



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	02/09/2025
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	Which of the following is NOT a part of chemical weathering?
Ans	<input checked="" type="checkbox"/> 1. Frost Action
	<input type="checkbox"/> 2. Hydration
	<input type="checkbox"/> 3. Oxidation
	<input type="checkbox"/> 4. Carbonation
Q.2	In which of the following years was the Aajeevika - Deendayal Antyodaya Yojna-National Rural Livelihoods Mission (DAY-NRLM) launched by the Ministry of Rural Development (MoRD), Government of India?
Ans	<input checked="" type="checkbox"/> 1. 2011
	<input type="checkbox"/> 2. 2016
	<input type="checkbox"/> 3. 2007
	<input type="checkbox"/> 4. 2014
Q.3	What was the ultimate promise made by Bhagirath Majhi to the Santhals if they followed his teachings?
Ans	<input checked="" type="checkbox"/> 1. Restoration of tribal kingdoms
	<input type="checkbox"/> 2. Access to modern education and jobs
	<input type="checkbox"/> 3. Complete independence from British rule
	<input type="checkbox"/> 4. Land restoration and divine protection
Q.4	What is the purpose of the High Endurance Autonomous Underwater Vehicle (HEAUV) developed by DRDO's Naval Science and Technological Laboratory (NSTL)?
Ans	<input checked="" type="checkbox"/> 1. Underwater surveillance
	<input type="checkbox"/> 2. Surface-to-air missile deployment
	<input type="checkbox"/> 3. Submarine crew training
	<input type="checkbox"/> 4. Deep-sea oil exploration
Q.5	Colonial economic policies created a skewed distribution of income and wealth in Indian society. Which of the following is a key indicator of income inequality in colonial India?
Ans	<input checked="" type="checkbox"/> 1. Unequal land ownership patterns
	<input type="checkbox"/> 2. High literacy rate among workers
	<input type="checkbox"/> 3. Uniform wages across sectors
	<input type="checkbox"/> 4. Equitable distribution of irrigation

Q.6	What is the total number of inhabited islands in the Andaman and Nicobar Islands, as of May 2025?	
Ans	<input checked="" type="checkbox"/> 1. Less than 14	
	<input checked="" type="checkbox"/> 2. 22	
	<input checked="" type="checkbox"/> 3. 18	
	<input checked="" type="checkbox"/> 4. More than 30	
Q.7	Which of the following dynasties was NOT involved in the struggle for the control of the prosperous city of Kannauj in northern India?	
Ans	<input checked="" type="checkbox"/> 1. Pratihara	
	<input checked="" type="checkbox"/> 2. Pallava	
	<input checked="" type="checkbox"/> 3. Pala	
	<input checked="" type="checkbox"/> 4. Rashtrakuta	
Q.8	Optical fibres work on the principle of _____.	
Ans	<input checked="" type="checkbox"/> 1. reflection only	
	<input checked="" type="checkbox"/> 2. refraction only	
	<input checked="" type="checkbox"/> 3. total internal reflection	
	<input checked="" type="checkbox"/> 4. total internal refraction	
Q.9	What is the main function of sclerenchyma, a plant tissue composed of dead cells with extremely thick lignified walls?	
Ans	<input checked="" type="checkbox"/> 1. To help hold the flower parts together in a plant	
	<input checked="" type="checkbox"/> 2. To provide mechanical support and strength to the plant	
	<input checked="" type="checkbox"/> 3. To store food and other materials such as resins, mucilage and latex in the plant	
	<input checked="" type="checkbox"/> 4. To transport water, nutrients and sugars throughout the plant	
Q.10	Where was the headquarters of the Home Rule League founded by Bal Gangadhar Tilak located?	
Ans	<input checked="" type="checkbox"/> 1. Ajmer	
	<input checked="" type="checkbox"/> 2. Patna	
	<input checked="" type="checkbox"/> 3. Surat	
	<input checked="" type="checkbox"/> 4. Pune	
Q.11	Which of the following terms describe a change in the DNA sequence resulting in changes in the genotype and the phenotype of an organism?	
Ans	<input checked="" type="checkbox"/> 1. Segregation	
	<input checked="" type="checkbox"/> 2. Mutation	
	<input checked="" type="checkbox"/> 3. Dominance	
	<input checked="" type="checkbox"/> 4. Transcription	
Q.12	Who is the author of the book 'The History and Stars of the World's Greatest Sporting Event: From Athens 1896 to Paris 2024', launched at New Delhi World Book Fair, 2025?	
Ans	<input checked="" type="checkbox"/> 1. Amit Bose	
	<input checked="" type="checkbox"/> 2. Vijayan Bala	
	<input checked="" type="checkbox"/> 3. Digvijay Singh Deo	
	<input checked="" type="checkbox"/> 4. Abhinav Bindra	

Q.13	The foreign exchange crisis forced India to seek external support. Which institution provided India a loan during the 1991 crisis?	
Ans	<input checked="" type="checkbox"/> 1. ADB	
	<input checked="" type="checkbox"/> 2. World Bank	
	<input checked="" type="checkbox"/> 3. WTO	
	<input checked="" type="checkbox"/> 4. IMF	
Q.14	In 2025, which State Government launched the 'RISE' app for digital monitoring of child vaccinations, enhancing training for health workers to improve immunisation coverage?	
Ans	<input checked="" type="checkbox"/> 1. Uttarakhand	
	<input checked="" type="checkbox"/> 2. Bihar	
	<input checked="" type="checkbox"/> 3. Uttar Pradesh	
	<input checked="" type="checkbox"/> 4. Jharkhand	
Q.15	Which of the following is the primary objective of the Right to Information (RTI) Act, 2005?	
Ans	<input checked="" type="checkbox"/> 1. To promote transparency and accountability in government functioning	
	<input checked="" type="checkbox"/> 2. To regulate foreign investment in India	
	<input checked="" type="checkbox"/> 3. To control corruption in the judiciary	
	<input checked="" type="checkbox"/> 4. To ensure reservations for backwards classes	
Q.16	Rohilla chief, Najib-ud-Daula, played a key role in the ____.	
Ans	<input checked="" type="checkbox"/> 1. Third Battle of Panipat	
	<input checked="" type="checkbox"/> 2. Mysore wars	
	<input checked="" type="checkbox"/> 3. Anglo-Maratha wars	
	<input checked="" type="checkbox"/> 4. Decline of Bengal	
Q.17	The partition of Bengal officially came into force in the year ____.	
Ans	<input checked="" type="checkbox"/> 1. 1905	
	<input checked="" type="checkbox"/> 2. 1948	
	<input checked="" type="checkbox"/> 3. 1919	
	<input checked="" type="checkbox"/> 4. 1912	
Q.18	Who was honoured with the Rammohan Mission Purashkar 2025 for emphasising ISRO's role in national security?	
Ans	<input checked="" type="checkbox"/> 1. G Madhavan Nair	
	<input checked="" type="checkbox"/> 2. V Narayanan	
	<input checked="" type="checkbox"/> 3. K Sivan	
	<input checked="" type="checkbox"/> 4. S Somanath	
Q.19	Vijender Gupta, who became the Speaker of the Delhi Assembly in 2025, is the MLA from which of the following constituencies?	
Ans	<input checked="" type="checkbox"/> 1. Karol Bagh	
	<input checked="" type="checkbox"/> 2. Patparganj	
	<input checked="" type="checkbox"/> 3. Greater Kailash	
	<input checked="" type="checkbox"/> 4. Rohini	

Q.20	Which of the following statements is correct regarding the Tenth Schedule of the Indian Constitution?	
Ans	<input checked="" type="checkbox"/> 1. It deals with the allocation of seats in the Rajya Sabha.	
	<input checked="" type="checkbox"/> 2. It defines the distribution of powers between the Union and States.	
	<input checked="" type="checkbox"/> 3. It contains provisions regarding Official Languages.	
	<input checked="" type="checkbox"/> 4. It provides for disqualification of members on grounds of defection.	
Q.21	Which statement best describes a key feature of a Public-Private Partnership (PPP)?	
Ans	<input checked="" type="checkbox"/> 1. Government and private entities share responsibilities and risks efficiently.	
	<input checked="" type="checkbox"/> 2. The public partner fully finances a project, while the private partner has no risk.	
	<input checked="" type="checkbox"/> 3. PPPs are only used for purely social (non-commercial) projects.	
	<input checked="" type="checkbox"/> 4. Only public sector entities can participate in PPPs.	
Q.22	Where was the 8 th Edition of the Indian Ocean Conference in February 2025 held?	
Ans	<input checked="" type="checkbox"/> 1. Muscat, Oman	
	<input checked="" type="checkbox"/> 2. Cairo, Egypt	
	<input checked="" type="checkbox"/> 3. Manila, Philippines	
	<input checked="" type="checkbox"/> 4. Perth, Australia	
Q.23	Which type of land is most suitable for agriculture in India?	
Ans	<input checked="" type="checkbox"/> 1. Mountainous land	
	<input checked="" type="checkbox"/> 2. Rocky and arid land	
	<input checked="" type="checkbox"/> 3. Forest land	
	<input checked="" type="checkbox"/> 4. Level alluvial land	
Q.24	What is the primary function of the Taskbar in Windows?	
Ans	<input checked="" type="checkbox"/> 1. To shut down the computer	
	<input checked="" type="checkbox"/> 2. To install new software	
	<input checked="" type="checkbox"/> 3. To display the system BIOS	
	<input checked="" type="checkbox"/> 4. To show open programs and allow quick access to them	
Q.25	In May 2025, which Indian Chief Minister announced naming a medical college after Ahilyabai Holkar in 2025?	
Ans	<input checked="" type="checkbox"/> 1. Yogi Adityanath	
	<input checked="" type="checkbox"/> 2. Uddhav Thackeray	
	<input checked="" type="checkbox"/> 3. Bhupesh Baghel	
	<input checked="" type="checkbox"/> 4. Ashok Gehlot	
Q.26	Which Windows feature helps to quickly locate a specific file in a large folder?	
Ans	<input checked="" type="checkbox"/> 1. Search box in File Explorer	
	<input checked="" type="checkbox"/> 2. Right-click → Delete	
	<input checked="" type="checkbox"/> 3. Task Manager	
	<input checked="" type="checkbox"/> 4. Control Panel	
Q.27	Who among the following is the appointing authority of District Judges in India?	
Ans	<input checked="" type="checkbox"/> 1. Prime Minister	
	<input checked="" type="checkbox"/> 2. President of India	
	<input checked="" type="checkbox"/> 3. Governor of the state	
	<input checked="" type="checkbox"/> 4. Chief Justice of India	

Q.28	Which major initiative was highlighted by the New Delhi government to mark its first 100 days in office, as detailed in the report titled 'Kaam Karne Wali Sarkar: 100 Din Seva Ke'?	
Ans	<input checked="" type="checkbox"/> 1. Launch of a new metro line	
	<input checked="" type="checkbox"/> 2. Introduction of a universal basic income	
	<input checked="" type="checkbox"/> 3. Inauguration of a new legislative building	
	<input checked="" type="checkbox"/> 4. Presentation of a report card highlighting achievements	
Q.29	Which of the following is NOT a mode of acquiring Indian citizenship under the Citizenship Act, 1955?	
Ans	<input checked="" type="checkbox"/> 1. By descent	
	<input checked="" type="checkbox"/> 2. By adoption	
	<input checked="" type="checkbox"/> 3. By registration	
	<input checked="" type="checkbox"/> 4. By birth	
Q.30	Which of the following languages was granted classical status by the Government of India in 2005, following Tamil?	
Ans	<input checked="" type="checkbox"/> 1. Telugu	
	<input checked="" type="checkbox"/> 2. Kannada	
	<input checked="" type="checkbox"/> 3. Sanskrit	
	<input checked="" type="checkbox"/> 4. Malayalam	
Q.31	Which of the following best reflects Judicial Activism?	
Ans	<input checked="" type="checkbox"/> 1. Declaring elections null and void	
	<input checked="" type="checkbox"/> 2. Passive interpretation of laws	
	<input checked="" type="checkbox"/> 3. Voluntary interference by the judiciary in public interest	
	<input checked="" type="checkbox"/> 4. Only enforcing existing laws strictly	
Q.32	Which of the following organisations inaugurated the Quantum Technology Research Centre (QTRC) at Metcalfe House, Delhi, in May 2025?	
Ans	<input checked="" type="checkbox"/> 1. Indian Space Research Organisation (ISRO)	
	<input checked="" type="checkbox"/> 2. Defence Research and Development Organisation (DRDO)	
	<input checked="" type="checkbox"/> 3. Indian Institute of Science (IISc)	
	<input checked="" type="checkbox"/> 4. Bhabha Atomic Research Centre (BARC)	
Q.33	The Tendulkar Committee revised India's methodology for measuring poverty. As per the Tendulkar Committee, which criterion is considered to measure poverty?	
Ans	<input checked="" type="checkbox"/> 1. Calorie intake	
	<input checked="" type="checkbox"/> 2. Employment status	
	<input checked="" type="checkbox"/> 3. Consumption expenditure	
	<input checked="" type="checkbox"/> 4. Income	
Q.34	Biogas plants are most commonly used in which sector in rural India?	
Ans	<input checked="" type="checkbox"/> 1. Industrial use	
	<input checked="" type="checkbox"/> 2. Household cooking and lighting	
	<input checked="" type="checkbox"/> 3. Transportation	
	<input checked="" type="checkbox"/> 4. Iron smelting	

Q.35	Which state notified the Tsarap Chu Conservation Reserve under the Wildlife (Protection) Act, 1972 to protect high-altitude biodiversity in 2025?	
Ans	<input checked="" type="checkbox"/> 1. Sikkim for Himalayan red panda conservation purposes	
	<input checked="" type="checkbox"/> 2. Himachal Pradesh to secure snow leopard habitats	
	<input checked="" type="checkbox"/> 3. Uttarakhand to protect alpine medicinal plant species	
	<input checked="" type="checkbox"/> 4. Arunachal Pradesh to conserve high-altitude wetlands	

Q.36	Which movie received the Best Picture honour at the 97 th Academy Awards in 2025?	
Ans	<input checked="" type="checkbox"/> 1. Anora	
	<input checked="" type="checkbox"/> 2. The Brutalist	
	<input checked="" type="checkbox"/> 3. Conclave	
	<input checked="" type="checkbox"/> 4. Dune: Part Two	

Q.37	The Vadhaven Port is under development all-weather Greenfield deep draft major port in _____.	
Ans	<input checked="" type="checkbox"/> 1. Tamil Nadu	
	<input checked="" type="checkbox"/> 2. Maharashtra	
	<input checked="" type="checkbox"/> 3. Gujarat	
	<input checked="" type="checkbox"/> 4. Kerala	

Q.38	Which river originates from the Amarkantak Plateau in Madhya Pradesh and flows westward?	
Ans	<input checked="" type="checkbox"/> 1. Son	
	<input checked="" type="checkbox"/> 2. Narmada	
	<input checked="" type="checkbox"/> 3. Tapi	
	<input checked="" type="checkbox"/> 4. Godavari	

Q.39	Gitanjali, a famous collection of poems, was originally written in which of the following languages?	
Ans	<input checked="" type="checkbox"/> 1. English	
	<input checked="" type="checkbox"/> 2. Urdu	
	<input checked="" type="checkbox"/> 3. Hindi	
	<input checked="" type="checkbox"/> 4. Bengali	

Q.40	Which of the following organisations launched the Fiscal Health Index for India in 2025?	
Ans	<input checked="" type="checkbox"/> 1. Ministry of Finance	
	<input checked="" type="checkbox"/> 2. Finance Commission	
	<input checked="" type="checkbox"/> 3. NITI Aayog	
	<input checked="" type="checkbox"/> 4. Reserve Bank of India	

Section : Mathematics		
Q.1	The LCM of the numbers 10.8 and 0.06 is:	
Ans	<input checked="" type="checkbox"/> 1. 10.8	
	<input checked="" type="checkbox"/> 2. 108	
	<input checked="" type="checkbox"/> 3. 1.08	
	<input checked="" type="checkbox"/> 4. 0.108	

Q.2	Simplify the following. $3\left(\left(\frac{6}{3}\right)x^2 - 21x + 18\right) - 6(x^2 + 5x - 18)$	
Ans	<input checked="" type="checkbox"/> 1. $-93x - 162$	
	<input checked="" type="checkbox"/> 2. $93x - 162$	
	<input checked="" type="checkbox"/> 3. $93x + 162$	
	<input checked="" type="checkbox"/> 4. $-93x + 162$	
Q.3	A company offers a scheme discount of 'buy 5 get 3 free' offer on shirts. Find the discount percentage.	
Ans	<input checked="" type="checkbox"/> 1. 36.3%	
	<input checked="" type="checkbox"/> 2. 39.3%	
	<input checked="" type="checkbox"/> 3. 30%	
	<input checked="" type="checkbox"/> 4. 37.5%	
Q.4	The average weight of a family of five members whose weights are 40 kg, 49 kg, 56 kg, 75 kg and 36 kg is:	
Ans	<input checked="" type="checkbox"/> 1. 50.2 kg	
	<input checked="" type="checkbox"/> 2. 53.2 kg	
	<input checked="" type="checkbox"/> 3. 52.2 kg	
	<input checked="" type="checkbox"/> 4. 51.2 kg	
Q.5	Kushal and Brijesh together invested ₹75,100 in a business. At the end of the year, out of a total profit of ₹16,000, Brijesh's share was ₹4,400. What was the difference between their investments?	
Ans	<input checked="" type="checkbox"/> 1. ₹34,043	
	<input checked="" type="checkbox"/> 2. ₹35,768	
	<input checked="" type="checkbox"/> 3. ₹34,385	
	<input checked="" type="checkbox"/> 4. ₹33,795	
Q.6	In $\triangle ABC$, $BD \perp AC$ at D and $\angle DBC = 72^\circ$. E is a point on BC such that $\angle CAE = 56^\circ$. What is the measure of $\angle AEB$?	
Ans	<input checked="" type="checkbox"/> 1. 69°	
	<input checked="" type="checkbox"/> 2. 65°	
	<input checked="" type="checkbox"/> 3. 71°	
	<input checked="" type="checkbox"/> 4. 74°	
Q.7	The product of two consecutive natural numbers is 240. The greater of the two numbers is:	
Ans	<input checked="" type="checkbox"/> 1. 35	
	<input checked="" type="checkbox"/> 2. 23	
	<input checked="" type="checkbox"/> 3. 19	
	<input checked="" type="checkbox"/> 4. 16	
Q.8	The simple interest on a certain sum for $7\frac{2}{3}$ years at the rate of 5.4% per annum is ₹4,347. What will be the amount payable on the same sum at the rate of 7.5% per annum simple interest in $4\frac{4}{5}$ years?	
Ans	<input checked="" type="checkbox"/> 1. ₹14,282	
	<input checked="" type="checkbox"/> 2. ₹14,280	
	<input checked="" type="checkbox"/> 3. ₹14,273	
	<input checked="" type="checkbox"/> 4. ₹14,272	

Q.9	Find the mean proportional between 26 and 104.	
Ans	<input checked="" type="checkbox"/> 1. 53	
	<input checked="" type="checkbox"/> 2. 52	
	<input checked="" type="checkbox"/> 3. 51	
	<input checked="" type="checkbox"/> 4. 49	
Q.10	Mahita is painting the four walls of her study room, which is shaped like a cube with a side length of 18.5 feet. What is the total area she needs to paint (in square feet)?	
Ans	<input checked="" type="checkbox"/> 1. 1385	
	<input checked="" type="checkbox"/> 2. 1358	
	<input checked="" type="checkbox"/> 3. 1396	
	<input checked="" type="checkbox"/> 4. 1369	
Q.11	The income of Raman is ₹44,200. He saves 31% of his income. If his income increases by 22% and expenditure increases by 50%, then his savings will:	
Ans	<input checked="" type="checkbox"/> 1. increase by ₹5,521	
	<input checked="" type="checkbox"/> 2. decrease by ₹5,525	
	<input checked="" type="checkbox"/> 3. increase by ₹5,530	
	<input checked="" type="checkbox"/> 4. decrease by ₹5,524	
Q.12	If the 6-digit number N46M66 is divisible by 11, then which of the options below can give a possible correct relation between M and N?	
Ans	<input checked="" type="checkbox"/> 1. $M - N = 1$	
	<input checked="" type="checkbox"/> 2. $M = N$	
	<input checked="" type="checkbox"/> 3. $M + N = -2$	
	<input checked="" type="checkbox"/> 4. $M - N = 2$	
Q.13	Train A leaves station M at 6:30 AM and reaches station N at 3:30 PM on the same day. Train B leaves station N at 8:30 AM and reaches station M at 1:30 PM on the same day. Find the time when trains A and B meet.	
Ans	<input checked="" type="checkbox"/> 1. 11:30 AM	
	<input checked="" type="checkbox"/> 2. 11:00 AM	
	<input checked="" type="checkbox"/> 3. 10:50 AM	
	<input checked="" type="checkbox"/> 4. 12:00 PM	
Q.14	A shopkeeper lists the price of a fan at 50% above its cost price and offers a 30% discount on its list price. If he earns a profit of ₹86, then what is the list price (in ₹) of the fan?	
Ans	<input checked="" type="checkbox"/> 1. 2,444	
	<input checked="" type="checkbox"/> 2. 2,580	
	<input checked="" type="checkbox"/> 3. 2,825	
	<input checked="" type="checkbox"/> 4. 2,386	
Q.15	The average weight of Ketan, Tushar and Salil is 46 kg. If the average weight of Ketan and Tushar is 36 kg and that of Tushar and Salil is 44 kg, then the weight of Tushar (in kg) is:	
Ans	<input checked="" type="checkbox"/> 1. 37	
	<input checked="" type="checkbox"/> 2. 22	
	<input checked="" type="checkbox"/> 3. 42	
	<input checked="" type="checkbox"/> 4. 32	

Q.16	Simplify: $\sqrt{289} + \sqrt{0.04} - \sqrt{5.76}$	
Ans	<input checked="" type="checkbox"/> 1. 1.78	
	<input checked="" type="checkbox"/> 2. 11.65	
	<input checked="" type="checkbox"/> 3. 14.8	
	<input checked="" type="checkbox"/> 4. 3.07	
Q.17	A bus travelling at 99 km/hr completes a journey in 20 hours. What should its speed be to cover the same distance in 12 hours?	
Ans	<input checked="" type="checkbox"/> 1. 165 km/hr	
	<input checked="" type="checkbox"/> 2. 159 km/hr	
	<input checked="" type="checkbox"/> 3. 168 km/hr	
	<input checked="" type="checkbox"/> 4. 156 km/hr	
Q.18	8 years ago, the age of a father was 21 years more than twice his son's age. After how many years, from now, will he be twice his son's age?	
Ans	<input checked="" type="checkbox"/> 1. 13	
	<input checked="" type="checkbox"/> 2. 11	
	<input checked="" type="checkbox"/> 3. 8	
	<input checked="" type="checkbox"/> 4. 17	
Q.19	By how much is 65% of 55 greater than $\frac{2}{5}$ of 25?	
Ans	<input checked="" type="checkbox"/> 1. 19.75	
	<input checked="" type="checkbox"/> 2. 25.75	
	<input checked="" type="checkbox"/> 3. 22.75	
	<input checked="" type="checkbox"/> 4. 23.75	
Q.20	The H.C.F. and the L.C.M. of two numbers are 3 and 276 respectively. If one of the numbers is 69, find the other one.	
Ans	<input checked="" type="checkbox"/> 1. 12	
	<input checked="" type="checkbox"/> 2. 35	
	<input checked="" type="checkbox"/> 3. 100	
	<input checked="" type="checkbox"/> 4. 110	
Q.21	What smallest number should be added to 15335 so that the sum is completely divisible by 79?	
Ans	<input checked="" type="checkbox"/> 1. 71	
	<input checked="" type="checkbox"/> 2. 68	
	<input checked="" type="checkbox"/> 3. 70	
	<input checked="" type="checkbox"/> 4. 65	
Q.22	If the shape of a water pipe is a rectangle with dimensions 5 m and 3 m and if water runs out of it at the speed of 36 km/hr, then what is the volume (in m ³) of the water that passed through the pipe in 12 minutes?	
Ans	<input checked="" type="checkbox"/> 1. 216000	
	<input checked="" type="checkbox"/> 2. 108000	
	<input checked="" type="checkbox"/> 3. 5400	
	<input checked="" type="checkbox"/> 4. 54000	

Q.23	Two pipes can fill a cistern, individually, in 40 minutes and 14 minutes, respectively. There is a pipe located at the bottom of the cistern to empty it. If all the three pipes are opened simultaneously, then the empty cistern gets filled in 20 minutes. How long will the pipe at the bottom of the tank take to empty the completely filled cistern if no other pipe is then open?
Ans	<input checked="" type="checkbox"/> 1. $20\frac{7}{13}$ minutes
	<input checked="" type="checkbox"/> 2. $21\frac{7}{13}$ minutes
	<input checked="" type="checkbox"/> 3. $19\frac{7}{13}$ minutes
	<input checked="" type="checkbox"/> 4. $22\frac{7}{13}$ minutes
Q.24	I bought two toy guns for ₹1,200. I sold the first one at a loss of 9% and the second at a gain of 16%. If, on the whole I made neither a loss nor a gain, find the cost price (in ₹) of the first toy gun.
Ans	<input checked="" type="checkbox"/> 1. 788
	<input checked="" type="checkbox"/> 2. 792
	<input checked="" type="checkbox"/> 3. 768
	<input checked="" type="checkbox"/> 4. 752
Q.25	Successive discounts of 5% and 40% are equivalent to a single discount of:
Ans	<input checked="" type="checkbox"/> 1. 41%
	<input checked="" type="checkbox"/> 2. 45%
	<input checked="" type="checkbox"/> 3. 43%
	<input checked="" type="checkbox"/> 4. 42%
Q.26	A can lay railway track between two given stations in 20 days and B can do the same job in 16 days. With the help of C, they did the job in 3 days only. Then, C alone can do the job in
Ans	<input checked="" type="checkbox"/> 1. $4\frac{28}{53}$ days
	<input checked="" type="checkbox"/> 2. $11\frac{28}{53}$ days
	<input checked="" type="checkbox"/> 3. $12\frac{28}{53}$ days
	<input checked="" type="checkbox"/> 4. $14\frac{28}{53}$ days
Q.27	Sapna invested ₹22,500 on simple interest, partly at 7% per annum and partly at 5% per annum. If she earns equal interests from the two investments after 3 years, then find the sum invested at 7% per annum (in ₹).
Ans	<input checked="" type="checkbox"/> 1. 9,373
	<input checked="" type="checkbox"/> 2. 9,374
	<input checked="" type="checkbox"/> 3. 9,376
	<input checked="" type="checkbox"/> 4. 9,375

Q.28	Ravi started a business by investing ₹50,000. After six months, Raju joined him and invested an amount of ₹1,00,000. In one year since Ravi invested, they earned a profit of ₹63,000. What is Raju's share of the profit?	
Ans	<input checked="" type="checkbox"/> 1. ₹32,500	
	<input checked="" type="checkbox"/> 2. ₹31,000	
	<input checked="" type="checkbox"/> 3. ₹31,500	
	<input checked="" type="checkbox"/> 4. ₹32,000	

Q.29	Find the value of $\frac{(\sec^4 A - \sec^2 A)}{(\cot^2 A + \cot^4 A)} \times \frac{(\operatorname{cosec}^4 A - \operatorname{cosec}^2 A)}{(\tan^2 A + \tan^4 A)} + \cot^2 A$.	
Ans	<input checked="" type="checkbox"/> 1. $\cot^2 A$	
	<input checked="" type="checkbox"/> 2. 0	
	<input checked="" type="checkbox"/> 3. 1	
	<input checked="" type="checkbox"/> 4. $\operatorname{cosec}^2 A$	

Q.30	Find the value of $24^{-10} \div 24^{16} \times 24^{-7}$.	
Ans	<input checked="" type="checkbox"/> 1. 24^{-43}	
	<input checked="" type="checkbox"/> 2. 24^{-33}	
	<input checked="" type="checkbox"/> 3. 24^{-38}	
	<input checked="" type="checkbox"/> 4. 24^{-31}	

Section : General Intelligence and Reasoning

Q.1	In a certain code language, 'SAID' is coded as '3517' and 'AERO' is coded as '2146'. What is the code for 'A' in the given code language?	
Ans	<input checked="" type="checkbox"/> 1. 5	
	<input checked="" type="checkbox"/> 2. 2	
	<input checked="" type="checkbox"/> 3. 1	
	<input checked="" type="checkbox"/> 4. 6	

Q.2	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 E and B. Only A is kept above C. No box is kept below B. G is kept at some place below F but at some place above D. How many boxes are kept below F?	
Ans	<input checked="" type="checkbox"/> 1. 2	
	<input checked="" type="checkbox"/> 2. 4	
	<input checked="" type="checkbox"/> 3. 3	
	<input checked="" type="checkbox"/> 4. 1	

Q.3	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	<input checked="" type="checkbox"/> 1. KMH	
	<input checked="" type="checkbox"/> 2. IKE	
	<input checked="" type="checkbox"/> 3. GIC	
	<input checked="" type="checkbox"/> 4. MOI	

Q.4	<p>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).</p> <p>Statements: Some Circular Saws are Trowels. Some Trowels are Power Saws.</p> <p>Conclusions: I: Some Circular Saws are Power Saws. II: No Circular Saws are Power Saws.</p>	
Ans	<input checked="" type="checkbox"/> 1. Only conclusion (I) follows.	
	<input checked="" type="checkbox"/> 2. Neither conclusion (I) nor (II) follows.	
	<input checked="" type="checkbox"/> 3. Both conclusions (I) and (II) follow.	
	<input checked="" type="checkbox"/> 4. Only conclusion (II) follows.	
Q.5	<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>Statements: All soaps are gels. All soaps are conditioners.</p> <p>Conclusions: (I) Some gels are conditioners. (II) All conditioners are soaps.</p>	
Ans	<input checked="" type="checkbox"/> 1. Both conclusions (I) and (II) follow.	
	<input checked="" type="checkbox"/> 2. Neither conclusion (I) nor (II) follows.	
	<input checked="" type="checkbox"/> 3. Only conclusion (II) follows.	
	<input checked="" type="checkbox"/> 4. Only conclusion (I) follows.	
Q.6	A, B, C, D, Q, R and S are sitting around a circular table, facing the centre of the table. Only two people sit between D and A, when counted from the left of A. Q sits third to the left of S. R sits to the immediate right of S. R sits second to the left of D. B is not an immediate neighbour of Q. Who sits third to the right of C?	
Ans	<input checked="" type="checkbox"/> 1. D	
	<input checked="" type="checkbox"/> 2. S	
	<input checked="" type="checkbox"/> 3. R	
	<input checked="" type="checkbox"/> 4. A	
Q.7	A, B, C, D, Q, R and S are sitting around a circular table, facing the centre of the table. B sits third to the left of Q. R sits second to the left of S. Q is an immediate neighbour of both A and R. C is not an immediate neighbour of B. How many people sit between D and R, when counted from the right of D?	
Ans	<input checked="" type="checkbox"/> 1. Three	
	<input checked="" type="checkbox"/> 2. One	
	<input checked="" type="checkbox"/> 3. Two	
	<input checked="" type="checkbox"/> 4. Four	
Q.8	DREAM is related to IWJFR in a certain way based on the English alphabetical order. In the same way, FILED is related to KNQJI. To which of the given options is BLOWN related, following the same logic?	
Ans	<input checked="" type="checkbox"/> 1. GQTBS	
	<input checked="" type="checkbox"/> 2. FPSAR	
	<input checked="" type="checkbox"/> 3. HRUCT	
	<input checked="" type="checkbox"/> 4. GRSCS	

Q.9	Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete? LOH19 MPI27 NQJ35 ORK43 ?	
Ans	<input checked="" type="checkbox"/> 1. PSK50	
	<input checked="" type="checkbox"/> 2. PSL50	
	<input checked="" type="checkbox"/> 3. PSL51	
	<input checked="" type="checkbox"/> 4. PSK51	
Q.10	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	<input checked="" type="checkbox"/> 1. ERM	
	<input checked="" type="checkbox"/> 2. BFJ	
	<input checked="" type="checkbox"/> 3. SWA	
	<input checked="" type="checkbox"/> 4. UYC	
Q.11	Seven boxes G, H, I, J, K, L and S are kept one over the other but not necessarily in the same order. Only three boxes are kept below S. Only two boxes are kept between S and L. Only G is kept below J. H is kept at some place below K and at some place above J. I is kept above K. How many boxes are kept between K and J?	
Ans	<input checked="" type="checkbox"/> 1. Four	
	<input checked="" type="checkbox"/> 2. One	
	<input checked="" type="checkbox"/> 3. Two	
	<input checked="" type="checkbox"/> 4. Three	
Q.12	If 1 is added to each even digit and 2 is subtracted from each odd digit in the number 5237648, how many digits will appear more than once in the new number thus formed?	
Ans	<input checked="" type="checkbox"/> 1. None	
	<input checked="" type="checkbox"/> 2. Two	
	<input checked="" type="checkbox"/> 3. Three	
	<input checked="" type="checkbox"/> 4. One	
Q.13	Mr. Bravo starts from Point A and drives 1 km towards the west. He then takes a left turn, drives 2 km, turns left and drives 5 km. He then takes a left turn and drives 7 km. He takes a final left turn, drives 4 km and stops at Point P. 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	<input checked="" type="checkbox"/> 1. 4 km to the west	
	<input checked="" type="checkbox"/> 2. 5 km to the south	
	<input checked="" type="checkbox"/> 3. 2 km to the north	
	<input checked="" type="checkbox"/> 4. 6 km to the east	
Q.14	In a certain code language, 'A = B' means 'A is the mother of B', 'A \$ B' means 'A is the brother of B', 'A @ B' means 'A is the wife of B' and 'A * B' means 'A is the father of B'. How is W related to R if W \$ A @ C * D = R?	
Ans	<input checked="" type="checkbox"/> 1. Brother	
	<input checked="" type="checkbox"/> 2. Father	
	<input checked="" type="checkbox"/> 3. Mother's father	
	<input checked="" type="checkbox"/> 4. Mother's mother's brother	

Q.15	What will come in place of the question mark (?) in the following equation, if '+' and 'x' are interchanged and '-' and '÷' are interchanged? $42 \div 11 + 3 \times 18 - 2 = ?$	
Ans	<input checked="" type="checkbox"/> 1. 36	
	<input checked="" type="checkbox"/> 2. 24	
	<input checked="" type="checkbox"/> 3. 30	
	<input checked="" type="checkbox"/> 4. 18	
Q.16	If 1 is added to each odd digit and 4 is subtracted from each even digit in the number 6854376, what will be difference between the highest and lowest digits in the new number thus formed?	
Ans	<input checked="" type="checkbox"/> 1. 6	
	<input checked="" type="checkbox"/> 2. 7	
	<input checked="" type="checkbox"/> 3. 8	
	<input checked="" type="checkbox"/> 4. 4	
Q.17	Each of the digits in the number 5368794 is arranged in the ascending order from left to right. What will be the sum of the digits that are first from the left and first from the right in the new number thus formed?	
Ans	<input checked="" type="checkbox"/> 1. 10	
	<input checked="" type="checkbox"/> 2. 9	
	<input checked="" type="checkbox"/> 3. 12	
	<input checked="" type="checkbox"/> 4. 7	
Q.18	Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete? IGE 16, LJH 21, OMK 26, RPN 31, ?	
Ans	<input checked="" type="checkbox"/> 1. UYX 36	
	<input checked="" type="checkbox"/> 2. USQ 36	
	<input checked="" type="checkbox"/> 3. VXY 28	
	<input checked="" type="checkbox"/> 4. VYW 36	
Q.19	Kasish starts from Point A and drives 10 km towards south. She then takes a left turn, drives 6 km, turns left and drives 11 km. She then takes a left turn and drives 7 km. She takes a final left turn, drives 1 km and stops at Point P. How far (shortest distance) and towards which direction should she drive in order to reach Point A again? (All turns are 90° turns only unless specified.)	
Ans	<input checked="" type="checkbox"/> 1. 1 km to east	
	<input checked="" type="checkbox"/> 2. 2 km to east	
	<input checked="" type="checkbox"/> 3. 1 km to west	
	<input checked="" type="checkbox"/> 4. 2 km to west	
Q.20	What should come in place of the question mark (?) in the given series? 13 29 55 113 223 ?	
Ans	<input checked="" type="checkbox"/> 1. 494	
	<input checked="" type="checkbox"/> 2. 449	
	<input checked="" type="checkbox"/> 3. 498	
	<input checked="" type="checkbox"/> 4. 489	

Q.21	Piyush is ranked 11 th from the top and 29 th from the bottom in his class. How many students are there in the class?	
Ans	<input checked="" type="checkbox"/> 1. 38	
	<input checked="" type="checkbox"/> 2. 40	
	<input checked="" type="checkbox"/> 3. 37	
	<input checked="" type="checkbox"/> 4. 39	
Q.22	<p>In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the pair in which the numbers are related in the same way as are the numbers of the following pairs.</p> <p>(Note: Operations should be performed on the whole numbers, without breaking down the numbers into its 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.)</p> <p>12, 146 8, 66</p>	
Ans	<input checked="" type="checkbox"/> 1. 6, 34	
	<input checked="" type="checkbox"/> 2. 11, 123	
	<input checked="" type="checkbox"/> 3. 7, 49	
	<input checked="" type="checkbox"/> 4. 4, 66	
Q.23	<p>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.</p> <p>BLOW - WLBO - LOBW LEAF - FELA - EALF</p>	
Ans	<input checked="" type="checkbox"/> 1. MOVE - EOMV - VOME	
	<input checked="" type="checkbox"/> 2. TOUR - OTUR - ROUT	
	<input checked="" type="checkbox"/> 3. CLAW - CALW - WALC	
	<input checked="" type="checkbox"/> 4. FANG - GAFN - ANFG	
Q.24	<p>Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only.</p> <p>(Left) % 9 % 2 7 5 & \$ * 5 © 6 1 1 * € 4 # 1 7 3 @ (Right)</p> <p>How many such symbols are there each of which is immediately preceded by a number and also immediately followed by a symbol?</p>	
Ans	<input checked="" type="checkbox"/> 1. 3	
	<input checked="" type="checkbox"/> 2. 4	
	<input checked="" type="checkbox"/> 3. 1	
	<input checked="" type="checkbox"/> 4. 2	
Q.25	<p>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.</p> <p>TOES - SETO - TEOS CLAP - PACL - CALP</p>	
Ans	<input checked="" type="checkbox"/> 1. CALF - FLCA - ALCF	
	<input checked="" type="checkbox"/> 2. RUST - RSUT - TSUR	
	<input checked="" type="checkbox"/> 3. TUNE - UNTE - UNET	
	<input checked="" type="checkbox"/> 4. MICK - KCMI - MCIK	

Q.26	What should come in place of the question mark (?) in the given series? 789 799 800 810 811 821 822 ?	
Ans	<input checked="" type="checkbox"/> 1. 832	
	<input type="checkbox"/> 2. 833	
	<input type="checkbox"/> 3. 831	
	<input type="checkbox"/> 4. 823	
Q.27	In a certain code language, 'MUGS' is coded as '4627' and 'UNIT' is coded as '1375'. What is the code for 'U' in the given code language?	
Ans	<input type="checkbox"/> 1. 5	
	<input type="checkbox"/> 2. 6	
	<input type="checkbox"/> 3. 1	
	<input checked="" type="checkbox"/> 4. 7	
Q.28	What should come in place of the question mark (?) in the given series? 31 32 34 38 46 ?	
Ans	<input type="checkbox"/> 1. 63	
	<input type="checkbox"/> 2. 64	
	<input type="checkbox"/> 3. 61	
	<input checked="" type="checkbox"/> 4. 62	
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 pair.)	
Ans	<input type="checkbox"/> 1. FH-HJ	
	<input type="checkbox"/> 2. IK-KM	
	<input type="checkbox"/> 3. MO-OQ	
	<input checked="" type="checkbox"/> 4. RT-TB	
Q.30	Refer to the following number and symbol series and answer the question that follows. All numbers are single-digit. Counting to be done from left to right. (Left) & 3 Ω 9 # 1 * 2 + % 4 6 @ 8 \$ 7 £ 5 (Right) How many such symbols are there each of which is immediately preceded by a number and also immediately followed by another number?	
Ans	<input type="checkbox"/> 1. 4	
	<input type="checkbox"/> 2. 7	
	<input checked="" type="checkbox"/> 3. 6	
	<input type="checkbox"/> 4. 5	