1. Delhi
  - ☐ 2. Puducherry
  - ☐ 3. Haryana
  - ☐ 4. Maharashtra

**Q.29** Unemployment reflects the inability of the economy to provide jobs to those willing to work. Which organisation conducts the Periodic Labour Force Survey (PLFS) in India?

- Ans**
- ☐ 1. Ministry of Labour and Employment
  - ☐ 2. RBI (Reserve Bank of India)
  - ☐ 3. NITI Aayog
  - ☒ 4. NSO (National Statistical Office)

**Q.30** Buddha Purnima was celebrated on which date in 2025?

- Ans**
- ☒ 1. 12 May
  - ☐ 2. 23 March
  - ☐ 3. 10 April
  - ☐ 4. 19 February

**Q.31** Which of the following statements is correct about Article 323B of the Constitution?

- Ans**
- ☒ 1. It permits tribunals for matters like taxation, land reforms, and labour disputes.
  - ☐ 2. It allows the creation of tribunals only for the armed forces.
  - ☐ 3. It restricts tribunals to environmental cases only.
  - ☐ 4. It empowers states to establish tribunals for local governance.

**Q.32** Which foreign trade relation was badly affected when Byzantium learned silk production in the 6<sup>th</sup> century CE?

- Ans**
- ☐ 1. Indo-Roman trade
  - ☒ 2. Indo-Byzantine trade
  - ☐ 3. Indo-Persian trade
  - ☐ 4. Indo-Arab trade

**Q.33** What is one key benefit of India's Digital Public Infrastructure (DPI) model shared at the BRICS meeting in 2025?

- Ans**
- ☒ 1. Reducing financial exclusion
  - ☐ 2. Exporting digital gadgets
  - ☐ 3. Promoting space exploration
  - ☐ 4. Increasing tax rates

**Q.34** Who among the following is a famous Indian classical dancer known for popularising Bharatanatyam globally?

- Ans**
- ☐ 1. Hema Malini
  - ☐ 2. Mallika Sarabhai
  - ☐ 3. Sonal Mansingh
  - ☒ 4. Rukmini Devi Arundale

**Q.35** Which of the following influential poets was renowned for employing ultabasi (also written as ulatbansi), a distinctive poetic style characterised by paradoxes and enigmas?

- Ans**
- ☒ 1. Kabir
  - ☐ 2. Agyeya
  - ☐ 3. Bal Krishna Sharma Naveen
  - ☐ 4. Ramdhari Singh Dinkar

**Q.36** Which of the following subjects falls under the Concurrent List?

- Ans**
- ☐ 1. Banking
  - ☒ 2. Criminal law
  - ☐ 3. Defence
  - ☐ 4. Police

**Q.37** Who won Best Supporting Actress for her role in Baby Reindeer at the BAFTA TV Awards held at London's Royal Festival Hall in May 2025?

- Ans**
- ☒ 1. Jessica Gunning
  - ☐ 2. Olivia Colman
  - ☐ 3. Helena Bonham Carter
  - ☐ 4. Lesley Manville

**Q.38** Which of the following is a reason for the uneven distribution of rainfall in India during the southwest monsoon?

- Ans**
- ☒ 1. Mountain ranges influence wind direction and intensity.
  - ☐ 2. Monsoon winds blow equally everywhere.
  - ☐ 3. The Himalayas stop all monsoon rainfall.
  - ☐ 4. Southern states alone receive all rainfall.

**Q.39** Which of the following is a classification of economic activities undertaken by the Central Statistical Organisation (CSO) in India?

- Ans**
- ☐ 1. Classification Code of India-2000
  - ☒ 2. National Industrial Classification-1998
  - ☐ 3. Industrial Classification Structure-2005
  - ☐ 4. National Code for Agriculture and Industrial Classification-2009

**Q.40** In 2025, which organisation has developed a new nanoporous multilayered polymeric membrane for high-pressure seawater desalination?

- Ans**
- ☐ 1. Council of Scientific and Industrial Research
  - ☐ 2. Indian Institute of Science
  - ☒ 3. Defence Research & Development Organisation
  - ☐ 4. Bharat Heavy Electricals Limited

#### Section : Mathematics

**Q.1** A number when increased by 100% gives 2760. The number is:

- Ans**
- ☐ 1. 2760
  - ☐ 2. 4140
  - ☐ 3. 690
  - ☒ 4. 1380

Q.2 Pipe P can fill  $\frac{2}{9}$  part of a tank in 20 hours, and pipe Q can fill  $\frac{5}{9}$  part of the same tank in 10 hours.

Both P and Q were kept open for 3 hours, then both were closed. Pipe R alone was then opened and it emptied the water in the tank in 8 hours. Pipes P, Q and R together can fill the empty tank in:

- Ans
- ☐ 1. 41 hours
  - ☐ 2. 29 hours
  - ☒ 3. 24 hours
  - ☐ 4. 42 hours

Q.3 M and N started a business. M invested ₹31,000 more than N for 2 months, while N invested for 7 months. M's share is ₹139 more than that of N, out of a total profit of ₹5,977. Find the capital contributed by M.

- Ans
- ☐ 1. ₹42,529
  - ☒ 2. ₹42,625
  - ☐ 3. ₹42,561
  - ☐ 4. ₹42,441

Q.4 Find the simple interest (in ₹) on ₹1,200 at an interest rate of 4% per month for 6 months.

- Ans
- ☐ 1. ₹48
  - ☒ 2. ₹24
  - ☐ 3. ₹44
  - ☐ 4. ₹288

Q.5 The cost of 9 pens and 14 pencils is ₹95. If the cost of a pen decreases by ₹3 and the cost of a pencil increases by ₹7, then the cost of 9 pens and 3 pencils is ₹78. What is the original cost of 17 pens and 13 pencils?

- Ans
- ☐ 1. ₹162
  - ☒ 2. ₹166
  - ☐ 3. ₹169
  - ☐ 4. ₹161

Q.6 Simplify the following.

$$3\left(\left(\frac{4}{3}\right)x^2 - 21x + 12\right) - 4(x^2 + 4x - 14)$$

- Ans
- ☐ 1.  $79x - 92$
  - ☐ 2.  $79x + 92$
  - ☒ 3.  $-79x + 92$
  - ☐ 4.  $-79x - 92$

Q.7 The sides of a right-angled triangle are x cm, (x + 2) cm and (x + 4) cm, respectively. If the area of the triangle is  $24 \text{ cm}^2$ , find its perimeter (in cm).

- Ans
- ☐ 1. 28
  - ☒ 2. 24
  - ☐ 3. 26
  - ☐ 4. 30

Q.8 ABCD is a trapezium in which  $BC \parallel AD$  and  $AC = CD$ . If  $\angle ABC = 70^\circ$  and  $\angle BAC = 62^\circ$ , then what is the measure of  $\angle ACD$  (in degree)?

- Ans
- ☐ 1. 92
  - ☐ 2. 75
  - ☐ 3. 82
  - ☒ 4. 84

Q.9

The value of  $3^2 + \sqrt{4^2} - 5\sqrt{81} - 4$  is

Ans

- ☐ 1. -42
- ☐ 2. -32
- ☐ 3. -41
- ☒ 4. -36

Q.10 The marks scored by 10 students are given below.

20, 20, 20, 19, 14, 18, 20, 12, 11, 17

The mode of the data is:

Ans

- ☒ 1. 20
- ☐ 2. 14
- ☐ 3. 19
- ☐ 4. 18

Q.11 The selling price of 40 books is equal to the cost price of 30 books. Find the loss or gain percentage.

Ans

- ☒ 1. 25% loss
- ☐ 2.  $\frac{100}{10}\%$  loss
- ☐ 3.  $\frac{100}{10}\%$  gain
- ☐ 4. 25% gain

Q.12 Find the simple interest (in ₹) on ₹4,000 at 6.75% per annum rate of interest deposited on 24 February 2024 and withdrawn on 25 April 2024.

Ans

- ☐ 1. ₹46
- ☐ 2. ₹43
- ☐ 3. ₹44
- ☒ 4. ₹45

Q.13 Given that  $95^{0.53} = x$ ,  $95^{0.83} = y$  and  $x^z = y^8$ , then the value of  $z$  is close to:

Ans

- ☒ 1. 12.53
- ☐ 2. 13.4
- ☐ 3. 15.92
- ☐ 4. 11.75

Q.14 The population of a district is 342000, out of which 228000 are males. 44% of the population is literate. If 59% males are literate, then what percentage of females are literate?

Ans

- ☐ 1. 12%
- ☐ 2. 17%
- ☒ 3. 14%
- ☐ 4. 16%

Q.15 Train A leaves station M at 7:55 a.m. and reaches station N at 2:55 p.m. on the same day. Train B leaves station N at 9:55 a.m. and reaches station M at 2:55 p.m. on the same day. Find the time when Trains A and B meet.

Ans

- ☐ 1. 1:49 a.m.
- ☐ 2. 4:08 p.m.
- ☐ 3. 4:48 p.m.
- ☒ 4. 12:00 p.m.



Q.16 If 79% of first number is equal to four-ninths of second number, what is the ratio of first number to the second number?

- Ans
- ☒ 1. 400 : 711
  - ☐ 2. 396 : 709
  - ☐ 3. 404 : 716
  - ☐ 4. 399 : 706

Q.17 On the eve of new year, a branded washing machine is sold for ₹34,340 after allowing 15% discount. What is its marked price (in ₹)?

- Ans
- ☐ 1. 44,500
  - ☒ 2. 40,400
  - ☐ 3. 45,400
  - ☐ 4. 44,000

Q.18 The sum of two numbers is 52 and their LCM is 651. The two numbers are:

- Ans
- ☐ 1. 36, 16
  - ☐ 2. 24, 28
  - ☐ 3. 29, 23
  - ☒ 4. 31, 21

Q.19 The value of  $\frac{5}{4} + \left( \frac{1}{1 + \frac{5}{7}} \right) - \frac{3}{5}$  is

- Ans
- ☐ 1.  $\frac{36}{23}$
  - ☐ 2.  $\frac{43}{34}$
  - ☐ 3.  $\frac{46}{33}$
  - ☒ 4.  $\frac{37}{30}$

Q.20 Find the surface area of a sphere whose diameter is equal to 64 cm.

- Ans
- ☒ 1.  $4096\pi \text{ cm}^2$
  - ☐ 2.  $4171\pi \text{ cm}^2$
  - ☐ 3.  $3994\pi \text{ cm}^2$
  - ☐ 4.  $4044\pi \text{ cm}^2$

Q.21 Simplify the following:

$$\frac{1 + \cot^2 \theta}{1 + \tan^2 \theta}$$

- Ans
- ☒ 1.  $\operatorname{cosec}^2 \theta - 1$
  - ☐ 2.  $\cot^2 \theta - 1$
  - ☐ 3.  $\sec^2 \theta - 1$
  - ☐ 4.  $\tan^2 \theta - 1$

Q.22 A tradesman marks his goods at 24% above the cost price. He allows his customer a discount of 13% on the marked price. Find his profit percentage.

- Ans
- ☐ 1. 5.76%
  - ☐ 2. 8.55%
  - ☒ 3. 7.88%
  - ☐ 4. 6.48%

**Q.23** A man goes to Indore from Bhopal at a speed of 9 km/hr and returns to Bhopal at speed of 18 km/hr, through the same route. What is his average speed (in km/hr) of the entire journey?

- Ans**
- ☐ 1. 15
  - ☒ 2. 12
  - ☐ 3. 9
  - ☐ 4. 6

**Q.24** If 2 times a mother's present age is 25 years more than 5 times her daughter's present age, and 3 times the daughter's present age is 9 years less than the mother's present age, then what is the difference (in years) between the ages of the mother and the daughter?

- Ans**
- ☐ 1. 20
  - ☐ 2. 28
  - ☐ 3. 25
  - ☒ 4. 23

**Q.25** Which of the following numbers divides 488309139?

- Ans**
- ☒ 1. 9
  - ☐ 2. 11
  - ☐ 3. 10
  - ☐ 4. 13

**Q.26** The LCM of the numbers 2.6 and 0.084 is:

- Ans**
- ☐ 1. 546
  - ☐ 2. 0.546
  - ☐ 3. 5.46
  - ☒ 4. 54.6

**Q.27** Amit, Neha, and Kiran invest ₹1,220, ₹1,370, and ₹1,110, respectively, to start a business. If the profit at the end of the year is ₹1,160, then what is the share of Kiran in the profit?

- Ans**
- ☐ 1. ₹345
  - ☐ 2. ₹347
  - ☐ 3. ₹351
  - ☒ 4. ₹348

**Q.28** The average runs scored by a batsman in 23 matches is 43. In the next 10 matches, the batsman scored an average of 13 runs. Find his average runs scored (rounded off to two decimal places) in all the 33 matches.

- Ans**
- ☐ 1. 32.91
  - ☐ 2. 34.91
  - ☐ 3. 35.91
  - ☒ 4. 33.91

Q.29 Pallavi bought a toy for ₹670, decorated it at a cost of ₹10 and sold the toy for ₹290.  
Find the loss or profit percentage.

Ans

☐ 1.  $\frac{975}{17}\%$  profit

☐ 2. 975 % loss

☐ 3.  $\frac{985}{17}\%$  profit

☒ 4.  $\frac{975}{17}\%$  loss

Q.30 Pipe A can fill a tank in 16 hours, pipe B can fill the same tank in 21 hours and pipe C can fill the same tank in 11 hours. The time taken by them to fill the same tank if they operate together is::

Ans

☐ 1.  $5\frac{724}{743}$  hours

☐ 2.  $1\frac{724}{743}$  hours

☒ 3.  $4\frac{724}{743}$  hours

☐ 4.  $2\frac{724}{743}$  hours

Section : General Intelligence and Reasoning

Q.1 In a certain code language,  
A + B means 'A is the husband of B',  
A – B means 'A is the mother of B',  
A x B means 'A is the daughter of B' and  
A ÷ B means 'A is the brother of B'.

How is G related to P if 'G ÷ I x L + N – P'?

Ans

☐ 1. Mother's father

☐ 2. Father's brother

☒ 3. Brother

☐ 4. Mother's brother

Q.2 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 cloth are handkerchief.

All towel are handkerchief.

**Conclusion:**

(I): Some cloth are towel.

(II): All handkerchief are towel.

Ans

☐ 1. Both conclusions (I) and (II) follow.

☒ 2. Neither conclusion (I) nor (II) follows.

☐ 3. Only conclusion (II) follows.

☐ 4. Only conclusion (I) follows.

**Q.3** Refer to the following number and symbol series and answer the question that follows.  
Counting to be done from left to right only.

(Left) 2 4 & # \$ 4 7 6 6 & 1 \* \$ 2 © 9 4 8 € \$ \* 4 (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. 2
  - ☐ 2. 1
  - ☐ 3. 4
  - ☐ 4. 3

**Q.4** 126 people are standing in a row facing north. Mr. Into is 11<sup>th</sup> from the right end while Mr. Toni is 12<sup>th</sup> from the left end. How many people are there between Mr. Into and Mr. Toni?

- Ans**
- ☐ 1. 104
  - ☐ 2. 101
  - ☐ 3. 102
  - ☒ 4. 103

**Q.5** Ram starts his journey from Point A. He then drives 4 km towards the west, turns left and drives 7 km. He then turns right and drives 5 km, again turns left and drives for 3 km. After that he turns left and drives for 12 km. He takes a final left turn, drives for 10 km and stops. 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**
- ☐ 1. 5 km towards the east
  - ☐ 2. 3 km towards the north
  - ☒ 3. 3 km towards the west
  - ☐ 4. 8 km towards the south

**Q.6** What will come in the place of the question mark (?) in the following equation, '÷' and 'x' are interchanged and '-' and '+' are interchanged?  
 $13 - 5 \div 5 \times 5 + 13 \times 13 - 9 \times 3 \div 3 - 108 = ?$

- Ans**
- ☐ 1. 90
  - ☐ 2. 129
  - ☐ 3. 110
  - ☒ 4. 134

**Q.7** In a certain code language, 'VAST' is coded as '7892' and 'SAVE' is coded as '8629'. What is the code for 'E' in the given code language?

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

**Q.8** 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. LNH
  - ☒ 2. KNZ
  - ☐ 3. OQK
  - ☐ 4. TVP

Q.9 In a certain code language, 'WAVE' is coded as '3257' and 'VOLT' is coded as '1346'. What is the code for 'V' in the given code language?

- Ans
- ☐ 1. 1
  - ☐ 2. 7
  - ☒ 3. 3
  - ☐ 4. 5

Q.10 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion(s) logically follow/s from the given statements.

**Statements:**

Some wigs are roses.  
All roses are bugs.

**Conclusions (I):** Some wigs are bugs.

**Conclusions (II):** All bugs are roses.

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

Q.11 Seven boxes A, B, C, D, K, L and O are kept one over the other but not necessarily in the same order. No box is kept above B. Only three boxes are kept between B and C. Only one box is kept between D and L. L is kept immediately above C. Only four boxes are kept between D and K. A is kept at some place above O. Which box is kept second below A?

- Ans
- ☒ 1. C
  - ☐ 2. D
  - ☐ 3. O
  - ☐ 4. B

Q.12 If + means  $\times$ ,  $\times$  means  $\div$  and  $\div$  means +, then what will come in place of the question mark (?) in the following equation?

$$20 \div 55 \times 5 + 7 - 4 = ?$$

- Ans
- ☒ 1. 3
  - ☐ 2. 13
  - ☐ 3. 8
  - ☐ 4. 17

Q.13 UP 16 is related to TK 4 in a certain way. In the same way, YT 23 is related to XO 11. To which of the following is KG 13 related, following the same logic?

- Ans
- ☐ 1. IB 3
  - ☐ 2. JA 3
  - ☐ 3. IA 1
  - ☒ 4. JB 1

Q.14 In the following triad, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.

WISE - EWSI - WEIS  
PLUS - SPUL - PSLU

- Ans
- ☐ 1. PAWN - NPWA - PANW
  - ☐ 2. PAGE - EPAG - AGEP
  - ☐ 3. DOSE - ODSE - EOSD
  - ☒ 4. BORN - NBRO - BNOR

**Q.15** Seven people A, B, C, D, E, F and G are sitting in a row, facing north. No one sits to the left of G. Only four people sit between G and A. Only three people sit to the right of E. D sits to the immediate left of F. B is not an immediate neighbour of E. How many people sit to the right of C?

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

**Q.16** Farooq ranked 28th from the top and 35th from the bottom in his class. How many students are there in his class?

- Ans**
- ☒ 1. 62
  - ☐ 2. 60
  - ☐ 3. 63
  - ☐ 4. 61

**Q.17** Qadir starts from Point A and drives 1 km towards East. He then takes a left turn, drives 3 km, turns left and drives 8 km. He then takes a left turn and drives 7 km. He takes a final left turn, drives 7 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° turns only unless specified.)

- Ans**
- ☐ 1. 5 km to the North
  - ☒ 2. 4 km to the North
  - ☐ 3. 7 km to the West
  - ☐ 4. 6 km to the West

**Q.18** If 1 is subtracted from each odd digit of the number 95423671, then what will be the sum of the digits that are repeated more than once in the new number formed?

- Ans**
- ☐ 1. 10
  - ☐ 2. 8
  - ☐ 3. 6
  - ☒ 4. 12

**Q.19** Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

LXU -2 OTT 4 RPS -8 ? XHQ -32

- Ans**
- ☐ 1. FHT 15
  - ☐ 2. VXL 19
  - ☒ 3. ULR 16
  - ☐ 4. PHR 13

**Q.20** What should come in place of the question mark (?) in the given series?

1 2 4 7 11 ?

- Ans**
- ☐ 1. 15
  - ☐ 2. 17
  - ☐ 3. 18
  - ☒ 4. 16

**Q.21** Each of the digits in the number 3875269 is arranged in the 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**
- ☐ 1. Three
  - ☐ 2. None
  - ☐ 3. Two
  - ☒ 4. One

**Q.22** 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. IEA
  - ☐ 2. XTQ
  - ☐ 3. RNK
  - ☐ 4. FBY

**Q.23** What should come in place of the question mark (?) in the given series based on the English alphabetical order?

QVO SRN ? WJL YFK

- Ans**
- ☐ 1. NHG
  - ☐ 2. VML
  - ☐ 3. MKL
  - ☒ 4. UNM

**Q.24** This question is based on the five, three-digit numbers given below.  
(Left) 284 517 639 741 425 (Right)

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

If all the numbers are arranged in descending order, the position(s) of how many numbers will remain unchanged as compared to that in the original number?

- Ans**
- ☒ 1. None
  - ☐ 2. Two
  - ☐ 3. Four
  - ☐ 4. Three

**Q.25** In the following triads, each group of letters is related to the subsequent one following a certain logic. Select from the given options, the one which follows the same logic.

LOCK – OLCK – LCKO

ACNE – CANE – ANEC

- Ans**
- ☐ 1. FROG – RFOG – ROGF
  - ☐ 2. OILS – IOLS – SILO
  - ☐ 3. HUNT – HNUT – TNUH
  - ☒ 4. BEAM – EBAM – BAME

**Q.26** What should come in place of the question mark (?) in the given series?  
57, 63, 71, 81, 93, ?

- Ans**
- ☐ 1. 170
  - ☐ 2. 105
  - ☐ 3. 154
  - ☒ 4. 107

**Q.27** In the following number-pairs, the second number is obtained by applying certain mathematical operation(s) to the first number. Select the number-pair in which the numbers are related in the same way as are the numbers of the following pairs.  
(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.)  
17, 153  
31, 279

- Ans** ☒ 1. 43, 387  
☐ 2. 35, 326  
☐ 3. 22, 216  
☐ 4. 14, 122

**Q.28** What should come in place of the question mark (?) in the given series?

12 21 38 79 160 ?

- Ans** ☐ 1. 291  
☐ 2. 279  
☒ 3. 297  
☐ 4. 219

**Q.29** 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. LG-JN  
☐ 2. JE-HL  
☐ 3. OJ-MQ  
☒ 4. GB-EJ

**Q.30** L, M, N, O, Q, R and S are sitting around a circular table, facing the centre of the table. M sits fourth to the left of O. N is an immediate neighbour of O and R. S sits to the immediate left of R. Q is not an immediate neighbour of M. Who sits third to the right of L?

- Ans** ☐ 1. S  
☒ 2. R  
☐ 3. O  
☐ 4. M