



## 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	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	Which of the following sectors was the primary focus of India's First Five-Year Plan (1951-56)?	
Ans	<input checked="" type="checkbox"/> 1. Industry and Infrastructure	
	<input checked="" type="checkbox"/> 2. Defence and Security	
	<input checked="" type="checkbox"/> 3. Services and Education	
	<input checked="" type="checkbox"/> 4. Agriculture and Irrigation	
Q.2	Which year was the Pradhan Mantri Jan Dhan Yojana launched?	
Ans	<input checked="" type="checkbox"/> 1. 2014	
	<input checked="" type="checkbox"/> 2. 2013	
	<input checked="" type="checkbox"/> 3. 2016	
	<input checked="" type="checkbox"/> 4. 2015	
Q.3	Which Indian university showcased India's first fully automated vegetable sapling transplanter at the Ente Keralam exhibition, held in May 2025 at Marine Drive, Kochi, as part of the Kerala government's fourth-anniversary celebrations?	
Ans	<input checked="" type="checkbox"/> 1. Indian Institute of Science (IISc), Bengaluru	
	<input checked="" type="checkbox"/> 2. Cochin University of Science and Technology (Cusat)	
	<input checked="" type="checkbox"/> 3. Indian Institute of Technology Madras (IIT-M)	
	<input checked="" type="checkbox"/> 4. Kerala Agricultural University	
Q.4	Which of the following local winds is known to bring rain to Tamil Nadu during winter?	
Ans	<input checked="" type="checkbox"/> 1. Northeast monsoon	
	<input checked="" type="checkbox"/> 2. Jet stream	
	<input checked="" type="checkbox"/> 3. Southwest monsoon	
	<input checked="" type="checkbox"/> 4. Nor'wester	
Q.5	Which fault in the Peninsular Plateau is known for recurrent seismic activity?	
Ans	<input checked="" type="checkbox"/> 1. Vindhya Fault	
	<input checked="" type="checkbox"/> 2. Malda Fault	
	<input checked="" type="checkbox"/> 3. Bhima Fault	
	<input checked="" type="checkbox"/> 4. Narmada Fault	

Q.6	At the 2025 International Table Tennis Federation (ITTF) World Table Tennis Championships Finals held in Doha, who emerged as the men's singles champion?	
Ans	<input checked="" type="checkbox"/> 1. Ma Long	
	<input checked="" type="checkbox"/> 2. Wang Chuqin	
	<input checked="" type="checkbox"/> 3. Fan Zhendong	
	<input checked="" type="checkbox"/> 4. Lin Gaoyuan	
Q.7	Which reform movement in Kerala focused on the upliftment of the backward castes through education and social equality?	
Ans	<input checked="" type="checkbox"/> 1. Kayastha Sabha	
	<input checked="" type="checkbox"/> 2. Singh Sabha	
	<input checked="" type="checkbox"/> 3. Arya Samaj	
	<input checked="" type="checkbox"/> 4. SNDP Sabha	
Q.8	Which of the following minerals is essential for oxygen transport in the blood?	
Ans	<input checked="" type="checkbox"/> 1. Calcium	
	<input checked="" type="checkbox"/> 2. Zinc	
	<input checked="" type="checkbox"/> 3. Iron	
	<input checked="" type="checkbox"/> 4. Magnesium	
Q.9	Which authority can dissolve the Council of Ministers at the state level?	
Ans	<input checked="" type="checkbox"/> 1. Prime Minister	
	<input checked="" type="checkbox"/> 2. President	
	<input checked="" type="checkbox"/> 3. High Court	
	<input checked="" type="checkbox"/> 4. Governor	
Q.10	Who among the following laid the foundation stone of Indira Gandhi Rashtriya Uran Akademi, commonly called IGRUA, in 1985?	
Ans	<input checked="" type="checkbox"/> 1. Rajiv Gandhi	
	<input checked="" type="checkbox"/> 2. Gulzari Lal Nanda	
	<input checked="" type="checkbox"/> 3. Jawaharlal Nehru	
	<input checked="" type="checkbox"/> 4. Morarji Desai	
Q.11	Which of the following government initiatives was launched in 1973 to conserve a key apex predator and its ecosystem in India?	
Ans	<input checked="" type="checkbox"/> 1. Project Rhino	
	<input checked="" type="checkbox"/> 2. Project Elephant	
	<input checked="" type="checkbox"/> 3. Project Tiger	
	<input checked="" type="checkbox"/> 4. Project Asiatic Lion	
Q.12	The energy produced by using the heat from the Earth's interior is called:	
Ans	<input checked="" type="checkbox"/> 1. Biomass energy	
	<input checked="" type="checkbox"/> 2. Tidal energy	
	<input checked="" type="checkbox"/> 3. Geothermal energy	
	<input checked="" type="checkbox"/> 4. Solar energy	

Q.13	Which of the following metals is used as a catalyst in the Haber process for ammonia synthesis?	
Ans	<input checked="" type="checkbox"/> 1. Platinum	
	<input checked="" type="checkbox"/> 2. Nickel	
	<input checked="" type="checkbox"/> 3. Copper	
	<input checked="" type="checkbox"/> 4. Iron	
Q.14	Which of the following Articles deals with the rights of citizenship at the commencement of the Indian Constitution?	
Ans	<input checked="" type="checkbox"/> 1. Article 7	
	<input checked="" type="checkbox"/> 2. Article 10	
	<input checked="" type="checkbox"/> 3. Article 11	
	<input checked="" type="checkbox"/> 4. Article 5	
Q.15	On which date did Prime Minister Shri Narendra Modi inaugurate the WAVES 2025, India's first-of-its-kind World Audio Visual and Entertainment Summit, held at Mumbai?	
Ans	<input checked="" type="checkbox"/> 1. 20 April 2025	
	<input checked="" type="checkbox"/> 2. 1 May 2025	
	<input checked="" type="checkbox"/> 3. 1 April 2025	
	<input checked="" type="checkbox"/> 4. 4 May 2025	
Q.16	In April 2025, the Supreme Court reinterpreted which Article of the Constitution to direct amendment in KYC digital norms to ensure access for 'persons with disabilities'?	
Ans	<input checked="" type="checkbox"/> 1. Article 14	
	<input checked="" type="checkbox"/> 2. Article 21	
	<input checked="" type="checkbox"/> 3. Article 25	
	<input checked="" type="checkbox"/> 4. Article 30	
Q.17	Which of the following Ministries is responsible for granting Indian citizenship by naturalisation?	
Ans	<input checked="" type="checkbox"/> 1. Ministry of Law and Justice	
	<input checked="" type="checkbox"/> 2. Ministry of Parliamentary Affairs	
	<input checked="" type="checkbox"/> 3. Ministry of External Affairs	
	<input checked="" type="checkbox"/> 4. Ministry of Home Affairs	
Q.18	Who was appointed as the Director General of Defence Estates (DGDE) in June 2025?	
Ans	<input checked="" type="checkbox"/> 1. Shailendra Nath Gupta	
	<input checked="" type="checkbox"/> 2. Vikram Singh Rathore	
	<input checked="" type="checkbox"/> 3. Anil Choudhary	
	<input checked="" type="checkbox"/> 4. Rajesh Kumar Singh	
Q.19	Following the Pahalgam attack in April 2025, India suspended which treaty with Pakistan?	
Ans	<input checked="" type="checkbox"/> 1. Indus Waters Treaty	
	<input checked="" type="checkbox"/> 2. Tashkent Agreement	
	<input checked="" type="checkbox"/> 3. Simla Agreement	
	<input checked="" type="checkbox"/> 4. Lahore Treaty	

Q.20	What is the name of the first indigenously designed and built Anti-Submarine Warfare Shallow Water Craft (ASW-SWC) inducted into the Indian Navy in May 2025?	
Ans	<input type="checkbox"/> 1. INS Tushil	
	<input type="checkbox"/> 2. INS Arighaat	
	<input checked="" type="checkbox"/> 3. INS Arnala	
	<input type="checkbox"/> 4. INS Garuda	
Q.21	Rapid industrialisation was a hallmark of India's early planning efforts. Which Five-Year Plan laid the foundation for India's public sector steel plants?	
Ans	<input type="checkbox"/> 1. First Plan	
	<input type="checkbox"/> 2. Fifth Plan	
	<input type="checkbox"/> 3. Fourth Plan	
	<input checked="" type="checkbox"/> 4. Second Plan	
Q.22	Which of the following is NOT a role of the President of India?	
Ans	<input type="checkbox"/> 1. Passing bills into laws	
	<input type="checkbox"/> 2. Appointing the Prime Minister	
	<input type="checkbox"/> 3. Summoning and dissolving the Parliament	
	<input checked="" type="checkbox"/> 4. Conducting elections	
Q.23	Which of the following is the genome-edited rice varieties launched by India in 2025?	
Ans	<input type="checkbox"/> 1. Basmati Gold	
	<input type="checkbox"/> 2. Super Rice 21	
	<input checked="" type="checkbox"/> 3. DRR Rice 100	
	<input type="checkbox"/> 4. Shakti Rice	
Q.24	The 2025 edition of the Sheila Bharat Ram Theatre Festival took place at which of the following locations?	
Ans	<input type="checkbox"/> 1. Kamani Auditorium, Delhi	
	<input type="checkbox"/> 2. India Habitat Centre, Delhi	
	<input type="checkbox"/> 3. National School of Drama, Delhi	
	<input checked="" type="checkbox"/> 4. Shri Ram Centre of Performing Arts, Delhi	
Q.25	What is the correct way to copy a file or folder using the Drag and Drop method?	
Ans	<input type="checkbox"/> 1. Select the file → Press Ctrl + C → Drop it into the Recycle Bin	
	<input checked="" type="checkbox"/> 2. Select the file in the right pane → Drag it to a folder in the left pane → Drop it there	
	<input type="checkbox"/> 3. Right-click the file → Drag it to the desktop → Press Delete	
	<input type="checkbox"/> 4. Double-click the file → Drag it back into the same folder	
Q.26	Which institute of Indian Council of Agricultural Research (ICAR) developed India's first genome-edited rice variety DRR Rice 100 (Kamla)?	
Ans	<input checked="" type="checkbox"/> 1. ICAR-Indian Institute of Rice Research, Hyderabad	
	<input type="checkbox"/> 2. ICAR-Indian Agricultural Research Institute, New Delhi	
	<input type="checkbox"/> 3. ICAR-Central Institute of Agricultural Engineering, Bhopal	
	<input type="checkbox"/> 4. ICAR-National Rice Research Institute (NRRI), Cuttack	
Q.27	Which of the following is the conjugate base of HCl?	
Ans	<input type="checkbox"/> 1. OH <sup>-</sup>	
	<input type="checkbox"/> 2. H <sub>3</sub> O <sup>+</sup>	
	<input checked="" type="checkbox"/> 3. Cl <sup>-</sup>	
	<input type="checkbox"/> 4. Cl <sup>+</sup>	

Q.28	Land revenue systems under British rule varied regionally. Which land revenue system was primarily followed in Bombay and Madras Presidencies?	
Ans	<input checked="" type="checkbox"/> 1. Ryotwari	
	<input checked="" type="checkbox"/> 2. Mahalwari	
	<input checked="" type="checkbox"/> 3. Jagirdari	
	<input checked="" type="checkbox"/> 4. Zamindari	
Q.29	Who was the first Portuguese governor in India, sent in 1505 to establish naval supremacy?	
Ans	<input checked="" type="checkbox"/> 1. Albuquerque	
	<input checked="" type="checkbox"/> 2. Nino-da-Cunha	
	<input checked="" type="checkbox"/> 3. De Souza	
	<input checked="" type="checkbox"/> 4. De Almeida	
Q.30	When was the Gurjara Pratihara dynasty founded by Nagabhata I in the region of Malwa?	
Ans	<input checked="" type="checkbox"/> 1. 6 <sup>th</sup> century	
	<input checked="" type="checkbox"/> 2. 10 <sup>th</sup> century	
	<input checked="" type="checkbox"/> 3. 12 <sup>th</sup> century	
	<input checked="" type="checkbox"/> 4. 8 <sup>th</sup> century	
Q.31	How can you permanently delete a file in MS Windows so that it DOES NOT go to the Recycle Bin?	
Ans	<input checked="" type="checkbox"/> 1. Right-click on the file and press 'Shift + Delete'	
	<input checked="" type="checkbox"/> 2. Right-click on the file and Press Ctrl + D	
	<input checked="" type="checkbox"/> 3. Drag the file to the Recycle Bin	
	<input checked="" type="checkbox"/> 4. Right-click on the file and select 'Delete'	
Q.32	Who was honoured with the Humanitarian Award at the 72 <sup>nd</sup> Miss World Festival, held in May 2025, for philanthropic work during the Covid pandemic?	
Ans	<input checked="" type="checkbox"/> 1. Akshay Kumar	
	<input checked="" type="checkbox"/> 2. Sonu Sood	
	<input checked="" type="checkbox"/> 3. Amitabh Bachchan	
	<input checked="" type="checkbox"/> 4. Shah Rukh Khan	
Q.33	Who assumed charge as the 18 <sup>th</sup> Commander-in-Chief of the Andaman & Nicobar Command (CINCAN) on 1 June 2025?	
Ans	<input checked="" type="checkbox"/> 1. Lt General Rajesh Mehta	
	<input checked="" type="checkbox"/> 2. Lt General Vijay Kumar Singh	
	<input checked="" type="checkbox"/> 3. Lt General Anil Chatterjee	
	<input checked="" type="checkbox"/> 4. Lt General Dinesh Singh Rana	
Q.34	Which of the following classical theatre forms is associated with Karnataka and features dance-drama with colourful costumes?	
Ans	<input checked="" type="checkbox"/> 1. Bhavai	
	<input checked="" type="checkbox"/> 2. Jatra	
	<input checked="" type="checkbox"/> 3. Yakshagana	
	<input checked="" type="checkbox"/> 4. Kathakali	

Q.35	What is the name of the herbal cream developed by CSIR-CIMAP for treating psoriasis released in May 2025?	
Ans	<input type="checkbox"/> 1. Herbaloid	
	<input type="checkbox"/> 2. DermaHerb	
	<input checked="" type="checkbox"/> 3. PsoriaCIM	
	<input type="checkbox"/> 4. SkinCure	
Q.36	Which of the following was the biggest armed resistance to colonialism in the 19 <sup>th</sup> century in India?	
Ans	<input checked="" type="checkbox"/> 1. Sepoy Mutiny	
	<input type="checkbox"/> 2. First Anglo-Maratha War	
	<input type="checkbox"/> 3. Quit India Movement	
	<input type="checkbox"/> 4. Battle of Buxar	
Q.37	Among which of the following powers did the 'Tripartite Struggle' take place during the 8 <sup>th</sup> and 9 <sup>th</sup> centuries?	
Ans	<input type="checkbox"/> 1. Cholas, Chalukyas and Satavahanas	
	<input type="checkbox"/> 2. Pandyas, Pallavas and Cholas	
	<input type="checkbox"/> 3. Rashtrakutas, Cholas and Vardhanas	
	<input checked="" type="checkbox"/> 4. Palas, Pratiharas and Rashtrakutas	
Q.38	In 2025, India assumed the chairmanship of which international body focused on productivity and sustainability during a meeting held in Jakarta?	
Ans	<input type="checkbox"/> 1. Asia-Pacific Economic Cooperation (APEC) for the 2025–26 term	
	<input type="checkbox"/> 2. ASEAN Council for Economic Growth (ACEG) for a two-year term	
	<input checked="" type="checkbox"/> 3. Asian Productivity Organisation (APO) for the 2025–26 term	
	<input type="checkbox"/> 4. South Asian Association for Productivity (SAAP) till the 2026 term	
Q.39	Which gas was least abundant in the early atmosphere?	
Ans	<input type="checkbox"/> 1. Water vapour	
	<input checked="" type="checkbox"/> 2. Free oxygen	
	<input type="checkbox"/> 3. Carbon dioxide	
	<input type="checkbox"/> 4. Nitrogen	
Q.40	What was the official mascot of the 2025 National Games?	
Ans	<input type="checkbox"/> 1. Tejaswini	
	<input checked="" type="checkbox"/> 2. Mauli	
	<input type="checkbox"/> 3. Gajasimha	
	<input type="checkbox"/> 4. Shikhar	

#### Section : Mathematics

Q.1	A hollow spherical shell is made of a metal of density $40 \text{ g/cm}^3$ . Its internal and external radii are 1 cm and 4 cm, respectively. What is the mass (in kg) of the shell? (Take $\pi = \frac{22}{7}$ .)	
Ans	<input type="checkbox"/> 1. 11.65	
	<input type="checkbox"/> 2. 12.35	
	<input type="checkbox"/> 3. 7.56	
	<input checked="" type="checkbox"/> 4. 10.56	

Q.2	An amount of ₹936 is divided among three persons in the ratio of 2 : 4 : 3. The difference between the largest and the smallest shares (in ₹) in the distribution is:
Ans	<input type="radio"/> 1. 235
	<input type="radio"/> 2. 132
	<input type="radio"/> 3. 151
	<input checked="" type="radio"/> 4. 208
Q.3	By how much is 65% of 75 greater than $\frac{3}{5}$ of 15?
Ans	<input type="radio"/> 1. 33.75
	<input type="radio"/> 2. 37.75
	<input checked="" type="radio"/> 3. 39.75
	<input type="radio"/> 4. 36.75
Q.4	The distance between two electric poles of length 25 metres and 36 metres is x metres. If the two angles of elevation of their respective top from the bottom of the other are complementary to each other, then the value of x (in metres) is:
Ans	<input type="radio"/> 1. 28
	<input checked="" type="radio"/> 2. 30
	<input type="radio"/> 3. 26
	<input type="radio"/> 4. 32
Q.5	A supplier offers a trade discount of 20% on a product priced at ₹5,000. Additionally, there is a scheme discount of 10% on the already discounted price. What is the final price of the product after both discounts?
Ans	<input type="radio"/> 1. ₹3,800
	<input type="radio"/> 2. ₹4,000
	<input type="radio"/> 3. ₹4,500
	<input checked="" type="radio"/> 4. ₹3,600
Q.6	If the third proportional of 9 and 30 be x, then what is the value of x?
Ans	<input type="radio"/> 1. 101
	<input type="radio"/> 2. 102
	<input type="radio"/> 3. 99
	<input checked="" type="radio"/> 4. 100
Q.7	Zeeshan travels 252 km at 63 km/hr, the next 150 km at 30 km/hr and the next 680 km at 68 km/hr. What is his average speed (in km/hr, rounded off to two decimal places) for the whole journey?
Ans	<input type="radio"/> 1. 58.05
	<input type="radio"/> 2. 62.09
	<input type="radio"/> 3. 54.95
	<input checked="" type="radio"/> 4. 56.95
Q.8	What is the difference between a single discount of 48% on ₹1,450 and two successive discounts of 10% and 40% on the same amount?
Ans	<input type="radio"/> 1. ₹28
	<input checked="" type="radio"/> 2. ₹29
	<input type="radio"/> 3. ₹32
	<input type="radio"/> 4. ₹31

Q.9	<i>Simplify:</i> $4\left(\left(\frac{3}{4}\right)x^2 - 25x + 17\right) - 3(x^2 + 8x - 13)$ .	
Ans	<input checked="" type="checkbox"/> 1. $124x - 107$	
	<input checked="" type="checkbox"/> 2. $124x + 107$	
	<input checked="" type="checkbox"/> 3. $-124x - 107$	
	<input checked="" type="checkbox"/> 4. $-124x + 107$	
Q.10	Shahid and Mira have to travel from Delhi to Kanpur in their respective cars. Shahid is driving at 42 km/hr while Mira is driving at 98 km/hr. Find the time taken by Mira to reach Kanpur if Shahid takes 14 hours.	
Ans	<input checked="" type="checkbox"/> 1. 5 hours	
	<input checked="" type="checkbox"/> 2. 2 hours	
	<input checked="" type="checkbox"/> 3. 6 hours	
	<input checked="" type="checkbox"/> 4. 12 hours	
Q.11	A sum of ₹400 amounts to ₹529 in 2 years at a certain rate of interest per annum, compounded annually. The rate of interest per annum is:	
Ans	<input checked="" type="checkbox"/> 1. 11%	
	<input checked="" type="checkbox"/> 2. 15%	
	<input checked="" type="checkbox"/> 3. 18%	
	<input checked="" type="checkbox"/> 4. 16%	
Q.12	A trader claims to sell flour at a profit of 58%, but also dishonestly uses a weight which is 8% less than what is mentioned on it. Find the total percentage of profit earned by the trader. (Round off the answer to the nearest whole number.)	
Ans	<input checked="" type="checkbox"/> 1. 71%	
	<input checked="" type="checkbox"/> 2. 76%	
	<input checked="" type="checkbox"/> 3. 72%	
	<input checked="" type="checkbox"/> 4. 74%	
Q.13	The product of two positive numbers is 80. If the first number is five times of the second number, then the sum of the two numbers is:	
Ans	<input checked="" type="checkbox"/> 1. 29	
	<input checked="" type="checkbox"/> 2. 24	
	<input checked="" type="checkbox"/> 3. 33	
	<input checked="" type="checkbox"/> 4. 27	
Q.14	The LCM of the numbers 15.4 and 0.006 is:	
Ans	<input checked="" type="checkbox"/> 1. 4.62	
	<input checked="" type="checkbox"/> 2. 46.2	
	<input checked="" type="checkbox"/> 3. 462	
	<input checked="" type="checkbox"/> 4. 0.462	
Q.15	Find the simple interest (in ₹) if a sum of ₹400 is borrowed for 3.5 years at 16% per annum rate of interest.	
Ans	<input checked="" type="checkbox"/> 1. 324	
	<input checked="" type="checkbox"/> 2. 274	
	<input checked="" type="checkbox"/> 3. 224	
	<input checked="" type="checkbox"/> 4. 204	



Q.16	Find the value of: $[480 \div \{12 + 2 \times (4 - 9)\}]$ .	
Ans	<input checked="" type="checkbox"/> 1. 241	
	<input checked="" type="checkbox"/> 2. 240	
	<input checked="" type="checkbox"/> 3. 242	
	<input checked="" type="checkbox"/> 4. 243	
Q.17	3 years ago, the age of a father was 18 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. 17	
	<input checked="" type="checkbox"/> 2. 11	
	<input checked="" type="checkbox"/> 3. 13	
	<input checked="" type="checkbox"/> 4. 15	
Q.18	Evaluate: $(-9) - (-60) \div (-10) + (-4) \times 6$	
Ans	<input checked="" type="checkbox"/> 1. -39	
	<input checked="" type="checkbox"/> 2. -38	
	<input checked="" type="checkbox"/> 3. -42	
	<input checked="" type="checkbox"/> 4. -41	
Q.19	A can lay railway track between two given stations in 19 days and B can do the same job in 11 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. $3\frac{32}{119}$ days	
	<input checked="" type="checkbox"/> 2. $8\frac{32}{119}$ days	
	<input checked="" type="checkbox"/> 3. $5\frac{32}{119}$ days	
	<input checked="" type="checkbox"/> 4. $6\frac{32}{119}$ days	
Q.20	The current population of a town is 12,800. It increases by 25% and 35% in two successive years but decreases by 5% in the third year. What is the population of the town at the end of the third year?	
Ans	<input checked="" type="checkbox"/> 1. 20,520	
	<input checked="" type="checkbox"/> 2. 20,525	
	<input checked="" type="checkbox"/> 3. 20,515	
	<input checked="" type="checkbox"/> 4. 20,517	
Q.21	The HCF and the LCM of two numbers are 11 and 330, respectively. If one of the numbers is 66, find the other one.	
Ans	<input checked="" type="checkbox"/> 1. 44	
	<input checked="" type="checkbox"/> 2. 55	
	<input checked="" type="checkbox"/> 3. 66	
	<input checked="" type="checkbox"/> 4. 121	

Q.22	<p>Pipe P can fill <math>\frac{3}{8}</math> part of a tank in 21 hours and pipe Q can fill <math>\frac{2}{7}</math> part of the same tank in 16 hours.</p> <p>Both P and Q were kept open for 2 hours, then both were closed. Pipe R alone was then opened and it emptied the water in the tank in 3 hours. Pipes P, Q and R together can fill the empty tank in:</p>
Ans	<input checked="" type="checkbox"/> 1. 94 hours
	<input checked="" type="checkbox"/> 2. 89 hours
	<input checked="" type="checkbox"/> 3. 67 hours
	<input checked="" type="checkbox"/> 4. 84 hours
Q.23	One side of a right-angled triangle is twice the other and the hypotenuse is 15 cm. Find the area (in $\text{cm}^2$ ) of the triangle.
Ans	<input checked="" type="checkbox"/> 1. 70
	<input checked="" type="checkbox"/> 2. 60
	<input checked="" type="checkbox"/> 3. 45
	<input checked="" type="checkbox"/> 4. 80
Q.24	The value of $\frac{5}{3} + \left( \frac{1}{1 + \frac{5}{6}} \right) - \frac{5}{3}$ is
Ans	<input checked="" type="checkbox"/> 1. $\frac{7}{13}$
	<input checked="" type="checkbox"/> 2. $\frac{6}{11}$
	<input checked="" type="checkbox"/> 3. $\frac{5}{18}$
	<input checked="" type="checkbox"/> 4. $\frac{11}{18}$
Q.25	The average weight (in kg) of a family of five members whose weights are 40 kg, 49 kg, 56 kg, 76 kg and 38 kg is:
Ans	<input checked="" type="checkbox"/> 1. 52.8
	<input checked="" type="checkbox"/> 2. 50.8
	<input checked="" type="checkbox"/> 3. 53.8
	<input checked="" type="checkbox"/> 4. 51.8
Q.26	M and N started a business. M invested ₹50,000 more than N for 3 months, while N invested for 7 months. M's share is ₹328 more than that of N, out of a total profit of ₹4,920. Find the capital contributed by M.
Ans	<input checked="" type="checkbox"/> 1. ₹1,20,000
	<input checked="" type="checkbox"/> 2. ₹1,00,000
	<input checked="" type="checkbox"/> 3. ₹80,000
	<input checked="" type="checkbox"/> 4. ₹60,000
Q.27	50 glass bottles were purchased for ₹50, and 28 glass bottles broke in transit. The trader sold the remaining glass bottles at ₹5.80 each. Find his profit.
Ans	<input checked="" type="checkbox"/> 1. ₹68.50
	<input checked="" type="checkbox"/> 2. ₹76.60
	<input checked="" type="checkbox"/> 3. ₹75.30
	<input checked="" type="checkbox"/> 4. ₹77.60

Q.28	The average runs scored by a batsman in 23 matches is 42. In the next 10 matches, the batsman scored an average of 13 runs. Find his average runs scored (rounded off to two decimals) in all the 33 matches.
Ans	<input type="radio"/> 1. 35.21
	<input type="radio"/> 2. 34.21
	<input checked="" type="radio"/> 3. 33.21
	<input type="radio"/> 4. 32.21

Q.29	The value of $\frac{4}{5} + \left( \frac{1}{1 + \frac{5}{6}} \right) - \frac{2}{5}$ is
Ans	<input checked="" type="radio"/> 1. $\frac{52}{55}$
	<input type="radio"/> 2. $\frac{57}{49}$
	<input type="radio"/> 3. $\frac{51}{61}$
	<input type="radio"/> 4. $\frac{43}{53}$

Q.30	The difference between an interior angle and exterior angle of a regular polygon is 120°. Find the number of sides of the polygon.
Ans	<input type="radio"/> 1. 15
	<input checked="" type="radio"/> 2. 12
	<input type="radio"/> 3. 14
	<input type="radio"/> 4. 10

#### Section : General Intelligence and Reasoning

Q.1	FKPX is related to IPSC in a certain way based on the English alphabetical order. In the same way, REBR is related to UJEW. To which of the following options is ATKG related, following the same logic?
Ans	<input type="radio"/> 1. DFRT
	<input type="radio"/> 2. DYLN
	<input type="radio"/> 3. DLNY
	<input checked="" type="radio"/> 4. DYNL

Q.2	Navneet starts from Point Y and drives 10 km towards west. He then takes a right turn, drives 18 km. He then turns right and drives 10 km. He takes a final right turn, drives 15 km and stops at Point Z. How far (shortest distance) and towards which direction should he drive in order to reach Point Y again? (All turns are 90-degree turns only unless specified)
Ans	<input checked="" type="radio"/> 1. 3 km towards south
	<input type="radio"/> 2. 10 km towards north
	<input type="radio"/> 3. 4 km towards east
	<input type="radio"/> 4. 6 km towards west

Q.3	In a certain code language, 'CLAM' is coded as '1587' and 'LOAM' is coded as '4875'. What is the code for 'O' in that language?
Ans	<input checked="" type="radio"/> 1. 4
	<input type="radio"/> 2. 5
	<input type="radio"/> 3. 7
	<input type="radio"/> 4. 8

Q.4	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. HKO	
	<input checked="" type="checkbox"/> 2. DGK	
	<input checked="" type="checkbox"/> 3. ORW	
	<input checked="" type="checkbox"/> 4. BEI	
Q.5	If + means -, - means ×, × means ÷ and ÷ means +, then what will come in place of the question mark (?) in the following equation?  12 - 2 + 49 × 7 ÷ 5 = ?	
Ans	<input checked="" type="checkbox"/> 1. 22	
	<input checked="" type="checkbox"/> 2. 27	
	<input checked="" type="checkbox"/> 3. 12	
	<input checked="" type="checkbox"/> 4. 17	
Q.6	Seven boxes U, V, W, X, E, F and G are kept one over the other but not necessarily in the same order. Only three boxes are kept below X. Only two boxes are kept between X and W. Only E is kept above V. H is kept at some place below G and at some place above U. Which box is kept at second position from the bottom?	
Ans	<input checked="" type="checkbox"/> 1. X	
	<input checked="" type="checkbox"/> 2. G	
	<input checked="" type="checkbox"/> 3. U	
	<input checked="" type="checkbox"/> 4. W	
Q.7	FRUZ is related to JUYC in a certain way based on the English alphabetical order. In the same way, VDKL is related to ZGOO. To which of the given options is HMWU related, following the same logic?	
Ans	<input checked="" type="checkbox"/> 1. LPAX	
	<input checked="" type="checkbox"/> 2. XPLA	
	<input checked="" type="checkbox"/> 3. LPXA	
	<input checked="" type="checkbox"/> 4. XAPL	
Q.8	What should come in place of the question mark (?) in the given series based on the English alphabetical order?  JUO UFZ FQK QBV ?	
Ans	<input checked="" type="checkbox"/> 1. BGM	
	<input checked="" type="checkbox"/> 2. BMG	
	<input checked="" type="checkbox"/> 3. BYG	
	<input checked="" type="checkbox"/> 4. BGY	
Q.9	If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?  11 B 3 C 20 D 93 A 3 = ?	
Ans	<input checked="" type="checkbox"/> 1. 2	
	<input checked="" type="checkbox"/> 2. 9	
	<input checked="" type="checkbox"/> 3. 15	
	<input checked="" type="checkbox"/> 4. 22	

Q.10	What should come in place of the question mark (?) in the given series?  510 511 519 546 610 ?	
Ans	<input checked="" type="checkbox"/> 1. 735	
	<input type="checkbox"/> 2. 695	
	<input type="checkbox"/> 3. 755	
	<input type="checkbox"/> 4. 715	
Q.11	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). <b>Statements:</b> All candles are waxes. No candle is a tubelight. <b>Conclusions:</b> (I) Some tubelights are waxes. (II) All waxes are tubelights.	
Ans	<input type="checkbox"/> 1. Both conclusions (I) and (II) follow.	
	<input type="checkbox"/> 2. Only conclusion (I) follows.	
	<input type="checkbox"/> 3. Only conclusion (II) follows.	
	<input checked="" type="checkbox"/> 4. Neither conclusion (I) nor (II) follows.	
Q.12	A, B, C, D, E, F and G are sitting around a circular table facing the centre. F sits to the immediate right of G. B sits third to the left of G. A is the immediate neighbour of D and G. C sits second to the left of B. How many people sit between E and D when counted from the left of D?	
Ans	<input checked="" type="checkbox"/> 1. One	
	<input type="checkbox"/> 2. Four	
	<input type="checkbox"/> 3. Two	
	<input type="checkbox"/> 4. Three	
Q.13	This question is based on the five, three-digit numbers given below.  (Left) 984 673 543 126 341 (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?	
Ans	<input type="checkbox"/> 1. 4	
	<input type="checkbox"/> 2. 1	
	<input checked="" type="checkbox"/> 3. 3	
	<input type="checkbox"/> 4. 2	
Q.14	Kishori ranked 15 <sup>th</sup> from the bottom and 26 <sup>th</sup> from the top in her class. How many students are there in her class?	
Ans	<input checked="" type="checkbox"/> 1. 40	
	<input type="checkbox"/> 2. 38	
	<input type="checkbox"/> 3. 39	
	<input type="checkbox"/> 4. 37	

Q.15	Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?  JCV 13, MFY 25, PIB 49, SLE 97, VOH 193, ?	
Ans	<input checked="" type="checkbox"/> 1. YRK 385	
	<input type="checkbox"/> 2. URK 385	
	<input type="checkbox"/> 3. YOK 385	
	<input type="checkbox"/> 4. YRK 383	
Q.16	Seven boxes A, B, C, D, E, F and G are kept one over the other but not necessarily in the same order. No box is kept above F. Only three boxes are kept between F and E. Only one box is kept between G and C. C is kept immediately above E. Only four boxes are kept between G and A. B is kept at some place above D. How many boxes are kept above E?	
Ans	<input type="checkbox"/> 1. Two	
	<input checked="" type="checkbox"/> 2. Four	
	<input type="checkbox"/> 3. One	
	<input type="checkbox"/> 4. Three	
Q.17	What should come in place of the question mark (?) in the given series?  7 , 16 , 30 , 49 , 73 , ?	
Ans	<input type="checkbox"/> 1. 105	
	<input type="checkbox"/> 2. 104	
	<input type="checkbox"/> 3. 103	
	<input checked="" type="checkbox"/> 4. 102	
Q.18	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	<input type="checkbox"/> 1. HL-OF	
	<input checked="" type="checkbox"/> 2. CG-JB	
	<input type="checkbox"/> 3. KO-RI	
	<input type="checkbox"/> 4. EI-LC	
Q.19	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	<input type="checkbox"/> 1. AE-DH	
	<input type="checkbox"/> 2. KO-NR	
	<input checked="" type="checkbox"/> 3. HL-JQ	
	<input type="checkbox"/> 4. LP-OS	
Q.20	This question is based on the five, three-digit numbers given below. (Left) 458 294 680 183 297 (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 ascending order, the position of how many numbers will remain unchanged?	
Ans	<input type="checkbox"/> 1. None	
	<input type="checkbox"/> 2. Four	
	<input type="checkbox"/> 3. Two	
	<input checked="" type="checkbox"/> 4. One	

Q.21	In a certain code language, 'MALT' is coded as '1264' and 'PALM' is coded as '4521'. What is the code for 'P' in that language?	
Ans	<input checked="" type="checkbox"/> 1. 4	
	<input checked="" type="checkbox"/> 2. 2	
	<input checked="" type="checkbox"/> 3. 5	
	<input checked="" type="checkbox"/> 4. 1	
Q.22	JFCK is related to HDAI in a certain way based on the English alphabetical order. In the same way, MIFN is related to KGDL. To which of the given options is PLIQ related, following the same logic?	
Ans	<input checked="" type="checkbox"/> 1. JNOG	
	<input checked="" type="checkbox"/> 2. JNGO	
	<input checked="" type="checkbox"/> 3. NJOG	
	<input checked="" type="checkbox"/> 4. NJGO	
Q.23	If 'A' stands for '+', 'B' stands for 'x', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?  6 B 7 D 84 A 3 C 15 = ?	
Ans	<input checked="" type="checkbox"/> 1. 32	
	<input checked="" type="checkbox"/> 2. 42	
	<input checked="" type="checkbox"/> 3. 36	
	<input checked="" type="checkbox"/> 4. 29	
Q.24	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 E related to N if 'E @ F ÷ G + M \$ N'?	
Ans	<input checked="" type="checkbox"/> 1. Mother's mother	
	<input checked="" type="checkbox"/> 2. Mother's father	
	<input checked="" type="checkbox"/> 3. Mother's brother	
	<input checked="" type="checkbox"/> 4. Mother's sister	
Q.25	What should come in place of the question mark (?) in the given series?  26 40 55 71 ? 106	
Ans	<input checked="" type="checkbox"/> 1. 88	
	<input checked="" type="checkbox"/> 2. 98	
	<input checked="" type="checkbox"/> 3. 104	
	<input checked="" type="checkbox"/> 4. 92	
Q.26	Seven people, F, G, H, I, J, K and R, are sitting around a circular table facing the centre of the table. I sits third to the left of J. R sits second to the left of G. Only J sits between H and R. F is not an immediate neighbour of I. How many people sit between K and R when counted from the right of K?	
Ans	<input checked="" type="checkbox"/> 1. One	
	<input checked="" type="checkbox"/> 2. Four	
	<input checked="" type="checkbox"/> 3. Two	
	<input checked="" type="checkbox"/> 4. Three	

Q.27	<p>In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set in which the numbers are related in the same way as are the numbers of the following sets.</p> <p>(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.)</p> <p>19, 33 17, 29</p>	
Ans	<input checked="" type="checkbox"/> 1. 26, 43	
	<input checked="" type="checkbox"/> 2. 23, 40	
	<input checked="" type="checkbox"/> 3. 24, 43	
	<input checked="" type="checkbox"/> 4. 22, 38	
Q.28	Each of the digits in the number 8237519 is arranged in ascending order from left to right. What will be the sum of the digits which are second from the left and second from the right in the new number thus formed?	
Ans	<input checked="" type="checkbox"/> 1. 9	
	<input checked="" type="checkbox"/> 2. 10	
	<input checked="" type="checkbox"/> 3. 8	
	<input checked="" type="checkbox"/> 4. 12	
Q.29	<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> Some files are books. All books are keys.</p> <p><b>Conclusions:</b> (I) Some files are keys. (II) All keys are books.</p>	
Ans	<input checked="" type="checkbox"/> 1. Only conclusion (I) follows.	
	<input checked="" type="checkbox"/> 2. Only conclusion (II) follows.	
	<input checked="" type="checkbox"/> 3. Neither conclusion (I) nor (II) follows.	
	<input checked="" type="checkbox"/> 4. Both conclusions (I) and (II) follow.	
Q.30	Virat starts from Point A and drives 10 km towards South. He then takes a right turn, drives 9 km, turns left and drives 5 km. He then takes a left turn and drives 9 km. He takes a final right turn, drives 4 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	<input checked="" type="checkbox"/> 1. 19 km towards North	
	<input checked="" type="checkbox"/> 2. 19 km towards South	
	<input checked="" type="checkbox"/> 3. 15 km towards East	
	<input checked="" type="checkbox"/> 4. 15 km towards South	