

Test Date : 02 Jul 2023

Test Slot : Slot 1

Subject : (Exam No. - 1) B.Sc. - M.Sc. Forensic Science

Sl. No.1
QBID:1151669

Sound wave passing through the air, the changing volume and pressure of air is

1. Isothermal
2. Isobaric
3. Adiabatic
4. Isochoric

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2001]
2[Option ID=2002]
3[Option ID=2003]
4[Option ID=2004]

Sl. No.2
QBID:1151670

Infrasonic, Ultrasonic, and audible waves travels through an air medium with speed v_u , v_i , v_a respectively, then

1. $v_u \leq v_i = v_a$
2. $v_u = v_i = v_a$
3. $v_u \geq v_i \geq v_a$
4. $v_u \leq v_i \leq v_a$

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2005]
2[Option ID=2006]
3[Option ID=2007]
4[Option ID=2008]

Sl. No.3
QBID:1151671

The formula of the second law of electrostatics is _____.

1. $F \propto Q_1 + Q_2 / d^2$
2. $F = Q_1 + Q_2$
3. $F = K \times Q_1 \times Q_2 / d^2$
4. 1 & 3 are correct

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2009]

2[Option ID=2010]

3[Option ID=2011]

4[Option ID=2012]

Sl. No.4

QBID:1151672

Two copper conductors are equal length. The cross-sectional area of one conductor is four times that of the other. If the conductor having smaller cross-sectional area has a resistance of 40 ohms the resistance of another conductor will be

1. 160 ohms
2. 80 ohms
3. 20 ohms
4. 10 ohms

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2013]

2[Option ID=2014]

3[Option ID=2015]

4[Option ID=2016]

Sl. No.5

QBID:1151673

Give the number of electrons passing through a wire per minute. The current flowing through it is 500mA.

1. 1.875×10^{20}
2. 6.875×10^{20}
3. 1.875×10^{-20}
4. 6.875×10^{-20}

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2017]

2[Option ID=2018]

3[Option ID=2019]

4[Option ID=2020]

Sl. No.6

QBID:1151674

The induced emf is maximum if the conductor cuts the magnetic field at

1. 0 degree
2. 90 degree
3. 45 degree
4. 180 degree

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2021]

2[Option ID=2022]

3[Option ID=2023]

4[Option ID=2024]

Sl. No.7

QBID:1151675

A transformer has 4,000 turns on its primary coil and 150 turns on its secondary coil. The input voltage is 10,000 V. What is the output voltage?

1. 1600 V
2. 547 V
3. 375 V
4. 850 V

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2025]

2[Option ID=2026]

3[Option ID=2027]

4[Option ID=2028]

Sl. No.8

QBID:1151676

A circular coil with a cross-sectional area of 4 cm^2 has 10 turns. It is placed at the centre of a long solenoid that has 15 turns/cm and a cross-sectional area of 10 cm^2 . The axis of the coil coincides with the axis of the solenoid. What is their mutual inductance?

1. $7.54 \mu\text{H}$
2. $8.54 \mu\text{H}$
3. $9.54 \mu\text{H}$
4. $10.54 \mu\text{H}$

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2029]

2[Option ID=2030]

3[Option ID=2031]

4[Option ID=2032]

Sl. No.9

QBID:1151677

In a series resonant RLC circuit, the voltage across 100Ω resistor is 40 V. The resonant frequency ω is 250 rad/s. If the value of C is $4 \mu\text{F}$, then the voltage across L is

1. 600 V
2. 4000 V
3. 400V
4. 1 V

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2033]

2[Option ID=2034]

3[Option ID=2035]

4[Option ID=2036]

Sl. No.10

QBID:1151678

Flux is a _____ field, and its density is a _____ field.

1. Scalar, Vector
2. Vector, Scalar
3. Vector, Vector
4. Scalar, Scalar

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2037]
2[Option ID=2038]
3[Option ID=2039]
4[Option ID=2040]

Sl. No.11
QBID:1151680

Find the magnification of the convex lens, if an object is placed at 30 cm from a convex lens, having a focal length of 15 cm.

1. +2
2. -0.5
3. -1
4. +1

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2041]
2[Option ID=2042]
3[Option ID=2043]
4[Option ID=2044]

Sl. No.12
QBID:1151682

Which of the following is the correct relationship between temperature (T) and mobility (u) of electrons in electronic circuits?

1. $u \propto T^{-3/2}$
2. $u \propto T^{-1/2}$
3. $u \propto T$
4. $u \propto T^{-1}$

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2045]
2[Option ID=2046]
3[Option ID=2047]
4[Option ID=2048]

Sl. No.13
QBID:1151765

In digital transmission modulation technique that requires minimum bandwidth is?

1. DPCM
2. PAM
3. PCM
4. Delta Modulation

- (1) 1
(2) 2

(3) 3

(4) 4

1[Option ID=2049]

2[Option ID=2050]

3[Option ID=2051]

4[Option ID=2052]

Sl. No.14

QBID:1151767

On which of the following frequencies does a Wi-Fi network works:

1. 5 MHz

2. 5 GHz

3. 5 KHz

4. 5 THz

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2053]

2[Option ID=2054]

3[Option ID=2055]

4[Option ID=2056]

Sl. No.15

QBID:1151768

15. A 54 mW laser beam has a cross sectional area of 5.0 mm^2 . The magnitude of maximum electric field in this electromagnetic wave is given by:

(given permittivity of space $\epsilon_0 = 9 \times 10^{-12}$ SI units, Speed of light $c = 3 \times 10^8 \text{ m/s}$)

1. 7.45 kV/m

2. 2.82 kV/m

3. 4.55 kV/m

4. 76.45 kV/m

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2057]

2[Option ID=2058]

3[Option ID=2059]

4[Option ID=2060]

Sl. No.16

QBID:1151770

The refractive index of the glass is 1.62. the sine of critical angle at glass/air interface for total internal reflection is:

1. 0.25

2. 0.39

3. 0.62

4. 0.75

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2061]

2[Option ID=2062]

3[Option ID=2063]

4[Option ID=2064]

Sl. No.17

QBID:1151774

What increases the resistance of wire at higher frequencies

1. Skin Effect
2. Temperature
3. Voltage
4. Insulation

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2065]

2[Option ID=2066]

3[Option ID=2067]

4[Option ID=2068]

Sl. No.18

QBID:1151776

At approx. 3000cm-1 one expects

1. C-C swaying
2. C-H swaying
3. C=O swaying
4. O-H swaying

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2069]

2[Option ID=2070]

3[Option ID=2071]

4[Option ID=2072]

Sl. No.19

QBID:1151779

Below approx. 1500cm-1 one finds

1. The area of C-H swaying
2. The area of C=O swaying
3. The Fingerprint area
4. O-H swaying

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2073]
2[Option ID=2074]
3[Option ID=2075]
4[Option ID=2076]

Sl. No.20
QBID:1151781

Which of the following S/N enhancement techniques would you probably not use for a repetitive, reproducible signal?

1. Smoothing
2. Digital filtering
3. Signal averaging
4. None of these can be used for repetitive signals.

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2077]
2[Option ID=2078]
3[Option ID=2079]
4[Option ID=2080]

Sl. No.21
QBID:1151782

Which of the following is not a step in atomic absorption spectroscopy (AAS)?

1. A solution is vaporised.
2. Atoms absorb light.
3. A calibration curve is constructed.
4. Particles are adsorbed onto a stationary phase.

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2081]
2[Option ID=2082]
3[Option ID=2083]
4[Option ID=2084]

Sl. No.22
QBID:1151785

The ion that gives a green colour in a flame test and forms a blue precipitate with OH^- is ...

1. Ca_2^+ .
2. Cu_2^+ .
3. Ba_2^+ .
4. Fe_2^+ .

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=2085]
2[Option ID=2086]
3[Option ID=2087]
4[Option ID=2088]

Sl. No.23
QBID:1151786

How could the presence of CO_3^{2-} in a solution be determined?

1. Forms a white precipitate with AgNO_3 solution which is insoluble in HNO_3 . No reaction with BaCl_2 .
2. Forms a yellow precipitate with AgNO_3 and a white precipitate with BaCl_2 . Both precipitates dissolve in HNO_3 .
3. Forms a white precipitate with both AgNO_3 and BaCl_2 solutions. Both precipitates dissolve in HNO_3 .
4. Does not react with AgNO_3 . Forms a white precipitate with BaCl_2 solution which is insoluble in HNO_3 .

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=2089]
2[Option ID=2090]
3[Option ID=2091]
4[Option ID=2092]

Sl. No.24
QBID:1151787

Gravimetric analysis would be the best method for determining the quantity of ...

1. ethanol in wine.
2. salt in chicken soup.
3. bleach in household cleaner.
4. ethanoic acid in vinegar

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=2093]
2[Option ID=2094]
3[Option ID=2095]
4[Option ID=2096]

Sl. No.25
QBID:1151788

Bleaching powder is made from:

1. Sulphur dioxide and gypsum
2. Chlorine and Charcoal
3. Soda ash and lime
4. Lime and Chlorine

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2097]

2[Option ID=2098]

3[Option ID=2099]

4[Option ID=2100]

Sl. No.26

QBID:1151789

Which of the following is not a chemical reaction?

1. Burning of paper
2. Digestion of food
3. Conversion of water into steam
4. Burning of coal

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2101]

2[Option ID=2102]

3[Option ID=2103]

4[Option ID=2104]

Sl. No.27

QBID:1151791

Which of the following is used as lubricant?

1. Graphite
2. Silica
3. Diamond
4. Iron Oxide

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2105]

2[Option ID=2106]

3[Option ID=2107]

4[Option ID=2108]

Sl. No.28

QBID:1151792

Gobar gas contains mainly:

1. Carbon dioxide
2. Methane
3. Butane
4. Carbon Monoxide

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2109]
2[Option ID=2110]
3[Option ID=2111]
4[Option ID=2112]

Sl. No.29
QBID:1151817

Which thermometer is used to indicate the lowest temperature?

1. Clinical thermometer
2. Gas thermometer
3. Alcohol thermometer
4. Resistance thermometer

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2113]
2[Option ID=2114]
3[Option ID=2115]
4[Option ID=2116]

Sl. No.30
QBID:1151819

Which one among the following polymers is used for making bulletproof material?

1. Polyvinyl chloride
2. Polystyrene
3. Polyethylene
4. Polyamide

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2117]
2[Option ID=2118]
3[Option ID=2119]
4[Option ID=2120]

Sl. No.31
QBID:1151843

The pH of fresh groundwater slightly decreases upon exposure to air because

1. carbon dioxide from air is dissolved in the water
2. oxygen from air is dissolved in the water
3. the dissolved carbon dioxide of the groundwater escapes into air
4. the dissolved oxygen of the groundwater escapes into air

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2121]

2[Option ID=2122]

3[Option ID=2123]

4[Option ID=2124]

Sl. No.32

QBID:1151848

The macro-nutrients provided by inorganic fertilizers are

1. carbon, iron and boron
2. magnesium, manganese and sulphur
3. magnesium, zinc and iron
4. nitrogen, phosphorus and potassium

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2125]

2[Option ID=2126]

3[Option ID=2127]

4[Option ID=2128]

Sl. No.33

QBID:1151850

The addition of a neutron to the nucleus of an atom

1. increases the atomic mass of the atom
2. decreases the atomic mass of the atom
3. increases the charge on the nucleus
4. decreases the charge on the nucleus

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2129]

2[Option ID=2130]

3[Option ID=2131]

4[Option ID=2132]

Sl. No.34

QBID:1151852

Which among the following is a metalloid?

1. Tin
2. Silver
3. Iodine
4. Arsenic

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2133]

2[Option ID=2134]

3[Option ID=2135]

4[Option ID=2136]

Sl. No.35

QBID:1151853

The freezing point of water at 760 mm pressure is ____.

1. 0 K
2. 273 K
3. 273⁰C
4. -273⁰C

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2137]

2[Option ID=2138]

3[Option ID=2139]

4[Option ID=2140]

Sl. No.36

QBID:1151857

What is the role of the circulatory system in the human body?

1. Oxygen transport
2. Digestion of food
3. Regulation of body temperature
4. Production of hormones

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2141]

2[Option ID=2142]

3[Option ID=2143]

4[Option ID=2144]

Sl. No.37

QBID:1152527

Which of the following is NOT a component of the immune system?

1. Tonsils
2. Spleen
3. Liver
4. Lymph nodes

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2145]

2[Option ID=2146]

3[Option ID=2147]

4[Option ID=2148]

Sl. No.38

QBID:1153129

Which of the following is responsible for the breakdown of complex organic molecules into simpler forms in the environment?

1. Decomposers
2. Producers
3. Consumers
4. Predators

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2221]

2[Option ID=2222]

3[Option ID=2223]

4[Option ID=2224]

Sl. No.39

QBID:1153954

What microorganisms can use oxygen when it is present and continue to grow without it?

1. Obligate aerobes
2. Obligate anaerobes
3. Free radicals
4. Facultative anaerobes

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2381]

2[Option ID=2382]

3[Option ID=2383]

4[Option ID=2384]

Sl. No.40
QBID:1153198

What is the process by which plants release excess water vapor through their leaves called?

1. Photosynthesis
2. Respiration
3. Fermentation
4. Transpiration

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2229]
2[Option ID=2230]
3[Option ID=2231]
4[Option ID=2232]

Sl. No.41
QBID:1153955

What is the process by which a multicellular organism grows and develops from a single cell?

1. Reproduction
2. Regeneration
3. Embryogenesis
4. Metamorphosis

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2385]
2[Option ID=2386]
3[Option ID=2387]
4[Option ID=2388]

Sl. No.42
QBID:1153203

What is the process by which cells become specialized in structure and function?

1. Replication
2. Differentiation
3. Meiosis
4. Fertilization

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2233]
2[Option ID=2234]

3[Option ID=2235]
4[Option ID=2236]

Sl. No.43
QBID:1152531

What is the process by which water moves from an area of high concentration to an area of low concentration across a semipermeable membrane?

1. Osmosis
2. Diffusion
3. Active transport
4. Endocytosis

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2149]
2[Option ID=2150]
3[Option ID=2151]
4[Option ID=2152]

Sl. No.44
QBID:1153963

What is the study of the relationships between organisms and their environment called?

1. Ecology
2. Etiology
3. Microbiology
4. Physiology

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2389]
2[Option ID=2390]
3[Option ID=2391]
4[Option ID=2392]

Sl. No.45
QBID:1153210

In Gymnosperms the only negative mode of pollination is: -

1. Anemophily
2. Hydrophily
3. Zoophily
4. Entomophily

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2237]
2[Option ID=2238]
3[Option ID=2239]
4[Option ID=2240]

Sl. No.46
QBID:1153966

Which of the following is NOT a type of muscle tissue?

1. Skeletal muscle
2. Cardiac muscle
3. Smooth muscle
4. Connective muscle

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2397]
2[Option ID=2398]
3[Option ID=2399]
4[Option ID=2400]

Sl. No.47
QBID:1153381

What is the largest organ in the human body?

1. Brain
2. Liver
3. Skin
4. Heart

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2241]
2[Option ID=2242]
3[Option ID=2243]
4[Option ID=2244]

Sl. No.48
QBID:1153964

Feature of eukaryotic cells not found in prokaryotes:

1. Complex cytoskeletal system
2. Plasma membrane
3. Shared metabolic pathways
4. Proteasomes

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2393]
2[Option ID=2394]
3[Option ID=2395]
4[Option ID=2396]

Sl. No.49
QBID:1152534

Who coined the term mitochondrion?

1. Camillo Golgi
2. Carl Benda
3. Schimper
4. Schleicher

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2153]
2[Option ID=2154]
3[Option ID=2155]
4[Option ID=2156]

Sl. No.50
QBID:1153130

The type of coiling in DNA is:

1. Opposite
2. Right-handed
3. Left-handed
4. Zig-zag

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2225]
2[Option ID=2226]
3[Option ID=2227]
4[Option ID=2228]

Sl. No.51
QBID:1153945

What is the process by which an organism changes over time in response to its environment?

1. Evolution
2. Adaptation
3. Natural selection
4. Speciation

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2373]
2[Option ID=2374]
3[Option ID=2375]
4[Option ID=2376]

Sl. No.52
QBID:1153386

What is the process by which an organism develops from a fertilized egg into a mature individual?

1. Metamorphosis
2. Embryogenesis
3. Differentiation
4. Regeneration

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2245]

2[Option ID=2246]

3[Option ID=2247]

4[Option ID=2248]

Sl. No.53

QBID:1153950

Which of the following is an example of amphoteric molecule?

1. Sugars
2. Acetic acid
3. Water
4. Malic acid

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2377]

2[Option ID=2378]

3[Option ID=2379]

4[Option ID=2380]

Sl. No.54

QBID:1153390

Let $A = \{1, 2, 3, 4\}$ and $B = \{a, b, c, d\}$. The number of one-to-one functions from A to B is:

1. 24
2. 16
3. 9
4. 4

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2249]

2[Option ID=2250]

3[Option ID=2251]

4[Option ID=2252]

Sl. No.55

QBID:1152537

The number of one-to-one functions from a set with 4 elements to a set with 3 elements is:

1. 6
2. 9
3. 12
4. 24

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2157]
2[Option ID=2158]
3[Option ID=2159]
4[Option ID=2160]

Sl. No.56
QBID:1153919

The roots of the equation $z^2 + 2z + 1 = 0$ are:

1. $-1 + i, -1 - i$
2. $-1 + 2i, -1 - 2i$
3. $1 + i, 1 - i$
4. $-2 + i, -2 - i$

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2361]
2[Option ID=2362]
3[Option ID=2363]
4[Option ID=2364]

Sl. No.57
QBID:1153773

The complex number z that satisfies the equation $|z - 1 - 3i| = 5$ lies on:

1. Circle
2. Line
3. Parabola
4. Hyperbola

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2253]
2[Option ID=2254]
3[Option ID=2255]
4[Option ID=2256]

Sl. No.58
QBID:1153933

In how many ways can 5 boys and 4 girls be seated in a row such that no two boys or two girls are adjacent?

1. 1,080
2. 1,440
3. 2,160
4. 2,880

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2365]
2[Option ID=2366]
3[Option ID=2367]
4[Option ID=2368]

Sl. No.59
QBID:1153779

In how many ways can 5 different books be arranged on a shelf if two specific books must always be together?

1. 240
2. 360
3. 480
4. 600

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2257]
2[Option ID=2258]
3[Option ID=2259]
4[Option ID=2260]

Sl. No.60
QBID:1153939

If A is a 3x3 matrix with $|A| = 2$, then $|2A|$ is equal to:

1. 4
2. 8
3. 16
4. 32

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2369]
2[Option ID=2370]

3[Option ID=2371]
4[Option ID=2372]

Sl. No.61
QBID:1152540

Let A and B be 2x2 matrices. If $|A| = 3$ and $|B| = 2$, then $|AB|$ is equal to:

1. 6
2. 5
3. 2
4. 1

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2161]
2[Option ID=2162]
3[Option ID=2163]
4[Option ID=2164]

Sl. No.62
QBID:1153788

The coefficient of the term $x^3 y^5$ in the expansion of $[(3x-2y)]^8$ is:

1. 6720
2. 40320
3. 3360
4. 20160

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2261]
2[Option ID=2262]
3[Option ID=2263]
4[Option ID=2264]

Sl. No.63
QBID:1153896

If $f(x) = \sin^{-1} 2x/(1+x^2)$, then $f(x)$ is differentiable on

1. $[-1, 1]$
2. $\mathbb{R} - \{-1, 1\}$
3. $\mathbb{R} - (-1, 1)$
4. None of these

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2353]
2[Option ID=2354]

3[Option ID=2355]

4[Option ID=2356]

Sl. No.64

QBID:1153804

The function $f(x) = |x - 1|$ is

1. continuous everywhere
2. continuous everywhere, except at $x = 1$
3. differentiable everywhere
4. differentiable nowhere

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2265]

2[Option ID=2266]

3[Option ID=2267]

4[Option ID=2268]

Sl. No.65

QBID:1153910

The function $f(x) = x - |x - x^2|$ is

1. continuous at $x = 1$
2. discontinuous at $x = 1$
3. not defined at $x = 1$
4. None of these

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2357]

2[Option ID=2358]

3[Option ID=2359]

4[Option ID=2360]

Sl. No.66

QBID:1153812

$a^3 \cos(B - C) + b^3 \cos(C - A) + c^3 \cos(A - B)$ is equal to

1. $3abc$
2. $3(a + b + c)$
3. $abc(a + b + c)$
4. 0

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2269]

2[Option ID=2270]

3[Option ID=2271]

4[Option ID=2272]

Sl. No.67
QBID:1152542

If in a ΔABC , $a \tan A + b \tan B = (a + b) \tan (A + B)/2$, then

1. $A = B = C$
2. $C = A$
3. $A = B$
4. $B = C$

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2165]
2[Option ID=2166]
3[Option ID=2167]
4[Option ID=2168]

Sl. No.68
QBID:1153883

In a ΔABC , a, b, c are the sides of the triangle opposite to the angles A, B, C , respectively. Then, the value of $a^3 \sin (B - C) + b^3 (C - A) + c^3 (A - B)$ is

1. 0
2. 1
3. 3
4. 2

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2341]
2[Option ID=2342]
3[Option ID=2343]
4[Option ID=2344]

Sl. No.69
QBID:1153814

If the bisector of the angle P of a triangle PQR meets QR in S , then

1. $QS = SR$
2. $QS : SR = PR : PQ$
3. $QS : SR = PQ : PR$
4. None of these

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2273]
2[Option ID=2274]

3[Option ID=2275]

4[Option ID=2276]

Sl. No.70

QBID:1153885

If α and β are the roots of the equations $6x^2 - 5x + 1 = 0$, then the value of $\tan^{-1} \alpha + \tan^{-1} \beta$ is

1. 0
2. $\pi/4$
3. 1
4. $\pi/2$

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2345]

2[Option ID=2346]

3[Option ID=2347]

4[Option ID=2348]

Sl. No.71

QBID:1153815

If 'CARING' is coded as 'EDVGKC', and 'SHARES' is coded as 'UKEPBO', then how will 'CASKET' be coded as in the same code?

1. EDXIBP
2. EDWIAP
3. EDWPAI
4. EDWIBP

(1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2277]

2[Option ID=2278]

3[Option ID=2279]

4[Option ID=2280]

Sl. No.72

QBID:1153891

Three of the following four are alike in a certain way and hence form a group. Which is the one that does not belong to the group?

1. Petrol – Car
2. Electricity – Television
3. Ink – Pen
4. Dust – Vacuum Cleaner

(1) 1

- (2) 2
- (3) 3
- (4) 4

1[Option ID=2349]
2[Option ID=2350]
3[Option ID=2351]
4[Option ID=2352]

Sl. No.73
QBID:1152545

Point P is 11 km towards east of point Q. A man starts from point Q and travels 9 km towards west. He then takes a left turn and travels 4 km. he finally takes a left turn and travels 20 km before stopping. How far and towards which direction must he travel in order to reach point P?

1. 11 km towards south
2. 4 km towards north
3. 24 km towards south
4. 9 km towards north

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=2169]
2[Option ID=2170]
3[Option ID=2171]
4[Option ID=2172]

Sl. No.74
QBID:1153817

A man starts from a point, walks 8 km towards north, turns right and walks 12 km, turns left and walks 7 km, turns left and walks 12 km towards West, turns left and walks 12 km. In which direction is he from the starting point?

1. North
2. South
3. West
4. East

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=2281]
2[Option ID=2282]
3[Option ID=2283]
4[Option ID=2284]

Sl. No.75
QBID:1153880

In a row of girls, Veena is 12th from the start and 19th from the end. In another row of girls, Sunita is 14th from the start and 20th from the end. How many girls are there in both the rows together?

1. 72
2. 65
3. 63
4. 61

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2333]
2[Option ID=2334]
3[Option ID=2335]
4[Option ID=2336]

Sl. No.76
QBID:1153818

Four words have been given out of which three are alike in some manner, while one is different .Choose the odd one.

1. Cut
2. knife
3. Scalpel
4. Chisel

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2285]
2[Option ID=2286]
3[Option ID=2287]
4[Option ID=2288]

Sl. No.77
QBID:1153881

Four words have been given out of which three are alike in some manner, while one is different. Choose the odd one.

1. Money
2. Lira
3. Rial
4. Dollar

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2337]
2[Option ID=2338]
3[Option ID=2339]
4[Option ID=2340]

Sl. No.78
QBID:1153819

Patanjali is well known for the compilation of

- 1 Yoga Sutra
- 2 Panchatantra
- 3 Brahma Sutra
- 4 Ayurveda

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2289]
2[Option ID=2290]
3[Option ID=2291]
4[Option ID=2292]

Sl. No.79
QBID:1152549

Which Party was founded by Subhash Chandra Bose in the Year 1939 after he broke away from the congress?

- 1 Indian Freedom Party
- 2 Azad Hind Fauj
- 3 Revolutionary Front
- 4 Forward Bloc

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2173]
2[Option ID=2174]
3[Option ID=2175]
4[Option ID=2176]

Sl. No.80
QBID:1153830

Which of the following is the first missile which has been developed in India?

- 1 Akash
- 2 Prithvi
- 3 Agni
- 4 Trishul

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=2321]
2[Option ID=2322]
3[Option ID=2323]
4[Option ID=2324]

Sl. No.81
QBID:1153822

The first person to enter into space was:

- 1 Valentina Tereshkova
- 2 Edward H. White
- 3 Yuri Gagarin
- 4 Alan Shepard

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=2293]
2[Option ID=2294]
3[Option ID=2295]
4[Option ID=2296]

Sl. No.82
QBID:1153831

ISRO is an abbreviation for:

- 1 Indian Scientific Research Organisation
- 2 International Space Research Organisation
- 3 International Sales Research Organisation
- 4 Indian Space Research Organisation

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=2325]
2[Option ID=2326]
3[Option ID=2327]
4[Option ID=2328]

Sl. No.83
QBID:1153823

The largest ocean is:

- 1 Atlantic Ocean
- 2 Indian Ocean
- 3 Arctic Ocean
- 4 Pacific Ocean

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2297]
2[Option ID=2298]
3[Option ID=2299]
4[Option ID=2300]

Sl. No.84
QBID:1153878

Kaziranga National Park is famous for:

- 1 Rhinoceros
- 2 Tiger
- 3 Lion
- 4 Crocodile

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2329]
2[Option ID=2330]
3[Option ID=2331]
4[Option ID=2332]

Sl. No.85
QBID:1153044

What is the motto incorporated under our National Emblem?

- 1 Satyam Shivam
- 2 Satyam Shivam Sundaram
- 3 Satyameva Jayate
- 4 Jai Hind

- (1) 1
(2) 2
(3) 3

(4) 4

1[Option ID=2177]
2[Option ID=2178]
3[Option ID=2179]
4[Option ID=2180]

Sl. No.86
QBID:1153825

Her thinking leans _____ democracy.

1. with
2. towards
3. for
4. None of these

(1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2301]
2[Option ID=2302]
3[Option ID=2303]
4[Option ID=2304]

Sl. No.87
QBID:1153829

The train _____ as fast as the bus.

1. went
2. running
3. moves
4. going

(1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2317]
2[Option ID=2318]
3[Option ID=2319]
4[Option ID=2320]

Sl. No.88
QBID:1153826

_____ it help you in your studies ?

1. will
2. was
3. is
4. are

(1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2305]
2[Option ID=2306]
3[Option ID=2307]
4[Option ID=2308]

Sl. No.89
QBID:1153828

I _____ never seen such a picture before.

1. did
2. was
3. have
4. has

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2313]
2[Option ID=2314]
3[Option ID=2315]
4[Option ID=2316]

Sl. No.90
QBID:1153827

Choose the correct answer ?

1. My friend has got a new job.
2. My friend has got a new work.
3. My friend is got a new job.
4. My friend did got a new job.

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2309]
2[Option ID=2310]
3[Option ID=2311]
4[Option ID=2312]

Sl. No.91
QBID:1153072

. Meaning of "Chicken Feed".

1. A very small money
2. A huge money
3. Food for thought
4. None of these

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2181]
2[Option ID=2182]
3[Option ID=2183]
4[Option ID=2184]

Sl. No.92
QBID:1153083

Unfortunately, he _____ a lot of money to the bank.

1. Borrowed
2. Owed
3. Deposited
4. Lent

(1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2185]
2[Option ID=2186]
3[Option ID=2187]
4[Option ID=2188]

Sl. No.93
QBID:1153087

A computer program that translates a program statement by statement into machine language is called a / an

1. Compiler
2. Simulator
3. Translator
4. Interpreter

(1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2189]
2[Option ID=2190]
3[Option ID=2191]
4[Option ID=2192]

Sl. No.94
QBID:1153089

What is the name of a web page address?

1. Directory
2. Protocol
3. URL
4. Domain

(1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2193]
2[Option ID=2194]
3[Option ID=2195]
4[Option ID=2196]

Sl. No.95
QBID:1153104

Bluetooth is a type of radio wave information transmission system that is good for about _____

1. A.30 feet
2. 30 yards
3. 30 miles
4. 300 miles

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2197]
2[Option ID=2198]
3[Option ID=2199]
4[Option ID=2200]

Sl. No.96
QBID:1153117

Open source software is software whose source code is available for modification or enhancement by anyone. Which of the following is an example of open source software?

1. Adobe Photoshop
2. Microsoft Word
3. Libre Office
4. Skype

- (1) 1
(2) 2
(3) 3
(4) 4

1[Option ID=2201]
2[Option ID=2202]
3[Option ID=2203]
4[Option ID=2204]

Sl. No.97
QBID:1153122

_____ is a technology that allows telephone calls to be made over computer networks like the Internet.

1. VoIP
2. GSM
3. Modem
4. CDMA

- (1) 1

- (2) 2
- (3) 3
- (4) 4

1[Option ID=2205]
2[Option ID=2206]
3[Option ID=2207]
4[Option ID=2208]

Sl. No.98
QBID:1153123

Back up of the data files will help to prevent

1. loss of confidentiality
2. duplication of data
3. loss of data
4. virus infection

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=2209]
2[Option ID=2210]
3[Option ID=2211]
4[Option ID=2212]

Sl. No.99
QBID:1153125

Which one of the following is different from other members ?

1. Google
2. Windows
3. Linux
4. Mac

- (1) 1
- (2) 2
- (3) 3
- (4) 4

1[Option ID=2213]
2[Option ID=2214]
3[Option ID=2215]
4[Option ID=2216]

Sl. No.100
QBID:1153127

..... is data that has been organized or presented in a meaningful fashion.

1. A process
2. Storage
3. Software
4. Information

- (1) 1

(2) 2

(3) 3

(4) 4

1[Option ID=2217]

2[Option ID=2218]

3[Option ID=2219]

4[Option ID=2220]