



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	14/08/2025
Test Time	9:00 AM - 10:30 AM
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	Rabindranath Tagore's "Geetanjali," which was awarded the Nobel Prize in 1913, is best classified as which form of writing?
Ans	<div><div><input checked="" type="checkbox"/></div>1. A collection of short stories</div> <div><div><input checked="" type="checkbox"/></div>2. A play</div> <div><div><input checked="" type="checkbox"/></div>3. A collection of poetry</div> <div><div><input checked="" type="checkbox"/></div>4. A novel</div>
Q.2	India participated in the 9 <sup>th</sup> BRICS Industry Ministers' Meeting held on 21 May 2025, under the Chairmanship of which country?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Russia</div> <div><div><input checked="" type="checkbox"/></div>2. South Africa</div> <div><div><input checked="" type="checkbox"/></div>3. Brazil</div> <div><div><input checked="" type="checkbox"/></div>4. UAE</div>
Q.3	Which institution played a key role in influencing the structural reforms of the industrial sector in India post 1991?
Ans	<div><div><input checked="" type="checkbox"/></div>1. NABARD</div> <div><div><input checked="" type="checkbox"/></div>2. WTO</div> <div><div><input checked="" type="checkbox"/></div>3. IMF and World Bank</div> <div><div><input checked="" type="checkbox"/></div>4. RBI</div>
Q.4	The Acheulian cultural tradition is primarily identified with which types of advanced and symmetrical stone tools?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Blades and borers</div> <div><div><input checked="" type="checkbox"/></div>2. Microliths and scrapers</div> <div><div><input checked="" type="checkbox"/></div>3. Chisels and adzes</div> <div><div><input checked="" type="checkbox"/></div>4. Cleavers and hand-axes</div>
Q.5	Which international agreement was signed to control emissions of ozone-depleting substances?
Ans	<div><div><input checked="" type="checkbox"/></div>1. Basel Convention</div> <div><div><input checked="" type="checkbox"/></div>2. Montreal Protocol</div> <div><div><input checked="" type="checkbox"/></div>3. Earth Summit</div> <div><div><input checked="" type="checkbox"/></div>4. Kyoto Protocol</div>

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# Test Prime

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Q.6	Which of the following schemes aims to skill rural youth who are poor and provide them with jobs having regular monthly wages or above the minimum wages?
Ans	<div> <div>✓</div> <div>1. Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY)</div> </div> <div> <div>✗</div> <div>2. Garib Kalyan Rozgar Yojana (GKRY)</div> </div> <div> <div>✗</div> <div>3. Prime Minister Employment Generation Programme (PMEGP)</div> </div> <div> <div>✗</div> <div>4. Pradhan Mantri Kaushal Vikas Yojana (PMKVY)</div> </div>
Q.7	The Human Genome Project, launched in 1990, had the goal of determining the sequence of how many billion base pairs that make up human DNA?
Ans	<div> <div>✓</div> <div>1. 3.0 billion</div> </div> <div> <div>✗</div> <div>2. 5.2 billion</div> </div> <div> <div>✗</div> <div>3. 4.3 billion</div> </div> <div> <div>✗</div> <div>4. 2.1 billion</div> </div>
Q.8	India's foreign trade structure changed significantly under British rule. During the colonial period, what kind of goods did India primarily export?
Ans	<div> <div>✗</div> <div>1. Capital goods</div> </div> <div> <div>✗</div> <div>2. Manufactured goods</div> </div> <div> <div>✗</div> <div>3. Automobiles</div> </div> <div> <div>✓</div> <div>4. Raw materials</div> </div>
Q.9	What name did Dobereiner give to his groups of three similar elements?
Ans	<div> <div>✗</div> <div>1. Triangles</div> </div> <div> <div>✓</div> <div>2. Triads</div> </div> <div> <div>✗</div> <div>3. Triplets</div> </div> <div> <div>✗</div> <div>4. Triodes</div> </div>
Q.10	What does 'dyarchy' mean in the context of the 1919 Act?
Ans	<div> <div>✗</div> <div>1. Power to the judiciary and legislature</div> </div> <div> <div>✗</div> <div>2. Dual monarchy system</div> </div> <div> <div>✓</div> <div>3. Dual control in provinces</div> </div> <div> <div>✗</div> <div>4. Centralised governance</div> </div>
Q.11	What is the primary function of the Control Unit within a CPU?
Ans	<div> <div>✗</div> <div>1. Performing arithmetic calculations</div> </div> <div> <div>✗</div> <div>2. Managing external device connections</div> </div> <div> <div>✓</div> <div>3. Directing the flow of instructions and data</div> </div> <div> <div>✗</div> <div>4. Storing frequently used data</div> </div>
Q.12	Which of the following minerals is known for its insulating properties and is used in electrical industries?
Ans	<div> <div>✗</div> <div>1. Bauxite</div> </div> <div> <div>✗</div> <div>2. Limestone</div> </div> <div> <div>✓</div> <div>3. Mica</div> </div> <div> <div>✗</div> <div>4. Iron ore</div> </div>
Q.13	Which of the following is an example of social legislation introduced by the British during the colonial period in India?
Ans	<div> <div>✗</div> <div>1. The Rowlatt Act</div> </div> <div> <div>✗</div> <div>2. The Vernacular Press Act</div> </div> <div> <div>✗</div> <div>3. The Indian Councils Act</div> </div> <div> <div>✓</div> <div>4. The Widow Remarriage Act</div> </div>

Q.14	The M23 rebel group, which has recently advanced in eastern regions such as Goma and Bukavu, is active in which of the following countries?
Ans	<div><div><input type="checkbox"/></div><div>1. South Sudan</div></div> <div><div><input type="checkbox"/></div><div>2. Republic of Congo</div></div> <div><div><input checked="" type="checkbox"/></div><div>3. Democratic Republic of Congo</div></div> <div><div><input type="checkbox"/></div><div>4. Central African Republic</div></div>
Q.15	Which article of the Indian Constitution relates RTI to the fundamental right to freedom of speech and expression?
Ans	<div><div><input type="checkbox"/></div><div>1. Article 15(1)(b)</div></div> <div><div><input type="checkbox"/></div><div>2. Article 21</div></div> <div><div><input type="checkbox"/></div><div>3. Article 32</div></div> <div><div><input checked="" type="checkbox"/></div><div>4. Article 19(1)(a)</div></div>
Q.16	Which of the following exercises was conducted by the Indian Air Force (IAF) in April 2025 to simulate attacks on mountain and ground targets using advanced fighter jets like Rafale and Su-30MKI?
Ans	<div><div><input type="checkbox"/></div><div>1. Vayu Shakti</div></div> <div><div><input type="checkbox"/></div><div>2. Meghdoot</div></div> <div><div><input checked="" type="checkbox"/></div><div>3. Aakraman</div></div> <div><div><input type="checkbox"/></div><div>4. Gagan Shakti</div></div>
Q.17	Which of the following Articles of the Indian Constitution is commonly cited as forming the constitutional basis for Judicial Review?
Ans	<div><div><input type="checkbox"/></div><div>1. Article 30</div></div> <div><div><input type="checkbox"/></div><div>2. Article 19</div></div> <div><div><input type="checkbox"/></div><div>3. Article 370</div></div> <div><div><input checked="" type="checkbox"/></div><div>4. Article 13</div></div>
Q.18	Which Indian institute's scientists unlocked the mystery of a cellular 'messenger' that may help treat Alzheimer's and diabetes?
Ans	<div><div><input type="checkbox"/></div><div>1. AIIMS New Delhi</div></div> <div><div><input type="checkbox"/></div><div>2. IIT Delhi</div></div> <div><div><input checked="" type="checkbox"/></div><div>3. IISc Bengaluru</div></div> <div><div><input type="checkbox"/></div><div>4. IIT Kharagpur</div></div>
Q.19	What is a special feature of the new 'Agni-Prime' missile tested by India in March 2025?
Ans	<div><div><input type="checkbox"/></div><div>1. Hits many targets</div></div> <div><div><input checked="" type="checkbox"/></div><div>2. Canister launch and new materials</div></div> <div><div><input type="checkbox"/></div><div>3. Launched from submarines</div></div> <div><div><input type="checkbox"/></div><div>4. Cryogenic engine</div></div>
Q.20	Joseph Francois Dupleix was the governor who led the forces of which of the following European powers?
Ans	<div><div><input type="checkbox"/></div><div>1. British</div></div> <div><div><input type="checkbox"/></div><div>2. Portuguese</div></div> <div><div><input type="checkbox"/></div><div>3. Dutch</div></div> <div><div><input checked="" type="checkbox"/></div><div>4. French</div></div>

Q.21 What can be the shape of the trajectory of a charged particle moving in a uniform magnetic field?

- Ans
- ✓ 1. Helical path
  - ✗ 2. Elliptical path
  - ✗ 3. Parabolic path
  - ✗ 4. Hyperbolic path

Q.22 What is the main feature of the 106<sup>th</sup> Constitutional Amendment Act, 2023?

- Ans
- ✗ 1. Set up of the Lokpal
  - ✓ 2. Reservation of one-third seats for women in legislatures
  - ✗ 3. Provision of legal status to Right to Property
  - ✗ 4. Abolishment of titles

Q.23 The Western Ghats and the northeastern hills of India are primarily covered with which type of natural vegetation?

- Ans
- ✓ 1. Tropical Evergreen Forests
  - ✗ 2. Tropical Deciduous Forests
  - ✗ 3. Tropical Thorn Forests
  - ✗ 4. Montane Forests

Q.24 Which nation became the fourth nation to successfully dock two satellites in space in January 2025?

- Ans
- ✗ 1. China
  - ✗ 2. The US
  - ✗ 3. Russia
  - ✓ 4. India

Q.25 Major Malla Rama Gopal Naidu of the Maratha Light Infantry of the Indian Army was awarded with which of the following honours in May 25?

- Ans
- ✗ 1. Shaurya Chakra (Posthumous)
  - ✓ 2. Kirti Chakra
  - ✗ 3. Kirti Chakra (Posthumous)
  - ✗ 4. Shaurya Chakra

Q.26 Which of the following is NOT a major cause of the people's revolts before 1857?

- Ans
- ✗ 1. Exploitation of rural society by corrupt officers.
  - ✗ 2. Destruction of indigenous industries.
  - ✓ 3. Conversion of people to Christianity.
  - ✗ 4. Colonial land revenue settlements.

Q.27 At the 2025 Cannes Film Festival, who was honoured with the Honorary Palme d'Or recognising lifetime achievement?

- Ans
- ✗ 1. Leonardo DiCaprio
  - ✓ 2. Robert De Niro
  - ✗ 3. Quentin Tarantino
  - ✗ 4. Denzel Washington

Q.28 Which of the following colonial-era buildings in Chennai serves as the headquarters of the Greater Chennai Corporation?

- Ans
- ✗ 1. High Court
  - ✓ 2. Ripon Building
  - ✗ 3. Fort St. George
  - ✗ 4. Government Museum



Q.29 Who among the following launched the Nationwide Mass Drug Administration Campaign for Lymphatic Filariasis?

- Ans
- ☐ 1. Chirag Paswan
  - ☐ 2. Amit Shah
  - ☐ 3. Shivraj Singh Chauhan
  - ☒ 4. Jagat Prakash Nadda

Q.30 Under the Fifth Schedule, which primary authority is granted to the Governor of a State regarding Scheduled Areas?

- Ans
- ☐ 1. Power to dissolve the State Legislative Assembly
  - ☒ 2. Power to regulate land, forests and social customs in Scheduled Areas
  - ☐ 3. Power to amend the Constitution regarding Schedule amendments
  - ☐ 4. Authority to appoint Members of Parliament from Scheduled Areas

Q.31 Who among the following is the founder of the Pala dynasty?

- Ans
- ☐ 1. Bhoja
  - ☐ 2. Dharmapala
  - ☒ 3. Gopala
  - ☐ 4. Dhruva

Q.32 In which of the following Indian regions is an alpine climate with snowy winters and cool summers predominant?

- Ans
- ☐ 1. Thar Desert
  - ☐ 2. Northern Plains
  - ☒ 3. Himalayan Mountains
  - ☐ 4. Western Ghats

Q.33 Which of the following is not a factor that affects ocean currents?

- Ans
- ☒ 1. Soil type
  - ☐ 2. Temperature differences
  - ☐ 3. Earth's rotation
  - ☐ 4. Wind

Q.34 In which of the following cities of India was Infosys established in 1994?

- Ans
- ☐ 1. Hyderabad
  - ☐ 2. Mumbai
  - ☒ 3. Bengaluru
  - ☐ 4. Kolkata

Q.35 In February 2025, which major Zambian river was polluted by an acid spill from a Chinese-operated copper mine?

- Ans
- ☐ 1. Chambeshi River
  - ☒ 2. Kafue River
  - ☐ 3. Luangwa River
  - ☐ 4. Zambezi River

Q.36 Which physical factor most influences the formation of dispersed settlements in hilly and forested regions of India?

- Ans
- ☐ 1. Industrial development
  - ☐ 2. Language diversity
  - ☐ 3. Railway networks
  - ☒ 4. Altitude and terrain

Q.37 What is required when creating a file or folder?

- Ans
- ☐ 1. A password
  - ☐ 2. A desktop shortcut
  - ☐ 3. An email ID
  - ☒ 4. A name

Q.38 Which author released the memoir 'Mother Mary Comes to Me' in 2025, reflecting on her relationship with her late mother?

- Ans
- ☒ 1. Arundhati Roy
  - ☐ 2. Jhumpa Lahiri
  - ☐ 3. Kiran Desai
  - ☐ 4. Anita Desai

Q.39 Which Indian para-athlete was honoured with the Major Dhyan Chand Khel Ratna Award in 2025 for his achievements in high jump?

- Ans
- ☐ 1. Mariyappan Thangavelu
  - ☐ 2. Sharad Kumar
  - ☐ 3. Varun Singh Bhati
  - ☒ 4. Praveen Kumar

Q.40 In which state did the DRDO successfully conduct the first flight test of its indigenous Stratospheric Airship Platform (SAP) on 3 May 2025?

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

Section : Mathematics

Q.1 An article marked at ₹500 is sold for ₹425. What is the percentage discount?

- Ans
- ☐ 1. 13%
  - ☒ 2. 15%
  - ☐ 3. 14%
  - ☐ 4. 12%

Q.2 Pipe A can fill a tank in 15 hours, pipe B can fill the same tank in 27 hours and pipe C can fill the same tank in 10 hours. The time taken by them to fill the same tank if they operate together is::

- Ans
- ☐ 1.  $8\frac{10}{11}$  hours
  - ☐ 2.  $9\frac{10}{11}$  hours
  - ☒ 3.  $4\frac{10}{11}$  hours
  - ☐ 4.  $12\frac{10}{11}$  hours

**Q.3** A vendor claims to sell wheat at a loss of 20%, but he cheats by using weights that are 35% less than the stated weight. What is his actual profit percentage (round off to two decimal places)?

- Ans**
- ☒ 1. 21.33%
  - ☒ 2. 24.74%
  - ☒ 3. 23.08%
  - ☒ 4. 24.72%

**Q.4** Find the area of a triangle whose sides are 9 cm, 12 cm, and 15 cm.

- Ans**
- ☒ 1. 60 cm<sup>2</sup>
  - ☒ 2. 54 cm<sup>2</sup>
  - ☒ 3. 42 cm<sup>2</sup>
  - ☒ 4. 48 cm<sup>2</sup>

**Q.5** Simplify:  $2\left(\left(\frac{6}{2}\right)x^2 - 22x + 15\right) - 6(x^2 + 5x - 18)$ .

- Ans**
- ☒ 1.  $-74x - 138$
  - ☒ 2.  $74x + 138$
  - ☒ 3.  $74x - 138$
  - ☒ 4.  $-74x + 138$

**Q.6** 37 light bulbs were purchased for ₹37, and 19 light bulbs broke in transit. The trader sold the remaining light bulbs at ₹3.90 each. Find his profit.

- Ans**
- ☒ 1. ₹23.60
  - ☒ 2. ₹33.20
  - ☒ 3. ₹33.90
  - ☒ 4. ₹39.80

**Q.7** Three times the present age of P exceeds the present age of Q by 23 years. After 7 years, six times Q's age will be 30 years less than six times P's age at that time. What is the present age (in years) of Q?

- Ans**
- ☒ 1. 8
  - ☒ 2. 3
  - ☒ 3. 11
  - ☒ 4. 4

**Q.8** In  $\triangle ABC$ ,  $BD \perp AC$  at D and  $\angle DBC = 44^\circ$ . E is a point on BC such that  $\angle CAE = 23^\circ$ . What is the measure of  $\angle AEB$ ?

- Ans**
- ☒ 1.  $56^\circ$
  - ☒ 2.  $69^\circ$
  - ☒ 3.  $77^\circ$
  - ☒ 4.  $64^\circ$

**Q.9** The average price of three items of furniture is ₹5,300. If their prices are in the ratio 3 : 5 : 7, the price of the cheapest item (in ₹) is:

- Ans**
- ☒ 1. 5,300
  - ☒ 2. 3,180
  - ☒ 3. 1,060
  - ☒ 4. 7,420



Q.10 The number 541096943 is divisible by which of the following?

- Ans
- ☒ 1. 97
  - ☐ 2. 87
  - ☐ 3. 103
  - ☐ 4. 107

Q.11 Find the simple interest (in ₹) on ₹1,200 at an interest rate of 4% per month for 12 months.

- Ans
- ☐ 1. ₹68
  - ☐ 2. ₹96
  - ☒ 3. ₹48
  - ☐ 4. ₹576

Q.12 The number of prime numbers lying between 393 and 401, both included, is:

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

Q.13 The product of two consecutive natural numbers is 462. The greater of the two numbers is:

- Ans
- ☐ 1. 21
  - ☒ 2. 22
  - ☐ 3. 23
  - ☐ 4. 24

Q.14 An article is marked at ₹1,500 and sold for ₹1,200. Find the percentage discount.

- Ans
- ☒ 1. 20%
  - ☐ 2. 30%
  - ☐ 3. 25%
  - ☐ 4. 15%

Q.15 Find the simple interest (in ₹) on ₹4,000 at 7.5% per annum rate of interest deposited on 8 February 2024 and withdrawn on 9 April 2024.

- Ans
- ☒ 1. 50
  - ☐ 2. 51
  - ☐ 3. 48
  - ☐ 4. 49

Q.16 By how much is 65% of 65 greater than  $\frac{2}{5}$  of 25?

- Ans
- ☐ 1. 29.25
  - ☐ 2. 30.25
  - ☐ 3. 26.25
  - ☒ 4. 32.25

Q.17	4 men can complete a piece of work in 10 days, while 3 women can do it in 16 days. In how many days can 6 women and 5 men complete this work?
Ans	<div> <div>✗</div> <div>1. 5 days</div> </div> <div> <div>✗</div> <div>2. 3 days</div> </div> <div> <div>✓</div> <div>3. 4 days</div> </div> <div> <div>✗</div> <div>4. 6 days</div> </div>
Q.18	Zeeshan travels 612 km at 68 km/hr, the next 312 km at 39 km/hr and the next 620 km at 62 km/hr. What is his average speed (in km/hr) for the whole journey? (Round off your answer to two decimal places)
Ans	<div> <div>✗</div> <div>1. 51.18</div> </div> <div> <div>✓</div> <div>2. 57.19</div> </div> <div> <div>✗</div> <div>3. 66.13</div> </div> <div> <div>✗</div> <div>4. 58.22</div> </div>
Q.19	Which of the following numbers divides 718754023?
Ans	<div> <div>✗</div> <div>1. 21</div> </div> <div> <div>✗</div> <div>2. 3</div> </div> <div> <div>✗</div> <div>3. 18</div> </div> <div> <div>✓</div> <div>4. 13</div> </div>
Q.20	A, B and C invested a sum in the ratio of 8 : 36 : 76, respectively. If they earned a total profit of ₹3,030 at the end of the year, what is the difference between the shares of B and C?
Ans	<div> <div>✗</div> <div>1. ₹1,051</div> </div> <div> <div>✓</div> <div>2. ₹1,010</div> </div> <div> <div>✗</div> <div>3. ₹1,046</div> </div> <div> <div>✗</div> <div>4. ₹993</div> </div>
Q.21	₹30,600 was divided among A, B and C such that 8 times the share of A = 4 times the share of B = 3 times the share of C. Find the share of A.
Ans	<div> <div>✓</div> <div>1. ₹5,400</div> </div> <div> <div>✗</div> <div>2. ₹5,252</div> </div> <div> <div>✗</div> <div>3. ₹5,594</div> </div> <div> <div>✗</div> <div>4. ₹5,377</div> </div>
Q.22	If the radius of the base of a right circular cylinder is decreased by 18% and its height is increased by 141%, then what is the percentage increase (closest integer) in its volume?
Ans	<div> <div>✗</div> <div>1. 74%</div> </div> <div> <div>✗</div> <div>2. 92%</div> </div> <div> <div>✗</div> <div>3. 43%</div> </div> <div> <div>✓</div> <div>4. 62%</div> </div>
Q.23	A man walks to a viewpoint and returns to the starting point by his car maintaining a constant speed and thus, takes a total time of 4 hours 45 minutes. He would have gained 2 hours by driving both ways. How long would it have taken for him to walk both ways with the same walking speed?
Ans	<div> <div>✗</div> <div>1. 6 hours 30 minutes</div> </div> <div> <div>✗</div> <div>2. 7 hours 15 minutes</div> </div> <div> <div>✗</div> <div>3. 5 hours 45 minutes</div> </div> <div> <div>✓</div> <div>4. 6 hours 45 minutes</div> </div>

Q.24 The average runs scored by a batsman in 23 matches is 43. In the next 10 matches, the batsman scored an average of 14 runs. Find his average runs scored (rounded off to two decimal places) in all the 33 matches.

- Ans
- ☐ 1. 35.21
  - ☒ 2. 34.21
  - ☐ 3. 33.21
  - ☐ 4. 36.21

Q.25 Find the value of  $[135 \div \{25 + 5 \times (7 - 3)\}]$ .

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

Q.26 Aditya is standing on a light house of 150 m height and watching two boats on either side with angles of depression of  $30^\circ$  and  $60^\circ$ , respectively. Find the distance between the two boats.

- Ans
- ☐ 1. 300 m
  - ☐ 2.  $150\sqrt{3}$  m
  - ☐ 3. 250 m
  - ☒ 4.  $200\sqrt{3}$  m

Q.27 Salil's salary was first reduced by 25% and subsequently raised by 12%. What percentage was his final salary lower than his initial salary?

- Ans
- ☐ 1. 3%
  - ☒ 2. 16%
  - ☐ 3. 12%
  - ☐ 4. 25%

Q.28 The LCM of the numbers 4.7 and 0.04 is:

- Ans
- ☐ 1. 94
  - ☐ 2. 0.94
  - ☒ 3. 9.4
  - ☐ 4. 0.094

Q.29 If the third proportional of 16 and 40 be x, then what is the value of x?

- Ans
- ☐ 1. 102
  - ☐ 2. 99
  - ☐ 3. 101
  - ☒ 4. 100

Q.30 The value of  $\sqrt{(1.0201)}$  is \_\_\_\_\_.

- Ans
- ☐ 1. 1.02
  - ☐ 2. 10.1
  - ☐ 3. 101
  - ☒ 4. 1.01

Q.1 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 < 9 6 9 2 % \ \$ \ + 2 & \$ 3 2 ^ 9 9 (Right)

How many such numbers are there that are immediately preceded by a symbol and immediately followed by another number?

- Ans
- ✓ 1. Three
  - ✗ 2. One
  - ✗ 3. Two
  - ✗ 4. Four

Q.2 If + means −, − means ×, × means ÷ and ÷ means +, then what will come in place of the question mark (?) in the following equation?

$75 \times 5 + 11 - 2 \div 18 = ?$

- Ans
- ✗ 1. 21
  - ✗ 2. 17
  - ✗ 3. 26
  - ✓ 4. 11

Q.3 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. KE-MF
  - ✗ 2. EY-GZ
  - ✗ 3. YS-AT
  - ✓ 4. PJ-RI

Q.4 A is the brother of S. S is the daughter of L. L is married to K. K is the daughter of D. D is the father of P. P is the sister of R. R is married to N. How is D related to S?

- Ans
- ✗ 1. Father's brother
  - ✗ 2. Father
  - ✓ 3. Mother's father
  - ✗ 4. Father's father

Q.5 Each of the digits in the number 5341289 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
- ✓ 1. Two
  - ✗ 2. One
  - ✗ 3. None
  - ✗ 4. Three

Q.6 What should come in place of the question mark (?) in the given series?

108 122 139 159 182 208 ?

- Ans
- ✗ 1. 222
  - ✓ 2. 237
  - ✗ 3. 229
  - ✗ 4. 248

Q.7 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.)

(19, 31, 55)  
(14, 26, 50)

- Ans
- ✓ 1. (48, 60, 84)
  - ✗ 2. (18, 32, 54)
  - ✗ 3. (15, 30, 45)
  - ✗ 4. (13, 26, 43)

Q.8 If ‘+’ means ‘subtraction’, ‘-’ means ‘multiplication’, ‘x’ means ‘division’ and ‘÷’ means ‘addition’, then what will come in place of the question mark (?) in the following equation?

$64 \times 8 + 6 - 6 \div 33 = ?$

- Ans
- ✗ 1. 20
  - ✓ 2. 5
  - ✗ 3. 10
  - ✗ 4. 15

Q.9 What should come in place of the question mark (?) in the following series?

2 6 12 20 ?

- Ans
- ✗ 1. 40
  - ✗ 2. 35
  - ✓ 3. 30
  - ✗ 4. 25

Q.10 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

WRM RMH MHC HCX ?

- Ans
- ✗ 1. CXD
  - ✗ 2. CDX
  - ✓ 3. CXS
  - ✗ 4. CSX

Q.11 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.

LIVE – ELVI – LEIV  
HANG – GHNA – HGAN

- Ans
- ✗ 1. PORT – TPOR – ORTP
  - ✗ 2. REDS – ERDS – SEDR
  - ✓ 3. DUSK – KDSU – DKUS
  - ✗ 4. PAIN – NPIA – PANI

Q.12 Select the pair that follows the same pattern as that followed by the two pairs given below. Both pairs follow the same pattern.

ERT : FSV  
RDX : SEZ

- Ans
- ✗ 1. DUC : EVD
  - ✓ 2. UHS : VIU
  - ✗ 3. EOC : FPF
  - ✗ 4. IOP : JPS

Q.13 HDLI is related to FBJG in a certain way based on the English alphabetical order. In the same way, KGOL is related to IEMJ. To which of the given options is NJRO related, following the same logic?

- Ans
- ✓ 1. LHPM
  - ✗ 2. LHMP
  - ✗ 3. HLPM
  - ✗ 4. HLMP

Q.14 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. SXR
  - ✗ 2. LQK
  - ✓ 3. NSL
  - ✗ 4. QVP

Q.15 Gautam starts from Point A and drives 9 km towards south. He then takes a right turn, drives 4 km, turns right and drives 11 km. He then takes a right turn and drives 6 km. He takes a final right turn, drives 2 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. 2 km to east
  - ✓ 2. 2 km to west
  - ✗ 3. 3 km to west
  - ✗ 4. 3 km to east

Q.16 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

ZY 43 VU 40 RQ 35 NM 28 ?

- Ans
- ✓ 1. JI 19
  - ✗ 2. JI 18
  - ✗ 3. KJ 18
  - ✗ 4. KJ 19

Q.17 Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. G is kept immediately above F. C is kept immediately above A. Only E is kept above B. Only two boxes are kept above G. C is not kept at the third position from the bottom. How many boxes are kept above B?

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



Q.18 Read the given statement(s) and conclusions carefully. Assuming that the information given in the statement(s) 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:**  
All buckets are mugs.  
All mugs are cans.

**Conclusions:**  
(I) Some cans are mugs.  
(II) All buckets are cans.

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

Q.19 This question is based on the five, three-digit numbers given below.  
(Left) 629 189 586 643 746 (Right)

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

If 2 is added to the first digit of every number, in how many numbers thus formed will the first digit be exactly divisible by the second digit?

- Ans
1. Three
2. None
3. Two
4. One

Q.20 In a certain code language, 'BORN' is coded as '3257' and 'RIPE' is coded as '6142'. What is the code for 'R' in the given code language?

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

Q.21 Seven people, G, H, I, J, K, L and S, are sitting around a circular table facing the centre of the table. I sits third to the left of J. Only two people sit between J and G. Only three people sit between I and L. K sits to the immediate left of H. How many people sit between K and S when counted from the right of S?

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

Q.22 Pranay ranked 14<sup>th</sup> from the top and 44<sup>th</sup> from the bottom in his class. How many students are there in his class?

- Ans
1. 55
2. 56
3. 58
4. 57

Q.23 In a certain code language, 'CAME' is coded as '6781' and 'RACE' is coded as '5618'. What is the code for 'R' in the given code language?

- Ans
1. 5
2. 8
3. 1
4. 6

Q.24	Each of the digits in the number 7314685 is arranged in ascending order from left to right. What will be the sum of the digits that are third from the left and third from the right in the new number thus formed?
Ans	<div><div><div>✖</div><div>1. 9</div></div><div><div>✖</div><div>2. 7</div></div><div><div>✖</div><div>3. 6</div></div><div><div>✔</div><div>4. 10</div></div></div>
Q.25	<p>Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.</p> <p><b>Statements:</b> All triangles are compasses. All squares are compasses.</p> <p><b>Conclusions:</b> (I) Some triangles are squares. (II) Some compasses are squares.</p>
Ans	<div><div><div>✖</div><div>1. Neither conclusion (I) nor (II) follows.</div></div><div><div>✔</div><div>2. Only conclusion (II) follows.</div></div><div><div>✖</div><div>3. Both conclusions (I) and (II) follow.</div></div><div><div>✖</div><div>4. Only conclusion (I) follows.</div></div></div>
Q.26	Seven boxes U, V, W, X, E, F and G are kept one over the other but not necessarily in the same order. U is kept immediately above V. X is kept immediately above W. Only E is kept above G. Only two boxes are kept above U. X is not kept at the third position from the bottom. How many boxes are kept between F and E?
Ans	<div><div><div>✖</div><div>1. One</div></div><div><div>✖</div><div>2. Four</div></div><div><div>✔</div><div>3. Three</div></div><div><div>✖</div><div>4. Two</div></div></div>
Q.27	Seven people, I, J, K, L, P, Q and R, are sitting in a row, facing north. Only two people sit to the left of K. Only three people sit between K and L. Only one person sits between L and J. P sits to the immediate left of I. Q is not an immediate neighbour of L. How many people sit to the right of R?
Ans	<div><div><div>✔</div><div>1. One</div></div><div><div>✖</div><div>2. Four</div></div><div><div>✖</div><div>3. Three</div></div><div><div>✖</div><div>4. Two</div></div></div>
Q.28	Divesh starts from point D and runs 3 km towards south. He then takes a right turn and runs 4 km. He then takes a left turn and runs 3 km. He takes another left turn and runs 4 km. He takes a final right turn and runs 1 km to reach point E. How far (shortest distance) and towards which direction should he run in order to reach point D again? (All turns are 90-degree turns only unless otherwise specified.)
Ans	<div><div><div>✔</div><div>1. 7 km north</div></div><div><div>✖</div><div>2. 6 km north</div></div><div><div>✖</div><div>3. 3 km north</div></div><div><div>✖</div><div>4. 4 km north</div></div></div>

**Q.29** 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. BEKR
  - ☐ 2. CGLS
  - ☐ 3. LPUB
  - ☐ 4. QUZG

**Q.30** What should come in place of the question mark (?) in the given series?  
91, 102, 119, 142, 171, ?

- Ans**
- ☐ 1. 204
  - ☐ 2. 214
  - ☐ 3. 215
  - ☒ 4. 206

