



रेल भर्ती बोर्ड / RAILWAY RECRUITMENT BOARDS
सी ई एन आर आर बी - ०२/२०२४ - CEN RRB - 02/2024



Test Date	26/12/2024
Test Time	12:45 PM - 2:15 PM
Subject	RRB Technicians Grade III

*** 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 : RRB Technicians Grade III

Q.1 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. SDF
 - ☐ 2. QWC
 - ☐ 3. IOU
 - ☐ 4. GMS

Q.2 Refer to the given series and answer the question that follows (all numbers are single-digit numbers only, and all counting is to be done from left to right).

(Left) 6 8 9 4 4 8 6 5 3 5 1 7 5 8 6 5 8 9 7 3 4 7 0 1 6 8 7 4 5 4 (Right)

How many such even digits are there, each of which is immediately preceded by an odd digit and also immediately followed by an even digit?

- Ans**
- ☐ 1. 4
 - ☐ 2. 0
 - ☒ 3. 3
 - ☐ 4. 6

Q.3 Select the correct option related to the function of auxin in plants.

- Ans**
- ☐ 1. Make plants insect resistant
 - ☐ 2. Induce flowering
 - ☒ 3. Helps the cells to grow longer
 - ☐ 4. Increases stem width

Q.4 On 3rd October 2024, the Union Cabinet decided to merge all Central schemes in the agriculture sector into how many new schemes?

- Ans**
- ☐ 1. Five
 - ☐ 2. Three
 - ☐ 3. Four
 - ☒ 4. Two

Q.5 Which of the following statements is/are INCORRECT related to excretion in human being?

(i) In human beings, kidney is located in the thoracic region.

(ii) Urine is stored in the urinary bladder.

(iii) CO_2 is removed from the blood into the lungs.

Ans ☒ 1. Only (i) and (iii)

☒ 2. (i), (ii) and (iii)

☒ 3. Only (i)

☒ 4. Only (i) and (ii)

Q.6 A pair of parallel lines is intersected by a transversal such that $\angle 1$ and $\angle 2$ form a pair of interior angles on the same side of the transversal. If $m\angle 1 = 125^\circ$, what is the measure of $\angle 2$?

Ans ☒ 1. 55°

☒ 2. 145°

☒ 3. 115°

☒ 4. 45°

Q.7 In July 2024, which organisation published the SDG India Index 2023-24 report?

Ans ☒ 1. The Energy and Resources Institute

☒ 2. Tropical Forest Research Institute

☒ 3. Greenpeace India

☒ 4. NITI Aayog

Q.8 200 m ల పొడవు గల రైలు, 72 km/h వేగంతో కదులుతూ, అదే దిశలో 36 km/h వేగంతో కదులుతున్న 300 m ల పొడవైన మరో రైలును పూర్తిగా దాటడానికి ఎంత సమయం పడుతుంది?

Ans ☒ 1. 25 sec

☒ 2. 100 sec

☒ 3. 55 sec

☒ 4. 50 sec

Q.9 Pranit starts from Point A and drives 27 km towards West. He then takes a left turn, drives 17 km, turns left and drives 14 km. He then takes a left turn and drives 10 km. He takes a final right turn, drives 13 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 otherwise specified.)

Ans ☒ 1. 7 km towards North

☒ 2. 5 km towards North

☒ 3. 5 km towards South

☒ 4. 7 km towards South

Q.10 The rate of diffusion of liquids is higher than that of solids because:

Ans ☒ 1. in the liquid state, particles only move freely and do not have greater space between each other

☒ 2. in the liquid state, particles move freely and have greater space between each other

☒ 3. in the liquid state, particles do not move freely, but have greater space between each other

☒ 4. in the liquid state, particles do not move freely and do not have greater space between each other

Q.11 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements.

Statements:

Some lakes are rivers.

Some rivers are ponds.

Conclusions:

(I) Some lakes are ponds.

(II) Some ponds are not rivers.

- Ans**
- ☐ 1. Both conclusions I and II follow
 - ☒ 2. Neither conclusion I nor II follows
 - ☐ 3. Only conclusion II follows
 - ☐ 4. Only conclusion I follows

Q.12 Rodney has invested ₹15,000 at a rate of 8% p.a. for 1 year on compound interest, compounded half-yearly. The amount received by him will be:

- Ans**
- ☐ 1. ₹15,840
 - ☒ 2. ₹16,224
 - ☐ 3. ₹16,354
 - ☐ 4. ₹15,960

Q.13 Simplify the given expression.

$$5 - [4 - \{3 - (3 - 3 - 6)\}]$$

- Ans**
- ☐ 1. 6
 - ☐ 2. 4
 - ☒ 3. 10
 - ☐ 4. 0

Q.14 What is the calculated molecular mass of oxygen?

- Ans**
- ☒ 1. 32
 - ☐ 2. 30
 - ☐ 3. 26
 - ☐ 4. 28

Q.15 During the decomposition reaction of lead nitrate, the observed brown colour fumes are of which gas?

- Ans**
- ☐ 1. Hydrogen gas
 - ☐ 2. Nitrogen gas
 - ☒ 3. Nitrogen dioxide gas
 - ☐ 4. Ozone gas

Q.16 If 63 chocolates are to be divided between A and B in the ratio 4 : 5, then how many chocolates will B get?

- Ans**
- ☐ 1. 28
 - ☒ 2. 35
 - ☐ 3. 27
 - ☐ 4. 49

Q.17 Which of the following energies reflect mechanical energy when combined?

- Ans
- ☒ 1. Potential energy and kinetic energy
 - ☐ 2. Heat energy and light energy
 - ☐ 3. Light energy and chemical energy
 - ☐ 4. Chemical energy and electrical energy

Q.18 The HCF of 1248 and 2456 is:

- Ans
- ☐ 1. 16
 - ☐ 2. 14
 - ☐ 3. 12
 - ☒ 4. 8

Q.19 If $a + \frac{1}{a} = 4$, then $a^2 + \frac{1}{a^2} = ?$

- Ans
- ☐ 1. 18
 - ☐ 2. 12
 - ☒ 3. 14
 - ☐ 4. 16

Q.20 The central nervous system that receives information from all parts of the body and integrates it is constituted by:

- Ans
- ☐ 1. only the spinal cord
 - ☐ 2. only the heart
 - ☒ 3. the brain and the spinal cord
 - ☐ 4. only the brain

Q.21 Simplify the given expression.

$$(6 + 4) \div 2 - 2 + 6 \times 4$$

- Ans
- ☐ 1. 21
 - ☒ 2. 27
 - ☐ 3. 36
 - ☐ 4. 44

Q.22 Which of the following is NOT a phase transition between the states of matter?

- Ans
- ☐ 1. Sublimation
 - ☐ 2. Vaporization
 - ☒ 3. Emission
 - ☐ 4. Condensation

Q.23 In a certain code language, 'green leaves rustling' is coded as 'sa ka ta', and 'leaves are fresh' is coded as 'ka da na'. What is the code for 'leaves' in the given code language?

- Ans
- ☒ 1. ka
 - ☐ 2. sa
 - ☐ 3. da
 - ☐ 4. na

Q.24 Which of the following observable changes indicate that a chemical reaction has occurred?

- (a) Formation of gas
- (b) Formation of precipitates
- (c) Change in physical state
- (d) Colour change

Ans

- ☐ 1. Only (a) and (b)
- ☐ 2. Only (a), (b) and (c)
- ☐ 3. Only (c) and (d)
- ☒ 4. All (a), (b), (c) and (d)

Q.25 In August 2024, which state became the first in India to provide a Unified Pension Scheme to its employees?

Ans

- ☐ 1. Uttar Pradesh
- ☐ 2. Himachal Pradesh
- ☐ 3. Odisha
- ☒ 4. Maharashtra

Q.26 Select the correct pair from the following options based on the refractive defects of vision.

Ans

- ☐ 1. (a) Hypermetropia - near-sightedness
(b) Presbyopia - far-sightedness
- ☒ 2. (a) Myopia - near-sightedness
(b) Hypermetropia - far-sightedness
- ☐ 3. (a) Presbyopia - near-sightedness
(b) Hypermetropia - far-sightedness
- ☐ 4. (a) Presbyopia - near-sightedness
(b) Myopia - far-sightedness

Q.27 In August 2024, the Government of India established how many Zonal Cultural Centres (ZCCs) to promote cultural traditions and conduct research on folk arts and songs from rural and tribal areas?

Ans

- ☐ 1. Five
- ☐ 2. Four
- ☐ 3. Six
- ☒ 4. Seven

Q.28 Buds produced in the notches along the leaf margin of Bryophyllum fall on the soil and develop into new plants. Such a mode of reproduction is known as:

Ans

- ☐ 1. fragmentation
- ☐ 2. budding
- ☐ 3. regeneration
- ☒ 4. vegetative propagation

Q.29 Gitika borrowed a sum of ₹20,000 at a certain rate of simple interest for 2 years. If she paid an interest of ₹4,000 at the end of the period, then find the rate of interest per annum.

- Ans**
- ☒ 1. 10%
 - ☐ 2. 20%
 - ☐ 3. 15%
 - ☐ 4. 25%

Q.30 The acceleration due to gravity on an object of mass m placed near the surface of the earth is:

- Ans**
- ☐ 1. linearly proportional to m
 - ☐ 2. linearly proportional to m^2
 - ☐ 3. inversely proportional to m
 - ☒ 4. independent of m

Q.31 First find the median of 46, 64, 87, 41, 58, 77, 35, 90, 55, 92, and 33. If 92 is replaced with 99 and 41 is replaced with 43 in the data, then find the new median. What is the difference between the old median and the new median?

- Ans**
- ☐ 1. 3
 - ☐ 2. 6
 - ☒ 3. 0
 - ☐ 4. 2

Q.32 In which of the following types of reaction is there an exchange of ions between the reactants?

- Ans**
- ☒ 1. Double displacement reaction
 - ☐ 2. Disproportion reaction
 - ☐ 3. Decomposition
 - ☐ 4. Addition reaction

Q.33 If $\tan \theta + \cot \theta = 21$, then find the value of $6\tan^2 \theta + 6\cot^2 \theta$.

- Ans**
- ☐ 1. 439
 - ☒ 2. 2634
 - ☐ 3. 2636
 - ☐ 4. 441

Q.34 Compounds of carbon, which are linked by only single bonds between the carbon atoms are called _____.

- Ans**
- ☒ 1. Saturated compounds
 - ☐ 2. Ionic compounds
 - ☐ 3. Both ionic and saturated compounds
 - ☐ 4. Unsaturated compounds

Q.35 Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?

GFC, KJE, ONG, SRI, ?

- Ans**
- ☐ 1. WXL
 - ☐ 2. XYK
 - ☐ 3. WXM
 - ☒ 4. WVK

Q.36 A tank is filled by three pipes with uniform flow. The first two pipes operating simultaneously fill the tank in the same time during which the tank is filled by the third pipe alone. The second pipe fills the tank 5 hours faster than the first pipe and 4 hours slower than the third pipe. The time required by the first pipe is:

- Ans**
- ☐ 1. 10 hours
 - ☐ 2. 6 hours
 - ☐ 3. 30 hours
 - ☒ 4. 15 hours

Q.37 If the selling price of an almirah is doubled, then the profit is tripled. Find the initial profit percentage.

- Ans**
- ☐ 1. 50%
 - ☐ 2. 10%
 - ☒ 3. 100%
 - ☐ 4. 25%

Q.38 National Rifle Association of India (NRAI) approved amendments to the NRAI Match Book and other technical rules for domestic competitions in _____.

- Ans**
- ☒ 1. March 2024
 - ☐ 2. April 2024
 - ☐ 3. August 2024
 - ☐ 4. February 2024

Q.39 25% of 30% of 45% of 1 is equal to:

- Ans**
- ☒ 1. 0.03375
 - ☐ 2. 3.375
 - ☐ 3. 33.75
 - ☐ 4. 0.3375

Q.40 ఈ క్రింది వాటిలో ఏ అణువు ద్విపరమాణుక స్వభావం కలిగి ఉంటుంది?

- Ans**
- ☐ 1. హీలియం
 - ☐ 2. భాస్వరం
 - ☐ 3. ఆర్గాన్
 - ☒ 4. ఆక్సిజన్

Q.41 Sporangia blobs contain cells or spores that can eventually develop into new Rhizopus individuals. Such asexual reproduction is known as:

- Ans**
- ☐ 1. regeneration
 - ☐ 2. budding
 - ☒ 3. spore formation
 - ☐ 4. vegetative propagation

Q.42 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 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.)

(8, 4, 12)

(18, 9, 27)

- Ans**
- ☐ 1. (20, 12, 36)
 - ☐ 2. (24, 14, 36)
 - ☐ 3. (24, 12, 34)
 - ☒ 4. (24, 12, 36)

Q.43 Six boxes G, H, I, J, K and L are kept one over the other but not necessarily in the same order. G is kept third from the bottom. Only two boxes are kept between G and H. Only three boxes are kept between H and I. J is kept immediately above G. K is kept immediately below I.

Q. How many boxes are kept between H and L?

- Ans**
- ☐ 1. Three
 - ☐ 2. Two
 - ☐ 3. One
 - ☒ 4. Zero

Q.44 If u, g, and h are the initial velocity, gravitational acceleration, and height, respectively, of an object falling under gravitational force, then its final velocity v can be obtained from:

- Ans**
- ☐ 1. $v^2 + u^2 = 2gh$
 - ☐ 2. $v^2/u^2 = 2gh$
 - ☒ 3. $v^2 - u^2 = 2gh$
 - ☐ 4. $v^2u^2 = 2gh$

Q.45 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 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. MO - LP
 - ☐ 2. TV - SW
 - ☒ 3. OQ - NS
 - ☐ 4. GI - FJ

Q.46 Which metal pair starts to melt at room temperature?

- Ans
- ✓ 1. Gallium and cesium
 - ✗ 2. Iron and nickel
 - ✗ 3. Copper and cobalt
 - ✗ 4. Zinc and copper

Q.47 ఉష్ణోగ్రత పెరిగేకొద్దీ, పదార్థ కణాల గతిశక్తి _____.

- Ans
- ✗ 1. తగ్గుతుంది
 - ✗ 2. సున్నా అవుతుంది
 - ✓ 3. పెరుగుతుంది
 - ✗ 4. మారదు

Q.48 The diameter of the reflecting surface of a spherical mirror is same as its:

- Ans
- ✗ 1. focal length
 - ✗ 2. inverse of the power
 - ✓ 3. aperture
 - ✗ 4. radius of curvature

Q.49 Study the given table and answer the question that follows.

The table depicts the number of cars sold by Dealer A and Dealer B in the years 2021 and 2022.

Dealers	Number of cars sold in 2021	Number of cars sold in 2022
A	45	65
B	35	75





What is the absolute difference between the number of cars sold by Dealer A in 2021 and Dealer B in 2022?

- Ans
- ✓ 1. 30
 - ✗ 2. 20
 - ✗ 3. 40
 - ✗ 4. 35



Q.50 A, B, E, G, P, L and M are sitting around a circular table facing the centre. Only three people sit between P and E when counted from the left of P. Only three people sit between M and A when counted from the right of A. L sits to the immediate right of M. G is an immediate neighbour of A as well as E. Who sits to the second to the left of B?

- Ans
- ✗ 1. A
 - ✗ 2. L
 - ✗ 3. P
 - ✓ 4. G





Q.51 The average of ten numbers is 7. If each number is multiplied by 12, then the average of the new set of numbers will be:

Ans  1. 7
 2. 84
 3. 82
 4. 19

Q.52 The GSAT-N2 (GSAT-20) is a Ka-band high throughput communication satellite launched by which organisation?


Ans  1. National Remote Sensing Centre (NRSC)
 2. Antrix Corporation
 3. Department of Space (DoS)
 4. NewSpace India Limited (NSIL)

Q.53 If 400 J of heat is produced each second in a $4\ \Omega$ resistance, then the current flowing across the resistor is:

Ans  1. 40 A
 2. 20 A
 3. 30 A
 4. 10 A


Q.54 Identify the correct match of plant hormones with their functions.

Ans Gibberellins : Help in the growth of the stem

 1. Cytokinins : Promote cell division


 Absciscic acid : Inhibits growth

 Gibberellins : Promote cell division

 2. Cytokinins : Help in the growth of the stem


 Absciscic acid : Inhibits growth

 Gibberellins : Help in the growth of the stem

 3. Cytokinins : Inhibits growth





 Absciscic acid : Promote cell division

 Gibberellins : Inhibits growth

 4. Cytokinins : Promote cell division

 Absciscic acid : Help in the growth of the stem

Q.55 Which hormone regulates carbohydrate, protein and fat metabolism in the body and iodine is essential for the synthesis of it?

Ans  1. Testosterone hormone
 2. Insulin hormone
 3. Adrenaline hormone
 4. Thyroxin hormone

Q.56 A woman is 4 times as old as her daughter. After 6 years, the woman's age will be three times that of her daughter. The sum of their present ages is:

- Ans**
- ☐ 1. 70 years
 - ☐ 2. 80 years
 - ☒ 3. 60 years
 - ☐ 4. 90 years

Q.57 A solid rubber sphere weighs 6 kg when its diameter is 6 cm. Using the same material, a hollow sphere is made with outer diameter 18 cm and inner diameter 12 cm. What is its weight?

- Ans**
- ☐ 1. 96 kg
 - ☐ 2. 64.64 kg
 - ☐ 3. 72.64 kg
 - ☒ 4. 114 kg

Q.58 Which of the following is equal to the value of 1 Volt? (assume J-joule, C-coulomb, s-second)

- Ans**
- ☐ 1. 1 Js
 - ☒ 2. 1 J/IC
 - ☐ 3. 1 C/s
 - ☐ 4. 1 Cs

Q.59 Select the correct pairs from the following options.

- Ans**
- ☐ 1. (a) Resistance - ohm
 - ☐ 2. (a) Resistance - volt/ampere
 - ☐ 3. (a) Resistance - ampere metre
 - ☒ 4. (a) Resistance - ohm
- (b) Resistivity - ohm metre

Q.60 Identify the best method to prepare washing soda from sodium bicarbonate.

- Ans**
- ☐ 1. By freezing sodium bicarbonate
 - ☒ 2. By heating sodium bicarbonate
 - ☐ 3. By mixing sodium bicarbonate with water
 - ☐ 4. By adding sodium bicarbonate to vinegar

Q.61 Name the mode of reproduction in Spirogyra.

- Ans**
- ☐ 1. Multiple fission
 - ☐ 2. Budding
 - ☒ 3. Fragmentation
 - ☐ 4. Binary fission

Q.62 If 'K' stands for '×', 'L' stands for '−', 'M' stands for '÷' and 'N' stands for '+', what will come in place of the question mark '?' in the following equation?

$$9 \text{ M } 3 \text{ K } 13 \text{ N } 3 \text{ L } 23 = ?$$

- Ans**
- ☐ 1. 24
 - ☐ 2. 29
 - ☐ 3. 14
 - ☒ 4. 19

Q.63 Which of the following correctly describes the sum of kinetic energy and potential energy of an object?

- Ans**
- ☐ 1. Total chemical energy
 - ☐ 2. Total thermal energy
 - ☒ 3. Total mechanical energy
 - ☐ 4. Total electrical energy

Q.64 Which of the following would increase the resistance of a metallic conductor?

- Ans**
- ☐ 1. Decreasing the current flowing through the conductor.
 - ☐ 2. Decreasing its length.
 - ☐ 3. Using a material with higher conductivity.
 - ☒ 4. Decreasing its area of cross-section.

Q.65 Find the volume of a sphere whose diameter is 6 cm.

- Ans**
- ☒ 1. $36\pi \text{ cm}^3$
 - ☐ 2. $28\pi \text{ cm}^3$
 - ☐ 3. $42\pi \text{ cm}^3$
 - ☐ 4. $48\pi \text{ cm}^3$

Q.66 Refer to the given series and answer the question that follows (all numbers are single-digit numbers only, and all counting is to be done from left to right).

(Left) 5 9 8 9 7 2 3 9 8 7 2 1 5 5 8 7 9 3 5 3 1 4 6 4 4 9 7 4 7 (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 will be considered as a perfect square.)

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

Q.67 Refer to the given series and answer the question that follows (all numbers are single-digit numbers only, and all counting is to be done from left to right).

(Left) 1 8 4 5 9 6 5 2 4 8 0 9 5 9 5 7 9 5 3 3 5 1 5 1 4 7 6 6 4 9 (Right)

How many such odd digits are there, each of which is immediately preceded by an odd digit and also immediately followed by an even digit?

Ans

☒ 1. 3

☒ 2. 2

☒ 3. 0

☒ 4. 4

Q.68 ఈ ప్రశ్నలో, ఒక ప్రకటనలో పాటు I మరియు II అనే సంఖ్యలతో ఉన్న రెండు ఫలితాలు ఇవ్వబడ్డాయి. ప్రకటనలోని ప్రతిదీ నిజమని మీరు భావించాలి మరియు ప్రకటనలో ఇవ్వబడిన సమాచారం ఆధారంగా, ప్రకటనను ఏ తీసుకోవాల్సిన చర్య(లు) తార్కికంగా అనుసరిస్తున్నాడో (న్నాయో) నిర్ణయించండి.

ప్రకటన:

ముఖ్యంగా గ్రామీణ ప్రాంతాల్లో నాణ్యమైన విద్య అందుబాటులో లేకపోవడం వల్ల దేశం Xలో అక్షరాస్యత రేటు ప్రపంచ సగటు కంటే గణనీయంగా తక్కువగా ఉంది.

తీసుకోవాల్సిన చర్యలు:

I. అందుబాటును మెరుగుపరచడానికి దేశం Xలోని గ్రామీణ ప్రాంతాల్లో మరిన్ని పాఠశాలలు, విద్యా కేంద్రాలను నిర్మించడం.

II. దేశంలోని పట్టణ, గ్రామీణ ప్రాంతాల్లోని విద్యార్థులకు ఆన్‌లైన్ అభ్యాస వనరులను అందించడానికి డిజిటల్ విద్యా వేదికను అభివృద్ధి చేయడం.

Ans

☒ 1. I మాత్రమే అనుసరిస్తుంది.

☒ 2. I కానీ లేదా II కానీ ఏదీ అనుసరించదు.

☒ 3. I మరియు II రెండూ అనుసరిస్తాయి.

☒ 4. II మాత్రమే అనుసరిస్తుంది.

Q.69 కాంతి, లేదా గురుత్వాకర్షణ వంటి పర్యావరణ పీఠికాల ద్వారా మొక్కలలో కింది వాటిలో ఏ మార్పులు జరుగుతాయి?

Ans

☒ 1. మొక్క భాగాలు పెరిగే దిశలో మార్పు

☒ 2. వాటి వేర్ల శాఖల సరళిలో మార్పు

☒ 3. అవి అందించే ఆకులు మరియు పండ్ల ఆకృతిలో మార్పు

☒ 4. అవి ఉత్పత్తి చేసే పువ్వు యొక్క అండాశయం మరియు పరాగకోశం పరిమాణంలో మార్పు

Q.70 In a certain code language, 'Come Back Home' is written as 'Tu Ru Qu' and 'She Went Back' is written as 'Du Su Ru' and 'He Went Home' is written as 'Pu Tu Du'. How is 'She' written in the given language?

Ans

☒ 1. Du

☒ 2. Tu

☒ 3. Su

☒ 4. Ru

Q.71 The body of a squirrel has to prepare for either fighting or running away by using which of the following hormones?

Ans

☒ 1. Thyroxin

☒ 2. Adrenaline

☒ 3. Oestrogen

☒ 4. Testosterone

Q.72 మొక్కల పెరుగుదల కోన్ని నిర్దిష్ట ప్రాంతాలలో మాత్రమే జరుగుతుంది ఎందుకంటే:

Ans ☒ 1. సంయోజక (ఆధార) కణజాలం ఈ ప్రాంతాలలో మాత్రమే ఉంటుంది

☒ 2. సంక్లిష్ట శాశ్వత కణజాలం ఈ ప్రాంతాలలో మాత్రమే ఉంటుంది

☒ 3.

మెరిస్టెమాటిక్ కణజాలం అని కూడా పిలువబడే విభజన కణజాలం ఈ ప్రాంతాలలో మాత్రమే ఉంటుంది

☒ 4. సాధారణ శాశ్వత కణజాలం ఈ ప్రాంతాలలో మాత్రమే ఉంటుంది

Q.73 ఒక HR కంపెనీ 4800 మంది ఉద్యోగులను కలిగి ఉంది, వీరిలో 45% మంది పురుషులు. పురుషులలో 60% మంది 25 సంవత్సరాలు లేదా అంతకంటే ఎక్కువ వయస్సు గలవారు. ఆ HR కంపెనీలో 25 సంవత్సరాల కంటే తక్కువ వయస్సు ఉన్న పురుషులు ఎంత మంది ఉన్నారు?

Ans ☒ 1. 2640

☒ 2. 864

☒ 3. 2160

☒ 4. 1296

Q.74 Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and decide which conclusion(s) logically follow(s) from the given statements.

Statements:

Some tomatoes are apples.

All apples are mushrooms.

Conclusions:

(I) Some mushrooms are tomatoes

(II) All apples are tomatoes

Ans ☒ 1. Neither conclusion (I) nor (II) follows

☒ 2. Only conclusion (II) follows

☒ 3. Only conclusion (I) follows

☒ 4. Both conclusions (I) and (II) follow

Q.75 For a given colour and given pair of media, and light is going from rarer to denser media, the ratio of sine of the angle of incidence to the sine of angle of refraction is:

Ans ☒ 1. always 1

☒ 2. a constant less than 1

☒ 3. always zero

☒ 4. a constant greater than 1

Q.76 During meiosis, a cell divides to create _____ new cells.

Ans ☒ 1. Four

☒ 2. Twenty-four

☒ 3. Sixteen

☒ 4. Eight

Q.77 OTRP is related to UZXV in a certain way based on the English alphabetical order. In the same way, HMKI is related to NSQO. To which of the following options is MRPN related, following the same logic?

- Ans**
- ☒ 1. SXVT
 - ☐ 2. SXTV
 - ☐ 3. XSVT
 - ☐ 4. XSTV

Q.78 The 25th edition of the Hornbill Festival was held in which state?

- Ans**
- ☐ 1. Assam
 - ☒ 2. Nagaland
 - ☐ 3. Manipur
 - ☐ 4. Meghalaya

Q.79 Which of the following options should come in place of the question mark (?) in the given series to make it logically complete?

691, 635, 714, 658, 737, ?

- Ans**
- ☐ 1. 628
 - ☐ 2. 701
 - ☐ 3. 696
 - ☒ 4. 681

Q.80 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 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.)

(23, 47, 85)

(11, 20, 46)

- Ans**
- ☐ 1. (8, 7, 35)
 - ☒ 2. (17, 6, 38)
 - ☐ 3. (21, 15, 50)
 - ☐ 4. (9, 16, 42)

Q.81 The sum of two positive numbers is 45 and their difference is 19. What are the numbers?

- Ans**
- ☐ 1. 31, 15
 - ☒ 2. 32, 13
 - ☐ 3. 30, 15
 - ☐ 4. 25, 20

Q.82 Select the triad which follows the same pattern as that followed by the two triads given below. Both triads follow the same pattern.

RM-HL-OQ

NI-DH-KM

- Ans**
- ☐ 1. PK-FI-MN
 - ☐ 2. QK-FJ-MN
 - ☐ 3. QK-FI-MO
 - ☒ 4. PK-FJ-MO

Q.83 The Indian National Trust for Art and Cultural Heritage (INTACH) Research Programme for 2025 is divided into how many categories?

- Ans**
- ☐ 1. Two
 - ☐ 2. Four
 - ☒ 3. Three
 - ☐ 4. Five

Q.84 A pea plant climbs on other plants or fences with the help of:

- Ans**
- ☐ 1. sepals
 - ☐ 2. prickles
 - ☒ 3. tendrils
 - ☐ 4. roots

Q.85 Which of the following metal catches fire if kept in open?

- Ans**
- ☐ 1. Zinc
 - ☐ 2. Magnesium
 - ☒ 3. Sodium
 - ☐ 4. Copper

Q.86 Seven people, A, B, D, L, X, Y and Z, are sitting in a row, facing north. No one sits to the left of B. Only four people sit between B and Y. Only three people sit to the right of Z. A sits to the immediate left of L. D is not an immediate neighbour of Z. Who sits at the rightmost end of the line?

- Ans**
- ☐ 1. X
 - ☐ 2. Y
 - ☐ 3. L
 - ☒ 4. D

Q.87 What is the sum of the first 10 prime numbers?

- Ans**
- ☐ 1. 101
 - ☒ 2. 129
 - ☐ 3. 111
 - ☐ 4. 131

Q.88 Which of the following options should come in place of the question mark (?) in the given series based on the English alphabetical order?

IUF, LVJ, OWN, RXR, ?

- Ans**
- ☐ 1. USV
 - ☐ 2. VYX
 - ☒ 3. UYV
 - ☐ 4. VYU

Q.89 Which of the following is an isobar of argon?

- Ans**
- ☐ 1. Sodium
 - ☐ 2. Potassium
 - ☐ 3. Chlorine
 - ☒ 4. Calcium

Q.90 In which of the following conditions is the work done considered negative?

- Ans**
- ☐ 1. When the force is in the direction of displacement.
 - ☐ 2. When the displacement is zero.
 - ☐ 3. When the force is perpendicular to the direction of displacement.
 - ☒ 4. When the force is opposite to the direction of displacement.

Q.91 What will come in the place of '?' in the following equation, if '×' and '−' are interchanged and '+' and '÷' are interchanged?

$$55 \times 45 \div 5 - 8 \div 4 = ?$$

- Ans**
- ☐ 1. 47
 - ☐ 2. 17
 - ☒ 3. -13
 - ☐ 4. 77

Q.92 The magnetic field lines inside a current carrying solenoid are in the form of:

- Ans**
- ☐ 1. perpendicular straight lines
 - ☐ 2. curved lines
 - ☒ 3. parallel straight lines
 - ☐ 4. concentric circles

Q.93 Which state was crowned the team champion at the 4th National Finswimming Championship, 2024?

- Ans**
- ☐ 1. Maharashtra
 - ☐ 2. Tamil Nadu
 - ☐ 3. Karnataka
 - ☒ 4. West Bengal

Q.94 The Waqf (Amendment) Bill, 2024, introduced in the Indian Lok Sabha on 8 August 2024, aims to repeal which of the following Acts?

- Ans**
- ☒ 1. Mussalman Wakf Act, 1923
 - ☐ 2. Mussalman Wakf Act, 1926
 - ☐ 3. Mussalman Wakf Act, 1924
 - ☐ 4. Mussalman Wakf Act, 1925

Q.95

In a certain code language,

'A + B' means 'A is the mother of B',

'A - B' means 'A is the son of B',

'A x B' means 'A is the husband of B'

and 'A ÷ B' means 'A is the brother of B'.

How is O related to Q if 'M + N ÷ O x P + Q'?

Ans

☐ 1. Brother

☐ 2. Father's brother

☐ 3. Son

☒ 4. Father

Q.96

Tap S alone fills a cistern in 2 hours; while tap T alone fills the same cistern in 3 hours. A new tap U is attached to the bottom of the cistern which can empty the completely filled cistern in 6 hours. Sunny started all three taps together at 9 a.m. When will the tank be full?

Ans

☐ 1. 11:15 a.m.

☒ 2. 10:30 a.m.

☐ 3. 9:45 a.m.

☐ 4. 12 p.m.

Q.97

Spirogyra a multi-cellular organism simply breaks up into smaller pieces upon maturation and these pieces or fragments grow into new individuals. Such a mode of reproduction is known as:

Ans

☒ 1. fragmentation

☐ 2. budding

☐ 3. binary fission

☐ 4. regeneration

Q.98

If $\frac{3}{7} = \frac{x}{-35}$, then x is:

Ans

☐ 1. -5

☒ 2. -15

☐ 3. 15

☐ 4. 5

Q.99

A sum of money is to be distributed among four members A, B, C, and D in the ratio 4 : 7 : 9 : 3. If C gets ₹720 more than D, find A's share.

Ans



☒ 1. ₹480

☐ 2. ₹240

☐ 3. ₹360

☐ 4. ₹160

Q.100 A shopkeeper provides successive discounts of 7% and 2%, which are equivalent to a single discount of ____.

- Ans**
-  1. 9.14%
 -  2. 8%
 -  3. 9%
 -  4. 8.86%

2024/12/27-12:25:22