# रेलवे भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS

## सीईएन - 07/2025 - एनटीपीसी पूर्व-स्नातक स्तर - CEN - 07/2025 - NTPC UNDER GRADUATE LEVEL

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|---|---|
| Test Date | 08/05/2026 |
| Test Time | 12:45 PM - 2:15 PM |
| Subject | RRB NTPC UnderGraduate 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 : **Mathematics**

**Q.1** If $x = \sqrt{225} + \sqrt{484}$, what is the value of $x^2 - [(\sqrt{225})^2 + (32)^2]$?

**Ans**
- ✗ A. 0
- ✗ B. 484
- ✓ C. 120
- ✗ D. 100

**Q.2** A park is designed in the shape of a right-angled triangle, where the two shorter sides measure 13 m and 84 m. A circular track with a uniform width of 2 m is constructed such that its outer boundary coincides with the circumcircle of the triangular park. Determine the perimeter of the inner boundary of this circular track.

**Ans**
- ✗ A. $82\pi$ m
- ✗ B. $85\pi$ m
- ✓ C. $81\pi$ m
- ✗ D. $89\pi$ m

**Q.3** Ram has ₹1000 in the denomination of ₹10, ₹20 and ₹5 notes. If the number of ₹10 notes is 16 more than that of ₹20 notes and the number of ₹5 notes is twice the number of ₹20 notes, find the total number of notes that Ram has.

**Ans**
- ✗ A. 120
- ✗ B. 90
- ✓ C. 100
- ✗ D. 80

**Q.4** Pooja gets a discount of 17% on a dryer whose marked price is ₹2,000. Since she pays by credit card, she gets an additional 10% discount. How much does she pay (in ₹)?

**Ans**
- ✓ A. 1,494
- ✗ B. 1,495
- ✗ C. 1,491
- ✗ D. 1,493

Q.5 At present, a father is 30 years older than his son. In 12 years, the father will be three times as old as his son. What is the present age of the son?

Ans
- ✗ A. 5 years
- ✓ B. 3 years
- ✗ C. 4 years
- ✗ D. 6 years

Q.6 The difference between a discount of 35% and two successive discounts of 20% and 15% on a certain marked price is ₹70. Find the marked price (rounded off to the nearest integer).

Ans
- ✗ A. ₹2,367
- ✗ B. ₹2,433
- ✗ C. ₹2,467
- ✓ D. ₹2,333

Q.7 Find the value of m which satisfies

$$\left(\frac{19}{10}\right)^{7} \times \left(\frac{10}{19}\right)^{6} \times \left(\frac{19}{10}\right)^{10} = \left(\frac{10}{19}\right)^{6m+18}.$$

Ans
- ✓ A. $-\frac{29}{6}$
- ✗ B. $-\frac{27}{6}$
- ✗ C. $-\frac{38}{6}$
- ✗ D. $-\frac{20}{6}$

Q.8 Two taps can fill a cistern in 4 hours and 8 hours, respectively. A third tap can empty it in 4 hours. How long (in hours) will it take to fill one-fourth of the empty cistern if all the taps are opened together?

Ans
- ✗ A. 4
- ✗ B. 6
- ✓ C. 2
- ✗ D. 8

Q.9 Evaluate $20^3 + (-9)^3 + (-11)^3$

Ans
- ✓ A. 5940
- ✗ B. 6015
- ✗ C. 5992
- ✗ D. 5934

Q.10 Yogesh invested a certain sum of money at 10% per annum. After 2 years, he received ₹147 as compound interest, compounded annually. Find the corresponding simple interest (in ₹) for 2 years at the same rate.

Ans
- ✗ A. 135
- ✗ B. 130
- ✓ C. 140
- ✗ D. 125

**Q.11** A sum of ₹25,000 is invested at 2% per annum compounded annually. Find the compound interest after 2 years.

**Ans**

✔ A. ₹1,010

✘ B. ₹1,050

✘ C. ₹1,130

✘ D. ₹1,230

**Q.12** Find the measure of the unknown interior angle in an irregular hexagon with angles 140°, 80°, 145°, 155°, and 100°.

**Ans**

✘ A. 105°

✔ B. 100°

✘ C. 110°

✘ D. 120°

**Q.13** The enrolment of students in an institution increased by 10% in April compared to the number of students in March and then decreased by 5%, resulting in 1045 students in June. Find the number of students in March.

**Ans**

✘ A. 1050

✘ B. 1085

✔ C. 1000

✘ D. 900

**Q.14** If 9 workers can build a wall in 12 days, how many days will 6 workers take to build the same wall, assuming they work at the same rate?

**Ans**

✘ A. 16

✔ B. 18

✘ C. 17

✘ D. 15

**Q.15** The value of $\frac{(2.3)^3+(1.5)^3+(1.2)^3-3\times2.3\times1.5\times1.2}{(2.3)^2+(1.5)^2+(1.2)^2-2.3\times1.5-1.5\times1.2-1.2\times2.3}$ is equal to:

**Ans**

✔ A. 5

✘ B. 1

✘ C. 4

✘ D. 2

**Q.16** If the third proportional to 4 and 6 is used as the base of a rectangle, and the first number (4) is its height, what is the area of the rectangle?

**Ans**

✘ A. 30 unit2

✘ B. 48 unit2

✘ C. 24 unit2

✔ D. 36 unit2

**Q.17** Three numbers are in the ratio 17 : 13 : 8, and their LCM is 7072. Their HCF is:

**Ans**

✘ A. 12

✘ B. 3

✔ C. 4

✘ D. 23

**Q.18** In a science experiment, chemicals X, Y, and Z are mixed in the ratio 5:2:3. If the total weight of the mixture is 100 grams, how much of chemical Y is present?

**Ans**

✔ A. 20 grams

✘ B. 30 grams

✘ C. 50 grams

✘ D. 10 grams

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**Q.19** The angle of elevation of the top of a tree from a point on the ground is 30°. After moving 10 m towards the tree, the angle of elevation becomes 60°. Find the height of the tree.

**Ans**

✘ A. $6\sqrt{3}$ m

✘ B. $4\sqrt{3}$ m

✘ C. $3\sqrt{3}$ m

✔ D. $5\sqrt{3}$ m

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**Q.20** A man is walking at 4 km/hr. A 180 m long train crosses him in 12 seconds while coming from the opposite direction. What is the speed of the train (in km/hr)?

**Ans**

✘ A. 61

✔ B. 50

✘ C. 32

✘ D. 45

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**Q.21** A keg is fitted with three taps A, B and C. If opened together, all the three taps will drain the full keg in $1\frac{1}{2}$ minutes. Taps A and B together take 3 minutes to drain the keg while taps B and C together take $4\frac{1}{2}$ minutes to drain it. How long (in minutes) taps A and C together take to drain the keg?

**Ans**

✘ A. $\frac{4}{9}$

✘ B. $\frac{5}{7}$

✔ C. $\frac{9}{7}$

✘ D. $\frac{4}{7}$

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**Q.22** What is the arithmetic mean of the dataset {12, 25, 37, 48, 56, 61, 73, 85, 92, 104}?

**Ans**

✔ A. 59.3

✘ B. 56.3

✘ C. 57.3

✘ D. 58.3

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**Q.23** A shopkeeper offers the following schemes on toys of the same marked price.
(A) Successive discounts of 35% and 4% on any number of toys bought.
(B) Successive discounts of 45%, 46% and 50% on any number of toys bought.
(C) 15% discount on the first 3 toys and 5% discount on each toy thereon.
(D) 2 toys free of cost on buying 9 toys.
A customer wants to buy 9 toys. Which of the above schemes is the least beneficial to her?

**Ans**

✔ A. C

✘ B. D

✘ C. A

✘ D. B

Q.24 Two solid hemispheres are joined together to make a sphere. The total surface area of solids reduced by approximately ___%.

Ans
- ✔ A. 33.33
- ✘ B. 66.67
- ✘ C. 50
- ✘ D. 25

Q.25 Two trains, A and B, start simultaneously from stations Delhi and Mumbai respectively towards each other on parallel tracks. After meeting, train A takes 16 hours to reach Mumbai, and train B takes 9 hours to reach Delhi. If train A's speed is 60 km/h, what is the length of train B (in meters), given that it crosses a pole in 18 seconds?

Ans
- ✘ A. 420
- ✔ B. 400
- ✘ C. 300
- ✘ D. 280

Q.26 The expenditures of R are 65% of his salary. If his salary increased by 10% and his savings are ₹3,150 more than previous savings, his expenditures are now 60% of his salary. His present salary is ₹_____.

Ans
- ✘ A. 39,000
- ✘ B. 37,500
- ✔ C. 38,500
- ✘ D. 35,000

Q.27 The 5-digit number 7a35b is divisible by 45, where a and b are positive integers. What is the value of (a + b)?

Ans
- ✘ A. 7
- ✘ B. 5
- ✔ C. 12
- ✘ D. 14

Q.28 Lekhraj sells an article at a profit of 25%. If the cost price is increased by 20% and the selling price is reduced by 10%, what percentage loss will Lekhraj incur?

Ans
- ✔ A. 6.25%
- ✘ B. 7.5%
- ✘ C. 6.5%
- ✘ D. 7.25%

Q.29 The average of 5 consecutive integers is 10. What is the smallest integer?

Ans
- ✘ A. 9
- ✘ B. 6
- ✔ C. 8
- ✘ D. 7

Q.30 If x is the mean proportional between (a+b) and (a-b), then find the value of x.

Ans
- ✘ A. $\sqrt{a-b}$
- ✘ B. $\sqrt{a^2+b^2}$
- ✘ C. $\sqrt{a+b}$
- ✔ D. $\sqrt{a^2-b^2}$

Section : **General Awareness**

Q.31 பின்வருவனவற்றுள், இந்தியாவில் மிகவும் பரவலாகப் பயன்படுத்தப்படும் நீர்ப்பாசன முறை எது?

Ans
- ✔ A. மேற்பரப்பு நீர்ப்பாசனம் (Surface irrigation)
- ✘ B. தெளிப்பு நீர்ப்பாசனம்
- ✘ C. சொட்டு நீர்ப்பாசனம்
- ✘ D. நிலத்தடி நீர்ப்பாசனம் (Subsurface irrigation)

Q.32 Which category of beneficiaries is eligible for ₹1 lakh under Telangana's Revanth Anna ka Sahara-Miskeen la Kosam scheme launched in September 2025?

Ans
- ✔ A. Economically weak Muslim families
- ✘ B. Minority teachers in private institutions
- ✘ C. Overseas migrant workers from Telangana
- ✘ D. Tribal self-help groups

Q.33 The fibrous root system, in which the primary root is short-lived and replaced by numerous adventitious roots, is a characteristic feature of which group of plants?

Ans
- ✘ A. Dicotyledonous
- ✔ B. Monocotyledonous
- ✘ C. Gymnosperms
- ✘ D. Pteridophytes

Q.34 Which memory is fastest and located very close to the CPU?

Ans
- ✘ A. Hard Disk
- ✘ B. CD-ROM
- ✔ C. Cache Memory
- ✘ D. Pen Drive

Q.35 'Effect of Proclamation of Emergency' is explicitly provided in which of the following provisions of the Constitution of India?

Ans
- ✔ A. Article 353
- ✘ B. Article 256
- ✘ C. Article 350
- ✘ D. Article 252

Q.36 Which of the following regions, ruled by the Maukharies, gradually replaced Pataliputra as a political centre of North India?

Ans
- ✘ A. Patna
- ✔ B. Kannauj
- ✘ C. Allahabad
- ✘ D. Thanesar

Q.37 Which of the following is an example of General-Purpose Software?

Ans
- ✘ A. School Management Software
- ✘ B. Accounting Software made for a company
- ✘ C. A Customized Website
- ✔ D. LibreOffice Calc

Q.38 According to Joule's law of heating, heat produced in a resistor is expressed by which relation?

Ans
- ✔ A. $H = I^2Rt$
- ✘ B. $H = IR$
- ✘ C. $H = Vt$
- ✘ D. $H = V/I$

Q.39 Which of the following is NOT a prominent language of the Indo-Aryan family?

Ans
- ✔ A. Kurukh
- ✘ B. Urdu
- ✘ C. Bengali
- ✘ D. Hindi

Q.40 'The Mango Season' is a book written by _____ and is a story of an Indian woman of modern India.

Ans
- ✔ A. Amulya Malladi
- ✘ B. Sara Desai
- ✘ C. Sandhya Menon
- ✘ D. Alka Joshi

Q.41 Krishna Basin mainly extends over which of the following groups of states?

Ans
- ✘ A. Maharashtra, Gujarat and Madhya Pradesh
- ✔ B. Maharashtra, Karnataka and Andhra Pradesh
- ✘ C. Maharashtra, Odisha and Karnataka
- ✘ D. Maharashtra, Madhya Pradesh and Chhattisgarh

Q.42 Which of the following types of weathering is common in areas with large temperature differences between day and night?

Ans
- ✘ A. Solution
- ✘ B. Oxidation
- ✔ C. Exfoliation
- ✘ D. Carbonation

Q.43 The Goa Carnival is primarily associated with which of the following cultural or religious traditions?

Ans
- ✘ A. Buddhist tradition
- ✘ B. Persian traditions
- ✘ C. Jewish traditions
- ✔ D. Christian tradition

Q.44 Which of the following was the first electro-mechanical computer?

Ans
- ✔ A. Mark I
- ✘ B. EDVAC
- ✘ C. UNIVAC
- ✘ D. ENIAC

Q.45 ஒரு மருத்துவர் ஒரு நோயாளிக்கு P = −2.5 D திறன் கொண்ட ஒரு லென்ஸைப் பரிந்துரைக்கிறார். இந்த லென்ஸ் _____ ஆகும்.

Ans
- ✘ A. தூரப்பார்வையை சரிசெய்யப் பயன்படுத்தப்படும் ஒரு குழி லென்சு.
- ✘ B. தூரப்பார்வையை சரிசெய்யப் பயன்படுத்தப்படும் ஒரு குவி லென்சு.
- ✘ C. கிட்டப்பார்வையை சரிசெய்யப் பயன்படுத்தப்படும் ஒரு குவி லென்சு.
- ✔ D. கிட்டப்பார்வையை சரிசெய்யப் பயன்படுத்தப்படும் ஒரு குழி லென்சு.

Q.46 பின்வருவனவற்றில் எது யூட்ரோஃபிகேஷனை சரியாக விவரிக்கிறது?

Ans
- ✔ A. நீர்நிலைகளில் ஊட்டச்சத்துக்களின் செறிவூட்டத்தினால் ஏற்படும் அதிகப்படியான பாசிப் பெருக்கம்
- ✘ B. அதிக ட்ரோபிக் அளவுகளில் மக்காத வேதிப்பொருட்கள் குவிதல்
- ✘ C. பெருங்கடல்களில் குளிர்ந்த மற்றும் வெதுவெதுப்பான நீரோட்டங்கள் கலத்தல்
- ✘ D. கரைந்த தாதுக்களால் அமில நீரை நடுநிலையாக்குதல்

**Q.47** Which of the following country will host the 2025 United Nations Ocean Conference?

**Ans**

✔ A. France

✘ B. Barbados

✘ C. Portugal

✘ D. South Africa

**Q.48** The 3rd Trilateral Consultations between India, Iran and Armenia was held at which place in September 2025?

**Ans**

✘ A. New Delhi

✘ B. Yerevan

✔ C. Tehran

✘ D. Mumbai

**Q.49** In December 2025, which of the following companies introduced "Aantriva", an AI-enabled platform to improve agri-food supply-chain visibility?

**Ans**

✘ A. Syngenta

✘ B. Alliance Broadband Services Pvt. Ltd.

✘ C. Tech Mahindra

✔ D. Ayekart

**Q.50** On 16 September 2025, **World Ozone Day** was observed under which theme?

**Ans**

✔ A. From Science to Global Action

✘ B. Global Cooperation Protecting Life on Earth

✘ C. Ozone for Life

✘ D. Montreal Protocol: Our Shield, Our Future

**Q.51** The winner of the Nobel Prize in Literature for 2025, author László Krasznahorkai, belongs to which country?

**Ans**

✘ A. Romania

✘ B. Serbia

✘ C. Slovakia

✔ D. Hungary

**Q.52** Which deity was worshipped as the chief female deity in Harappan culture?

**Ans**

✔ A. Mother Goddess

✘ B. Durga

✘ C. Lakshmi

✘ D. Saraswati

**Q.53** Which of the following subjects was addressed by the 42nd Constitutional Amendment, granting Parliament the authority to establish tribunals?

**Ans**

✘ A. Judicial review of laws made by high court

✔ B. Service conditions of public servants

✘ C. Religious disputes

✘ D. Election disputes of states only

**Q.54** How did Aurobindo Ghosh contribute to the extremist phase of the Indian national movement?

**Ans**

✘ A. Leading peasant movements focused on agrarian tax reduction campaigns

✘ B. Promoting constitutional agitation through petitions and legislative reforms

✔ C. Promoting passive resistance and boycott by linking nationalism with spiritual ideals

✘ D. Organising revolutionary activities based on socialist and labour ideologies

Q.55 What is the theme of the 18th Pravasi Bharatiya Divas 2025?

Ans
- ✗ A. Diaspora and Digital India
- ✓ B. Diaspora's contribution to a Viksit Bharat
- ✗ C. Connecting the Indian Diaspora
- ✗ D. Global Indians for Atmanirbhar Bharat

Q.56 What is the function of the keyboard shortcut Alt + F10?

Ans
- ✗ A. Closes the document
- ✗ B. Maximizes the current window
- ✗ C. Opens the Help menu
- ✓ D. Selects the active tab on the Ribbon and shows access keys

Q.57 Which Article of the Indian Constitution empowers the Parliament to make grants to the States which are in need of financial assistance?

Ans
- ✗ A. Article 285
- ✓ B. Article 275
- ✗ C. Article 265
- ✗ D. Article 255

Q.58 What is the primary goal of the Energy Conservation Act (EC Act) of 2001, enacted by the Government of India?

Ans
- ✓ A. To reduce energy intensity in the Indian economy
- ✗ B. To increase CO2 emissions
- ✗ C. To promote renewable energy sources
- ✗ D. To encourage the use of hydrocarbons

Q.59 Which of the following economic models formed the basis of the Second Five-Year Plan?

Ans
- ✗ A. Market-led export model
- ✗ B. Neo-classical minimal-state model
- ✗ C. Agrarian cooperative model
- ✓ D. Mahalanobis heavy-industry model

Q.60 During which of the following revolutions in India did planned investment in horticulture become highly productive, leading to the emergence of the sector as a sustainable livelihood option?

Ans
- ✗ A. White revolution
- ✓ B. Golden revolution
- ✗ C. Green revolution
- ✗ D. Blue revolution

Q.61 In the process of ecological succession, the entire sequence of communities that successively change in a given area are called _____.

Ans
- ✗ A. Invasion
- ✓ B. Sere
- ✗ C. Climax
- ✗ D. Ecesis

Q.62 Gopal Krishan Gokhale went to England in 1897 to give evidence before which commission?

Ans
- ✗ A. Hunter Commission
- ✗ B. Raleigh Commission
- ✓ C. Welby Commission
- ✗ D. Fraser Commission

Q.63 Which of the following was NOT recommended by the 73rd Indian Constitutional Amendment Act?

Ans
- ✗ A. Establishment of a three-tier structure
- ✗ B. Establishment of State Finance Commissions
- ✗ C. Establishment of Zila panchayat at district level
- ✓ D. Establishment of Finance Commission of India

Q.64 Which of the following countries has one of the highest population densities?

Ans
- ✗ A. Russia
- ✗ B. Canada
- ✗ C. Australia
- ✓ D. India

Q.65 பின்வருபவர்களில் யார் இந்திய தேசிய காங்கிரஸின் ஒரு முக்கிய மிதவாதத் தலைவர்ஆவார்?

Ans
- ✓ A. ஃபெரோஷா மேத்தா
- ✗ B. பகத் சிங்
- ✗ C. சுபாஷ் சந்திர போஸ்
- ✗ D. பால கங்காதர திலகர்

Q.66 As per RTI Rules 2012, a person below poverty line is liable to pay what amount as application fee to file an RTI?

Ans
- ✓ A. No payment
- ✗ B. ₹2
- ✗ C. ₹10
- ✗ D. ₹5

Q.67 What was the impact of the 1990s' reforms on India's economic growth?

Ans
- ✗ A. They had no significant impact.
- ✗ B. They resulted in economic stagnation.
- ✗ C. They caused economic instability.
- ✓ D. They led to more sustainable growth.

Q.68 Which international health day was celebrated on November 14, 2025?

Ans
- ✗ A. World Malaria Day
- ✗ B. World Hypertension Day
- ✓ C. World Diabetes Day
- ✗ D. World Health Day

Q.69 Which of the following dance forms originated in the temples of Odisha and often depicts the divine love of Radha and Krishna?

Ans
- ✓ A. Odissi
- ✗ B. Karam
- ✗ C. Ghumura dance
- ✗ D. Dalkhai

Q.70 Which community lost its constitutional provision of nominated representation in legislatures through the 104th Amendment Act?

Ans
✗ A. Jains
✗ B. Scheduled Castes
✗ C. Scheduled Tribes
✓ D. Anglo-Indians

Section : **General Intelligence and Reasoning**

Q.71 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

HDK 10, LIO 15, PNS 20, TSW 25, ?

Ans
✗ A. XYB 30
✗ B. YYB 30
✗ C. YXA 28
✓ D. XXA 30

Q.72 Seven people, L, V, H, D, E, F and T, are sitting in a row, facing north.
Only four people sit to the right of D. V sits fourth from the left end. E is the immediate neighbour of H and T. F sits third to the left of T.
How many people sit between L and H?

Ans
✓ A. Five
✗ B. Three
✗ C. Two
✗ D. Four

Q.73 Select the option that represents the correct order of the given words as they would appear in an English dictionary.
1. Mistake
2. Mild
3. Mist
4. Migrate
5. Milk

Ans
✓ A. 4, 2, 5, 3, 1
✗ B. 5, 3, 1, 2, 4
✗ C. 4, 2, 1, 5, 3
✗ D. 2, 3, 5, 4, 1

Q.74 In a certain code language,
A % B means 'A is the father of B',
A € B means 'A is the wife of B',
A = B means 'A is the brother of B', and
A ? B means 'A is the daughter of B'.
Based on the above, how is B related to X if 'B = C ? O % P € X'?

Ans
✗ A. Brother
✗ B. Wife's father
✓ C. Wife's brother
✗ D. Father

Q.75 In a certain code language, 'PINS' is coded as '3247' and 'HIPS' is coded as '4627'. What is the code for 'H' in the given code language?

Ans
✓ A. 6
✗ B. 4
✗ C. 2
✗ D. 7

**Q.76** 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.
(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 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.)

54, 110
56, 114

**Ans**
- ✔ A. 62, 126
- ✘ B. 58, 120
- ✘ C. 45, 90
- ✘ D. 48, 96

**Q.77** Refer to the following series and answer the question. (Counting to be done from left to right only.) (All numbers are single-digit numbers only.)
(Left) 9 7 6 4 3 5 7 6 4 6 7 6 9 8 7 7 6 6 7 6 5 7 6 8 7 5 6 (Right)
How many such even digits are there, each of which is immediately preceded by a perfect square and immediately followed by an even digit? (NOTE: 1 is also a perfect square)

**Ans**
- ✘ A. One
- ✘ B. Three
- ✘ C. Two
- ✔ D. None

**Q.78** 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 is the one that DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.)

**Ans**
- ✔ A. OKM
- ✘ B. UQV
- ✘ C. RNS
- ✘ D. LHM

**Q.79** 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.
TREK - RTEK - KRTE
MAPS - AMPS - SAMP

**Ans**
- ✘ A. MANY - AMNY - YANM
- ✘ B. OPEN - OEPN - NEPO
- ✘ C. SIDE - ISDE - IDES
- ✔ D. WISE - IWSE - EIWS

**Q.80** Each letter in the word LANGUID is arranged in the English alphabetical order. How many letters are there in the English alphabetical order between the letter which is third from the left and the one which is third from the right in the new letter cluster thus formed?

**Ans**
- ✘ A. 2
- ✘ B. 6
- ✘ C. 5
- ✔ D. 4

Q.81 Based on the alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group?
(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter cluster.)

Ans
✗ A. EGF
✗ B. BDC
✓ C. VYW
✗ D. HJI

Q.82 If 1 is added to each odd digit and 1 is subtracted from each even digit in the number 47321568, which of the following digits will be first from the left in the new number thus formed?

Ans
✗ A. 5
✗ B. 8
✓ C. 3
✗ D. 7

Q.83 What should come in place of the question mark (?) in the given series to make it logically complete?

ON35, MP44, KR53, ?

Ans
✗ A. JT65
✗ B. IU63
✗ C. JU62
✓ D. IT62

Q.84 In a certain code language, 'unit flash zebra' is coded as ' mi de cz' and 'zebra dance king' is coded as 'de uv id'. How is 'zebra' coded in the given language?

Ans
✗ A. mi
✗ B. cz
✗ C. uv
✓ D. de

Q.85 What should come in place of the '?' in the given series?

10 13 22 41 66 101 ?

Ans
✗ A. 164
✗ B. 124
✓ C. 142
✗ D. 146

Q.86 HLJN is related to JNLP in a certain way based on the English alphabetical order. In the same way, EIGK is related to GKIM. To which of the following is FJHL related, following the same logic?

Ans
✗ A. HMIN
✗ B. HLIN
✓ C. HLJN
✗ D. HKIN

Q.87 Seven boxes I, J, K, M, N, P and Q are kept one over the other but not necessarily in the same order. Only three boxes are kept between box K and box P. Only one box is kept between box I and box P, where box I is kept at the topmost position. Box N is kept immediately above box Q. Only two boxes are kept between box N and box M. Which box is kept fourth from the top?

Ans
- ✗ A. N
- ✓ B. J
- ✗ C. P
- ✗ D. Q

Q.88 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group?
(Note: The odd man out is not based on the number of consonants/vowels or their position in the letter cluster.)

Ans
- ✗ A. LMN
- ✗ B. JKL
- ✓ C. BDD
- ✗ D. FGH

Q.89 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).

**Statements:**
All chairs are bats.
No bat is a hat.

**Conclusions:**
(I) No chair is a hat.
(II) Some hats are bats.

Ans
- ✗ A. Both conclusions (I) and (II) follow
- ✓ B. Only conclusion (I) follows
- ✗ C. Only conclusion (II) follows
- ✗ D. Neither conclusion (I) nor (II) follows

Q.90 Jay ranked $12^{th}$ from the bottom and $9^{th}$ from the top in his class. How many students are there in his class?

Ans
- ✗ A. 19
- ✓ B. 20
- ✗ C. 17
- ✗ D. 18

Q.91 What should come in place of the '?' in the given series?

28 12 10 13 24 ?

Ans
- ✗ A. 70
- ✗ B. 60
- ✗ C. 65
- ✓ D. 58

Q.92 **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 clouds are water. Some water is vapor.**
**Conclusions:**
**(I) Some clouds are vapor.**
**(II) Some vapor is water.**

Ans
- ✔ A. Only conclusion (II) follows
- ✘ B. Both conclusions (I) and (II) follow
- ✘ C. Neither conclusion (I) nor (II) follows
- ✘ D. Only conclusion (I) follows

Q.93 **Akshay starts from Point A and drives 12 km towards the north. He then takes a right turn, drives 15 km, turns right and drives 17 km. He then takes a right turn and drives 18 km. He takes a final right turn, drives 5 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-degree turns only unless specified.)**

Ans
- ✘ A. 2 km to the east
- ✘ B. 5 km to the west
- ✘ C. 4 km to the west
- ✔ D. 3 km to the east

Q.94 **What will come in place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged?**

**805 ÷ 2 + 26 − 1203 × 3 = ?**

Ans
- ✘ A. 1598
- ✔ B. 1985
- ✘ C. 1895
- ✘ D. 1588

Q.95 **Seven people F, G, H, L, M, O and Q are sitting around a circular table, facing the centre of the table. Only one person sits between Q and L when counted from the right of Q. Only one person sits between L and M when counted from the left of M. Only one person sits between Q and G when counted from the right of G. Only two people sit between H and M when counted from the left of M. Only one person sits between F and G when counted from the right of F. Who sits to the immediate right and left of O, respectively?**

Ans
- ✔ A. Q and G
- ✘ B. G and F
- ✘ C. Q and L
- ✘ D. F and L

Q.96 **If '+' means '−', '−' means '×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?**

**18 − 3 ÷ 9 + 15 × 3 = ?**

Ans
- ✘ A. 49
- ✘ B. 50
- ✔ C. 58
- ✘ D. 57

Q.97 In a certain code language,
'A @ B' means 'A is the mother of B',
'A & B' means 'A is the husband of B',
'A # B' means 'A is the father of B',
'A % B' means 'A is the son of B' and
'A * B' means 'A is the daughter of B'.

If G @ K & V * P # W % J, then how is J related to K?

Ans
- ✔ A. Wife's mother
- ✘ B. Daughter
- ✘ C. Mother
- ✘ D. Wife's sister

Q.98 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

RN-TP-VY
PL-RN-TW

Ans
- ✔ A. NJ-PL-RU
- ✘ B. MJ-PK-RV
- ✘ C. MJ-PL-RV
- ✘ D. NJ-PL-RV

Q.99 What should come in place of ? in the given series based on the English alphabetical order?
WAX BFC GKH LPM ?

Ans
- ✘ A. QVQ
- ✘ B. QRT
- ✔ C. QUR
- ✘ D. QTQ

Q.100 Seven boxes F, A, C, T, O, R and S are kept one over the other but not necessarily in the same order. Only two boxes are kept below A. Only three boxes are kept between T and A. Only one box is kept between S and R. R is kept immediately above A. Only four boxes are kept between S and F. O is kept at someplace above C. How many boxes are kept below O?

Ans
- ✘ A. Two
- ✘ B. One
- ✔ C. Four
- ✘ D. Three

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