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	04/09/2025
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 Durgapur Steel Plant of West Bengal is situated on the banks of which river?

Ans ✅ 1. Damodar

❌ 2. Teesta

❌ 3. Mahananda

❌ 4. Hooghly

Q.2 What is the primary purpose of Judicial Review in India?

Ans ✅ 1. To examine the constitutionality of laws

❌ 2. To amend the Constitution

❌ 3. To appoint ministers

❌ 4. To elect judges

Q.3 Within how many days must information be provided under the RTI Act for general requests?

Ans ✅ 1. 30 days

❌ 2. 20 days

❌ 3. 60 days

❌ 4. 15 days

Q.4 On which of the following dates did Mahatma Gandhi begin a 21-day fast of self-purification to support the Harijan movement?

Ans ❌ 1. 9 March 1930

❌ 2. 7 May 1923

❌ 3. 8 September 1927

✅ 4. 8 May 1933

Q.5 Which of the following was NOT a part of the New Economic Policy reforms introduced in 1991?

Ans ❌ 1. Liberalisation

❌ 2. Globalisation

❌ 3. Privatisation

✅ 4. Nationalisation of banks

Q.6 The Indian Army celebrated its 77th Army Day at Pune on which date, which marked the third occasion that the Army Day Parade was held outside Delhi?

Ans
✗ 1. 5 March 2025

✗ 2. 5 February 2025

✗ 3. 15 February 2025

✓ 4. 15 January 2025

Q.7 Who headed the Diwan-i-Arz and was responsible for managing soldiers, branding horses, and administering war provisions?

Ans
✗ 1. Naib

✗ 2. Amir-i-Dad

✓ 3. Ariz-i-Mumalik

✗ 4. Dabir-i-Khas

Q.8 How did globalisation impact Indian industries?

Ans
✗ 1. Made them weaker

✗ 2. Banned private companies

✓ 3. Gave more competition and modern technology

✗ 4. Closed them down

Q.9 Which one of the following statements correctly explains the cause of volcanism?

Ans
✓ 1. It results from molten rock rising from the Earth's interior.

✗ 2. It is caused by excessive surface erosion.

✗ 3. It happens because of atmospheric disturbances.

✗ 4. It is due to the movement of glaciers.

Q.10 Social life in the Vedic period was divided into how many ashramas?

Ans
✓ 1. Four

✗ 2. Three

✗ 3. Six

✗ 4. Ten

Q.11 Which statement best differentiates ROM from RAM in terms of volatility and usage?

Ans
✓ 1. RAM is volatile and stores temporary data; ROM is non-volatile and stores boot instructions.

✗ 2. ROM is used for multitasking; RAM is used for storing BIOS.

✗ 3. ROM is volatile and used for running programs; RAM is non-volatile and stores firmware.

✗ 4. RAM is permanent; ROM is temporary.

Q.12 The first session of the Indian National Congress was presided by _____.

Ans
✗ 1. Gopal Krishna Gokhale

✗ 2. Dadabhai Naoroji

✗ 3. Mahadev Govind Ranade

✓ 4. Womesh Chandra Bonnerjee

Q.13 Which of the following could be regarded as the only positive outcome of the British reforms in India?

Ans
✗ 1. Deindustrialisation

✗ 2. Ruralisation

✗ 3. One-way free trade

✓ 4. Social reform laws

Q.14 In February 2025, which Indian agency launched a ₹500-crore Technology Adoption Fund to support early-stage space startups and reduce import dependency?

Ans
- ✘ 1. Antrix Corporation
- ✘ 2. ISRO
- ✘ 3. DRDO
- ✔ 4. IN-SPACe

Q.15 The Eleventh Schedule of the Constitution was introduced through the 73rd Amendment. What is its significance in the context of Panchayati Raj?

Ans
- ✘ 1. It outlines administrative powers of the Gram Sabha.
- ✘ 2. It lists subjects to be legislated by the Union government.
- ✔ 3. It specifies 29 functional subjects to be devolved to Panchayats by States.
- ✘ 4. It specifies 44 functional subjects to be devolved to Panchayats by States.

Q.16 Who became the Chief Minister of Delhi after the February 2025 Legislative Assembly elections?

Ans
- ✘ 1. Arvind Kejriwal
- ✘ 2. Parvesh Verma
- ✘ 3. Atishi Marlena
- ✔ 4. Rekha Gupta

Q.17 According to a March 2025 PIB report, India's defence production reached ₹1.27 trillion in FY 2023-24, showing an increase of what percentage from FY 2014-15?

Ans
- ✘ 1. 200%
- ✔ 2. 174%
- ✘ 3. 130%
- ✘ 4. 151%

Q.18 The Appropriation Bill 2025, was introduced in the Lok Sabha by which Ministry?

Ans
- ✘ 1. Ministry of External Affairs
- ✘ 2. Ministry of Defence
- ✔ 3. Ministry of Finance
- ✘ 4. Ministry of Home Affairs

Q.19 In which of the following years was Amazon.in launched in India?

Ans
- ✔ 1. 2013
- ✘ 2. 2008
- ✘ 3. 2015
- ✘ 4. 2010

Q.20 Where was the 12th International Tourism Mart (ITM) held in November 2024 to promote Northeast India's tourism potential?

Ans
- ✘ 1. Imphal, Manipur
- ✔ 2. Kaziranga, Assam
- ✘ 3. Aizawl, Mizoram
- ✘ 4. Shillong, Meghalaya

Q.21 What is the known equation that connects the concentration of a buffer solution's constituents, weak acid/salt or weak base/salt, and its pH?

Ans
- ✘ 1. Arrhenius equation
- ✘ 2. Nernst - Boyle equation
- ✔ 3. Henderson-Hasselbalch equation
- ✘ 4. Van't Hoff equation

Q.22 Which of the following is not a function of biosphere reserves?

Ans ✗ 1. Cultural heritage preservation

✓ 2. Promotion of monoculture farming

✗ 3. Sustainable development of local communities

✗ 4. Conservation of biodiversity

Q.23 Which sector was the largest contributor to India's GDP between 1947 and 1991?

Ans ✗ 1. Service sector

✓ 2. Agriculture sector

✗ 3. Industrial sector

✗ 4. Financial sector

Q.24 Which of the following is considered a non-renewable natural resource?

Ans ✗ 1. Wind energy

✗ 2. Forests

✗ 3. Solar energy

✓ 4. Natural gas

Q.25 In which of the following years was Sanskrit declared a Classical Language in India?

Ans ✓ 1. 2005

✗ 2. 2003

✗ 3. 2010

✗ 4. 2002

Q.26 Which of the following cities hosted the 2025 Conferences of the Parties for the Basel, Rotterdam and Stockholm Conventions (BRS COPs)?

Ans ✓ 1. Geneva

✗ 2. Rotterdam

✗ 3. Stockholm

✗ 4. Hong Kong

Q.27 The Banking Laws (Amendment) Bill passed in the Rajya Sabha in March 2025 extended the tenure of Directors of co-operative banks to how many years?

Ans ✓ 1. 10 years

✗ 2. 6 years

✗ 3. 9 years

✗ 4. 8 years

Q.28 Which of the following organisations unveiled the country's first five Carbon Capture and Utilisation (CCU) testbeds in the cement sector in May 2025?

Ans ✗ 1. Indian Space Research Organisation (ISRO)

✗ 2. Union Ministry of Environment, Forest and Climate Change (MoEFCC)

✓ 3. Department of Science and Technology (DST), Government of India

✗ 4. Defence Research and Development Organisation (DRDO)

Q.29 The retreating monsoon causes rainfall mainly in _____.

Ans ✗ 1. Assam

✓ 2. Tamil Nadu

✗ 3. Maharashtra

✗ 4. Punjab

Q.30 In an optical fibre, the core is made of a _____.

Ans
- ✔ 1. material with higher refractive index
- ✘ 2. material with lower refractive index
- ✘ 3. material with higher density
- ✘ 4. material with lower density

Q.31 Which Indian actress was honoured at Cannes 2025 as part of the 'Women in Cinema' initiative?

Ans
- ✘ 1. Deepika Padukone
- ✔ 2. Jacqueline Fernandez
- ✘ 3. Priyanka Chopra
- ✘ 4. Alia Bhatt

Q.32 Which Constitutional Amendment has most recently extended the reservation of seats for Scheduled Castes (SCs) and Scheduled Tribes (STs) in the Lok Sabha and State Legislative Assemblies for another ten years?

Ans
- ✘ 1. 15th Amendment
- ✘ 2. 42nd Amendment
- ✔ 3. 104th Amendment
- ✘ 4. 61st Amendment

Q.33 A person who migrated from Pakistan after 19 July 1948 could become an Indian citizen, only if:

Ans
- ✘ 1. he was registered by an officer of the Dominion of India
- ✘ 2. he was a resident of Pakistan in 1948
- ✘ 3. he took an oath of allegiance
- ✔ 4. he was born in India before 1947

Q.34 Shambhu Maharaj, awarded the Sangeet Natak Akademi Fellowship in 1967, was renowned for his contribution to which of the following Indian art forms?

Ans
- ✘ 1. Carnatic music
- ✘ 2. Bharatanatyam dance
- ✘ 3. Hindustani classical music
- ✔ 4. Kathak dance

Q.35 What is the industrial name for calcium sulphate hemihydrate?

Ans
- ✘ 1. Gypsum
- ✘ 2. Quick lime
- ✔ 3. Plaster of Paris
- ✘ 4. Slaked lime

Q.36 Which of the following is the highest Himalayan peak located in India (excluding POK)?

Ans
- ✘ 1. Dhaulagiri
- ✔ 2. Kanchenjunga
- ✘ 3. Mount Everest
- ✘ 4. Nanga Parbat

Q.37 Which of the following is a good way to organise files in Windows?

Ans
- ✘ 1. Store all files on the desktop
- ✔ 2. Create separate folders for different types of files
- ✘ 3. Keep files with different subjects in one folder
- ✘ 4. Rename all files with random numbers

Q.38 Who was awarded the Major Dhyan Chand Khel Ratna Award 2024 for becoming the youngest World Chess Champion in January 2025?

Ans ✗ 1. Arjun Erigaisi

✗ 2. Nihal Sarin

✗ 3. R Praggnanandhaa

✓ 4. Gukesh D

Q.39 Who was elected as the President of Lebanon in January 2025, ending a two-year vacancy?

Ans ✗ 1. Hassan Diab

✗ 2. Michel Aoun

✓ 3. Joseph Aoun

✗ 4. Saad Hariri

Q.40 In May 2024, the World Health Organization (WHO) prequalified the QDENGA vaccine developed by Takeda Pharmaceuticals. This vaccine is designed to protect against which disease?

Ans ✓ 1. Dengue

✗ 2. Malaria

✗ 3. Chikungunya

✗ 4. Zika

Section : **Mathematics**

Q.1 4 years ago, the age of a father was 33 years more than twice his son's age. After how many years, from now, will he be twice his son's age?

Ans ✓ 1. 29

✗ 2. 28

✗ 3. 34

✗ 4. 25

Q.2 One diagonal and perimeter of a rhombus are 16 cm and 40 cm, respectively. Find the other diagonal.

Ans ✗ 1. 10 cm

✓ 2. 12 cm

✗ 3. 11 cm

✗ 4. 14 cm

Q.3 A woman travels 432 km at 72 km/hr, a second distance of 275 km at 55 km/hr and a third distance of 680 km at 85 km/hr. Find her average speed for the whole journey (in km/hr).

Ans ✗ 1. 76

✗ 2. 80

✗ 3. 66

✓ 4. 73

Q.4 The value of $\sqrt{169} + \sqrt{0.0324} - \sqrt{7.29}$ is _____ .

Ans ✗ 1. 16.76

✗ 2. 4.97

✗ 3. 7.76

✓ 4. 10.48

Q.5 The marks scored by 10 students are given below.

10, 13, 17, 11, 11, 13, 14, 16, 13, 13

The mode of the data is:

Ans ✔ 1. 13

✘ 2. 11

✘ 3. 17

✘ 4. 10

Q.6 In △ABC, BD ⊥ AC at D and ∠DBC = 63°. E is a point on BC such that ∠CAE = 76°. What is the measure of ∠AEB?

Ans ✘ 1. 91°

✔ 2. 103°

✘ 3. 105°

✘ 4. 96°

Q.7 Ayushi bought a toy for ₹461, decorated it at a cost of ₹15, and sold the toy for ₹918. Find the loss or gain percentage.

Ans

✘ 1. $\dfrac{660}{7}\% \ loss$

✘ 2. $\dfrac{650}{7}\% \ loss$

✔ 3. $\dfrac{650}{7}\% \ profit$

✘ 4. $650 \% \ profit$

Q.8 The simple interest on a certain sum for $4\dfrac{5}{9}$ years at the rate of 3.6% per annum is ₹5,453.

What will be the amount payable on the same sum at the rate of 2.7% per annum simple interest in $6\dfrac{2}{9}$ years?

Ans ✘ 1. ₹38,841

✘ 2. ₹38,819

✘ 3. ₹38,828

✔ 4. ₹38,836

Q.9 Find the simple interest (in ₹) if a sum of ₹400 is borrowed for 5.5 years at 8% per annum rate of interest.

Ans ✔ 1. 176

✘ 2. 276

✘ 3. 156

✘ 4. 226

Q.10 The H.C.F. and the L.C.M. of two numbers are 2 and 410, respectively. If one of the numbers is 82, find the other one.

Ans ✘ 1. 54

✘ 2. 93

✔ 3. 10

✘ 4. 11

Q.11 The income of Raman is ₹34,000. He saves 28% of his income. If his income increases by 11% and expenditure increases by 30%, then his savings will:

Ans ✓ 1. decrease by ₹3,604

✗ 2. decrease by ₹5,649

✗ 3. increase by ₹3,644

✗ 4. increase by ₹5,639

Q.12 The value of $\sqrt{169} + \sqrt{0.04} - \sqrt{6.76}$ is _____.

Ans ✗ 1. 9.88

✗ 2. 10.57

✓ 3. 10.6

✗ 4. 14.94

Q.13 By selling an article at $\frac{3}{8}$ of its actual selling price, Nirbhay incurs a loss of 13%.

If he sells it at 70% of its actual selling price, then the profit percentage is:

Ans ✗ 1. 60.5%

✗ 2. 63.3%

✗ 3. 63.5%

✓ 4. 62.4%

Q.14 The sides of a triangle are 72 cm, 97 cm, and 65 cm. What is its area? (in cm^2)

Ans ✗ 1. 2323

✗ 2. 2355

✓ 3. 2340

✗ 4. 2378

Q.15 A wholesaler increases the cost price of an item by 90% while marking it. He then offers a 60% discount on this marked price but finds that he incurs a loss. If the wholesaler wants to achieve no profit and no loss, by what percentage should he change the selling price of the item? (Rounded to one decimal place.)

Ans ✗ 1. 32.1% decrease

✗ 2. 35.7% decrease

✓ 3. 31.6% increase

✗ 4. 34.5% increase

Q.16 The average of first 157 even numbers is

Ans ✗ 1. 158.5

✗ 2. 157.5

✗ 3. 159

✓ 4. 158

Q.17 The H.C.F. and the L.C.M. of two numbers are 28 and 840, respectively. If one of the numbers is 168, find the other one.

Ans ✓ 1. 140

✗ 2. 196

✗ 3. 84

✗ 4. 112

Q.18 An amount of ₹432 is divided among three persons in the ratio of 5 : 14 : 17. The difference between the largest and the smallest shares (in ₹) in the distribution is:

Ans ✔ 1. 144

✘ 2. 62

✘ 3. 178

✘ 4. 132

Q.19 A kurta is marked for ₹750 and sold for ₹660. The rate of discount is:

Ans ✘ 1. 14%

✘ 2. 15%

✔ 3. 12%

✘ 4. 20%

Q.20 Find the mean proportional between 15 and 240.

Ans ✔ 1. 60

✘ 2. 58

✘ 3. 63

✘ 4. 57

Q.21 If $P = \sec\theta + \tan\theta$, then the value of $\dfrac{P^2 + 1}{2P}$ is:

Ans ✘ 1. 1

✘ 2. $\tan\theta$

✘ 3. 0

✔ 4. $\sec\theta$

Q.22 The product of two consecutive natural numbers is 272. The greater of the two numbers is:

Ans ✘ 1. 9

✘ 2. 36

✘ 3. 28

✔ 4. 17

Q.23 Pipe A can fill a tank in 17 hours, pipe B can fill the same tank in 27 hours and pipe C can fill the same tank in 12 hours. The time taken by them to fill the same tank if they operate together is::

Ans

✘ 1. $14\dfrac{191}{329}\ hours$

✘ 2. $13\dfrac{191}{329}\ hours$

✔ 3. $5\dfrac{191}{329}\ hours$

✘ 4. $10\dfrac{191}{329}\ hours$

Q.24 Simplify: $x(3x - 6) + 4(x^2 - 5) + 15$

Ans ✘ 1. $-7x^2 - 6x + 5$

✘ 2. $-7x^2 - 6x - 5$

✘ 3. $7x^2 - 6x + 5$

✔ 4. $7x^2 - 6x - 5$

Q.25 Pipe P can fill $\frac{5}{9}$ part of a tank in 25 hours, and pipe Q can fill $\frac{3}{7}$ part of the same tank in 27 hours.

Both P and Q were kept open for 3 hours, then both were closed. Pipe R alone was then opened and it emptied the water in the tank in 4 hours. Pipes P, Q and R together can fill the empty tank in:

Ans
- ✗ 1. 108 hours
- ✗ 2. 93 hours
- ✓ 3. 105 hours
- ✗ 4. 112 hours

Q.26 ₹13,700 were divided among A, B and C such that 4 times the share of A = 7 times the share of B = 2 times the share of C. Find the share of A.

Ans
- ✗ 1. ₹3,921
- ✓ 2. ₹3,836
- ✗ 3. ₹3,988
- ✗ 4. ₹3,664

Q.27 A man walks to a viewpoint and returns to the starting point by his car maintaining constant speed and thus takes a total time of 7 hours 45 minutes. He would have gained 6 hours by driving both ways. How long would it have taken for him to walk both ways with same walking speed?

Ans
- ✓ 1. 13 hours 45 minutes
- ✗ 2. 14 hours 15 minutes
- ✗ 3. 13 hours 30 minutes
- ✗ 4. 12 hours 45 minutes

Q.28 The LCM of the numbers 2.8 and 0.217 is:

Ans
- ✓ 1. 86.8
- ✗ 2. 8.68
- ✗ 3. 0.868
- ✗ 4. 868

Q.29 Evaluate 34^2.

Ans
- ✗ 1. 1166
- ✗ 2. 1186
- ✓ 3. 1156
- ✗ 4. 1176

Q.30 By how much is 65% of 65 greater than $\frac{3}{5}$ of 45?

Ans
- ✗ 1. 9.25
- ✓ 2. 15.25
- ✗ 3. 13.25
- ✗ 4. 12.25

Section : General Intelligence and Reasoning

Q.1 FJEC is related to LPKI in a certain way based on the English alphabetical order. In the same way, IMHF is related to OSNL. To which of the following is LPKI related, following the same logic?

Ans
- ✗ 1. VROQ
- ✗ 2. RVOQ
- ✓ 3. RVQO
- ✗ 4. VRQO

Q.2 In a certain code language, 'TEAR' is coded as '7165' and 'SEAT' is coded as '5678'. What is the code for 'S' in the given code language?

Ans ✔ 1. 8

✘ 2. 5

✘ 3. 7

✘ 4. 6

Q.3 Samad starts from Point A and drives 15 km towards East. He then takes a left turn, drives 6 km, turns left and drives 12 km. He then takes a left turn and drives 8 km. He takes a final right turn, drives 3 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90° turns only unless specified.)

Ans ✔ 1. 2 km towards North

✘ 2. 4 km towards South

✘ 3. 2 km towards West

✘ 4. 4 km towards North

Q.4 Seven boxes V, W, X, Y, Z, Q and R are kept one over the other but not necessarily in the same order. No box is kept above Z. Only three boxes are kept between Z and W. Only one box is kept between V and R. R is kept immediately above W. Only four boxes are kept between V and X. Q is kept at some place above Y. Which box is kept second below Q?

Ans ✘ 1. Y

✘ 2. R

✘ 3. X

✔ 4. W

Q.5 Refer to the following number and symbol series and answer the question that follows. Counting to be done from left to right only. (Note: All numbers are single digit numbers only).

(Left) 4 7 + $ £ 3 & 8 5 @ 1 Ω # * % 6 2 9 (Right)

How many such numbers are there each of which is immediately preceded by another number and also immediately followed by another number?

Ans ✘ 1. 0

✘ 2. 2

✔ 3. 1

✘ 4. 3

Q.6 Mayank ranked 39th from the top and 11th from the bottom in his class. How many students are there in his class?

Ans ✔ 1. 49

✘ 2. 48

✘ 3. 47

✘ 4. 50

Q.7 What should come in place of the question mark (?) in the given series?

550 555 565 570 580 585 ? 600

Ans ✘ 1. 610

✔ 2. 595

✘ 3. 590

✘ 4. 605

Q.8 Seven boxes P, Q, R, S, X, Y and Z are kept one over the other, but not necessarily in the same order. Only S is kept above X. Only two boxes are kept between X and Z. Only P is kept below R. Q is not kept immediately above Z. How many boxes are kept between Y and P?

Ans ✔ 1. Two

✘ 2. Three

✘ 3. Four

✘ 4. One

Q.9 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. EHC

✔ 2. NQK

✘ 3. YBW

✘ 4. SVQ

Q.10 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which letter-cluster pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

Ans ✘ 1. LQ-NJ

✔ 2. NS-PK

✘ 3. JO-LH

✘ 4. HM-JF

Q.11 Sumit, Jatin, Ramesh, Priya, Kavita and Manoj are sitting in a straight line, facing north. Sumit sits third from the left end. Manoj sits second to the right of Sumit. Jatin sits to the immediate left of Kavita. Priya does not sit at the end. Who sits second to the left of Priya?

Ans ✘ 1. Ramesh

✘ 2. Manoj

✔ 3. Kavita

✘ 4. Sumit

Q.12 What should come in place of the question mark (?) in the given series?

16 28 50 82 124 ?

Ans ✘ 1. 162

✔ 2. 176

✘ 3. 194

✘ 4. 185

Q.13 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. RXT

✘ 2. MSO

✔ 3. FLG

✘ 4. IOK

Q.14 Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:
All mugs are cups.
Some mugs are forks.

Conclusions:
(I): Some cups are forks.
(II): Some forks are mugs.

Ans ✗ 1. Only conclusion I follows.

✓ 2. Both conclusions I and II follow.

✗ 3. Neither conclusion I nor II follow.

✗ 4. Only conclusion II follows.

Q.15 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.

BOAD - OBAD - BADO
DUCK - UDCK - DCKU

Ans ✗ 1. CAME - ACME - AMEC

✗ 2. HEAP - EHAP - PEAH

✓ 3. FEAN - EFAN - FANE

✗ 4. RUSK - RSUK - KSUR

Q.16 A is the sister of H. H is the mother of R. R is the son of M. G is the mother of M. How is A related to M?

Ans ✗ 1. Son's daughter

✗ 2. Son's wife's mother

✓ 3. Wife's sister

✗ 4. Son's wife's sister

Q.17 Each of the digits in the number 4796583 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 ✗ 1. 9

✗ 2. 10

✗ 3. 7

✓ 4. 12

Q.18 What should come in place of the question mark (?) in the given series?

24 ? 45 66 94 129

Ans ✗ 1. 44

✗ 2. 41

✓ 3. 31

✗ 4. 38

Q.19 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) + # 5 3 $ Ω 4 ? 9 1 & % 7 * @ 2 £ 6 8 (Right)

How many such symbols are there, each of which is immediately preceded by a symbol and also immediately followed by an even number?

Ans ✗ 1. None

✗ 2. One

✗ 3. Three

✓ 4. Two

Q.20 Amit started from Point A and travelled 9 km east. He then turned right and travelled 6 km. He then turned right and travelled 7 km. He finally turned right and travelled 6 km to stop at Point E. What is the shortest distance between Point E and Point A? (All turns are 90-degree turns only.)

Ans ✗ 1. 4 km

✗ 2. 3 km

✓ 3. 2 km

✗ 4. 5 km

Q.21 In a certain code language, 'EXAM' is coded as '3579' and 'HAME' is coded as '5327'. What is the code for 'H' in the given code language?

Ans ✓ 1. 2

✗ 2. 7

✗ 3. 5

✗ 4. 3

Q.22 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 to/subtracting from/multiplying with 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(46, 2208, 24)
(4, 192, 24)

Ans ✗ 1. (37, 451, 6)

✗ 2. (7, 245, 17)

✓ 3. (39, 546, 7)

✗ 4. (24, 967, 20)

Q.23 Each of the digits in the number 7231456 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. Four

✗ 2. One

✓ 3. Two

✗ 4. Three

Q.24 What will come in the place of the question mark (?) in the following equation, if '÷' and '−' are interchanged and '×' and '+' are interchanged?
78 × 2 − 2 + 12 ÷ 6 × 5 + 4 ÷ 4 × 24 = ?

Ans ✓ 1. 124

✗ 2. 148

✗ 3. 154

✗ 4. 136

Q.25 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 R. Only three people sit between R and L. I sits second to the right of R. Only two people sit between I and Q. K sits at some place to the right of J but at some place to the left of P.
How many people sit to the right of K?

Ans   ✔ 1. Three

✘ 2. Two

✘ 3. Four

✘ 4. One

Q.26 Select the pair which follows the same pattern as that followed by the two set of pairs given below. Both pairs follow the same pattern.

JUN : HRP
QWJ : OTL

Ans   ✘ 1. JTE : HQH

✘ 2. UTM : SRO

✘ 3. HXB : FUE

✔ 4. GSK : EPM

Q.27 What will come in the place of the question mark (?) in the following equation, if '+' and '÷' are interchanged, and '−' and '×' are interchanged?

27 × 11 − 3 ÷ 56 + 2 = ?

Ans   ✔ 1. 22

✘ 2. 41

✘ 3. 34

✘ 4. 26

Q.28 Which of the following letter-clusters will replace the question mark (?) in the given series to make it logically complete?

OIX 28 MLT 17 ? IRL -5 GUH -16

Ans   ✔ 1. KOP 6

✘ 2. KOQ 8

✘ 3. KNP 8

✘ 4. KNO 6

Q.29 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

ZXW 21 USR 20 PNM 18 KIH 15 ?

Ans   ✘ 1. FEC 11

✔ 2. FDC 11

✘ 3. GDC 10

✘ 4. FED 10

Q.30 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.

Statements:
All pins are bugs.
All pins are lamps.

Conclusions:
(I): Some bugs are lamps.
(II): All lamps are pins.

Ans

✗ 1. Only conclusion (II) follows.

✗ 2. Both conclusions (I) and (II) follow.

✗ 3. Neither conclusion (I) nor (II) follows.

✓ 4. Only conclusion (I) follows.