Directions (Questions ١-٥): Choose the word which best expresses the meaning of the und word in the sentence.

١. She is a very sensible person.
(١) rational (٢) cunning (٣) educated (٤) sensitive

٢. I am on the horns of dilemma these days.
(١) confusion (٢) clear
(٣) difficult situation (٤) favourable situation

٣. The musicians found out that they do not have ample time to go there.
(١) some (٢) enough (٣) much (٤) abundant

٤. The minister's speech was not comprehensible to the public.
(١) complement (٢) confident
(٣) able to be understood (٤) comprehensive

٥. Man is mortal.
(١) ever growing (٢) constantly active (٣) imperishable (٤) subject to death

Directions (Questions ٦-١٠): Choose the word which is closest to the opposite in meaning underlined word in the sentence.

٦. The Ganga is a pious river.
(١) impure (٢) terrible (٣) common (٤) pure

٧. Bravery is a good quality.
(١) Audacity (٢) Fearful (٣) Heroism (٤) Cowardice

٨. A unanimous decision was taken by the organization.
(١) great (٢) one-sided (٣) fair (٤) unfair

٩. She was very cheerful on her wedding day.
(١) overjoyed (٢) emotional (٣) happy (٤) cheerless

١٠. Educated parents make a virtuous circle.
(١) vicious (٢) long (٣) alternative (٤) good

Directions (Questions ١١-١٥): Choose the option which best expresses the meaning of the und idiom /phrase in the sentence.

١١. Peter was put in cold storage in the party.
(١) sadness (٢) ignored (٣) grief (٤) sympathy

١٢. Ravish showed crocodile tears at the death of his employee.
(١) happiness (٢) fake mourning (٣) weeping (٤) mourning

١٣. The President did away with the unpopular act.
(١) retain (٢) abolish (٣) distribute (٤) consider

١٤. A good weather friend is not a true friend.
(١) attentive friend (٢) faithful friend (٣) selfish friend (٤) caring friend

١٥. He cannot praise you unnecessarily because he calls a spade a spade.
(١) states clearly (٢) pretends (٣) makes things vague (٤) absconds

Directions (Questions ١٦-٢٠): In each of these questions, choose the word which can be subs
for the given sentence /words.

١٦. A book or work of art whose creator is not known.
(١) Unknown (٢) Unanimous (٣) Unidentified (٤) Anonymous

١٧. A disease which spreads by physical contact.
(١) Non infectious (٢) Contagious (٣) Untouchable (٤) Fatal

١٨. One who eats too much.
(١) Fat (٢) Obese (٣) Glutton (٤) Gorge

١٩. One who knows many languages.
(١) Bi-lingual (٢) Decoder (٣) Linguist (٤) Cryptologist

٢٠. Happening at the same time.
(١) Simultaneous (٢) Co-happening (٣) Coexistent (٤) Identical

Directions (Questions ٢١-٢٤): Fill in the blank.

٢١. Mounting unemployment is the most serious and _____ problem being faced by In
(١) dubious (٢) profound (٣) unpopular (٤) intractable

٢٢. His logic _____ everyone, including the experts.
(١) surprised (٢) teased (٣) mocked (٤) confounded

٢٣. The unruly behaviour of the students _____ their teacher.
(١) tempered (٢) clashed (٣) impeached (٤) incensed

٢٤. The children _____ crackers to celebrate the victory of their team.
(١) burst (٢) fired (٣) shot (٤) broke

Directions (Questions ٢٥-٣٠) Study the passages below and answer the questions that follow e
passage.

Passage-I

Complementary and alternative medicine, which includes a range of practices outside of con
medicine such as herbs, homeopathy, massage therapy, yoga, and acupuncture, hold incre
for Americans. In fact, according to one estimate, ٤٢٪ of Americans have used alternative th
In all age groups, the use of unconventional healthcare practices has steadily increased in t
years, and the trend is likely to continue, although people born before ١٩٤٥ are the least likel
to these therapies. Why have so many patients turned to alternative therapies? Many are fru
the time constraints of managed care and alienated by conventional medicine's focus on te
Others feel that a holistic approach to healthcare better reflects their beliefs and values. Ot
therapies that relieve symptoms associated with chronic disease; symptoms that mainstrea
cannot treat. Some alternative therapies have even crossed the line into mainstream me
scientific investigation has confirmed their safety and efficacy. For example, physicians may
currently prescribe acupuncture for pain management or to control the nausea associated w
chemotherapy. Additionally, many U.S. medical schools teach courses in alternative thera
many health insurance companies offer some alternative medicine benefits.

٢٥. What is the main idea of this passage?

(١) Alternative medicine is now a big business in the United States with more Americans seeking it out than ever before.

(٢) Today, it is not unusual for mainstream doctors to incorporate alternative therapies i practice.

(٣) Over the last few decades, alternative medicine has become more popular, accep practised in the United States.

(٤) People are tired of conventional medicine's focus on technology.

٢٦. According to the passage, which practice would not be defined as alternative medicine?

(١) Pain management
(٢) Acupuncture
(٣) Taking herbal garlic supplements
(٤) Massage therapy

٢٧. Based on the passage, what kind of person would be least likely to seek out alternative treatment?

(١) A senior citizen suffering from chemotherapy induced nausea.

(٢) A young woman suffering from chronic fatigue syndrome.

(٣) A ٤٥-year-old man who believes that his body and mind must be treated together.

(٤) A ٢٥-year-old track star with chronic back pain.

Passage-II

Sprouts not only contain a full spectrum of minerals، but during the process of soaking، germ and sprouting the mineral salts present undergo significant changes. The changed compou the water soluble variety، easily assimilated by the body. The quantum of nutrient present als increases in multiples. For example، sprouted moong has an ٨.٣٪ increase in water content seed. Its energy content decreases by ١٥٪، its carbohydrates content decreases by ٩٪ and its availability increases by ٣٠٪. All this makes it an ideal food for those who desire to lose weigh the same time، it provides a more than ample supply of vitamins، minerals and amino acids benefit of becoming a sproutarian is the fact that sprouts have a lot of fibre and water and he drive away constipation. The reduction in carbohydrate content indicates that many carb molecules are broken down during sprouting؛ and these react with atmospheric nitroge amino acids. The resultant protein has a simple molecular structure، and is the most digestib available in all foods. Also، during sprouting much of the starch gets broken down by en action into simple، pre-digested sugars such as glucose and sucrose. The proteins are con amino acids and amides، and this reduction in the amount of complex proteins ingested ageing and the degenerative diseases. A handful of common moong seeds can blossom ar the most complete of meals. After the seed has been sprouted، the calcium content increase potassium content increases by ٨٠٪، the iron content increases by ٤٠٪، the phosphorous c increases by as much as ٦٩٠٪. Sprouted sesame seeds too، are excellent for providing the bo easily assimilable minerals. They contain ١٠ times more calcium than cow's milk.

٢٨. Why is sprout most easily digestible in terms of its protein contents؟

(١) Protein has a simple molecular structure.

(٢) Calcium content is low، hence digestion is easy.

(٣) There is an increase in complex proteins.

(٤) Fats and oils are eliminated.

٢٩. Why is sprout an ideal choice of food for those who want to lose weights؟

(١) It contains digestive acids.

(٢) It is rich in calories.

(٣) It is rich in protein content.

(٤) It contains vitamins، minerals and amino acids.

٣٠. In which process do the minerals in sprouts undergo significant changes؟

(١) Spectral changes

(٢) Soaking، germination and sprouting

(٣) Assimilation

(٤) Radiation and Germination

٣١. In a projectile motion، the velocity is
(١) always perpendicular to the acceleration.
(٢) never perpendicular to the acceleration.
(٣) perpendicular to the acceleration for one instant only.
(٤) perpendicular to the acceleration for two instants.

٣٢. A cannon ball is fired with a velocity v in a direction making an angle θ with the horizonta
the highest point of its path it breaks into two parts of equal masses. One of the parts
the initial path of the ball. The speed of the second part immediately after explosion in r
be

(١) $\frac{٣}{٢}v\cos\theta$ (٢) $\sqrt{\frac{٣}{٢}}v\cos\theta$ (٣) $٢v\cos\theta$ (٤) $٣v\cos\theta$

٣٣. Mr. Naveen kicked off a football with an initial speed ١٩.٦ m/s at a projection angle
٤٥°. A receiver on the goal line ٦٧.٤ m away in the direction of the kick starts
running to meet the ball at that instant. What must be his speed so that he could
catch the ball before hitting the ground?
(١) ٢.٨٢ m/s (٢) $١٠/\sqrt{٣}$ m/s (٣) ٣٩.٢ m/s (٤) ١٠ m/s

٣٤. A car starts from rest to cover a distance s. The coefficient of friction between the road a
tyres is μ. The minimum time in which the car can cover the distance is proportional to _

(١) μ (٢) $\sqrt{\mu}$ (٣) $\sqrt{\frac{١}{\mu}}$ (٤) $\frac{١}{\sqrt{\mu}}$

٣٥. A particle moves along the x-axis from $x = x_١$ to $x = x_٢$ under the influence of a force give
$F = ٢x$. Then work done in the process is _____.
(١) zero (٢) $x_٢ - x_١$ (٣) $٢X_٢(X_٢-X_١)$ (٤) $٢X_١(X_١-X_٢)$

٣٦. The speed v reached by a car of mass m، driven with constant power P، is given by ____
(١) $v = \sqrt{\frac{٢xp}{m}}$ (٢) $v = \left(\frac{٢xP}{m}\right)^{١/٢}$ (٣) $v = \left(\frac{٣xP}{m}\right)^{١/٣}$ (٤) $v = \left(\frac{٣xP}{m}\right)^{٢}$

٣٧. A convex and a concave lens separated by distance d are then put in contact. The focal le
the combination
(١) decreases (٢) increases (٣) becomes ٠ (٤) remains the same

٣٨. Two discs of same thickness but of different radii are made of two different materials su
their masses are same. The densities of the materials are in the ratio ١ : ٣. The mom
inertia of these discs about the respective axes passing through their centres and perp
to their planes will be in the ratio _____.
(١) ١ : ٣ (٢) ٣ : ١ (٣) ١ : ٩ (٤) ٩ : ١

٣٩. A body weighs W Newton at the surface of the earth. Its weight at a height equal to h radius of the earth will be _____.

(١) $\frac{W}{٢}$ (٢) $\frac{٢W}{٣}$ (٣) $\frac{٤W}{٩}$ (٤) $\frac{٨W}{٢٧}$

٤٠. A geostationary satellite orbits around the earth in a circular orbit of radius ٣٦٠٠٠ km. Then, the time period of a satellite orbiting a few hundred kilometres above the earth's surface (REarth = ٦٤٠٠ km) will approximately be

(١) ١ h (٢) ١ h (٣) ٢ h (٤) ٤ h

٤١. A heavy uniform rod is hanging vertically from a fixed support. It is stretched by its weight. The diameter of the rod is

(١) smallest at the top and gradually increases down the rod.
(٢) largest at the top and gradually decreases down the rod.
(٣) uniform everywhere.
(٤) maximum in the middle.

٤٢. On bisecting a soap bubble along a diameter, the force due to surface tension on any o part will be _____.

(١) $٤\pi RT$ (٢) $\frac{٤\pi R}{T}$ (٣) $\frac{T}{٤\pi R}$ (٤) $\frac{٢T}{R}$

٤٣. In a seconds pendulum, mass of the bob is ٣٠ gm. If it is replaced by ٩٠ gm mass, then it period will be

(١) ١ sec. (٢) ٢ sec. (٣) ٤ sec. (٤) ٣ sec.

٤٤. The potential energy of a particle executing S.H.M. is ٢.٥ J, when its displacement is h amplitude. The total energy of the particle is _____.

(١) ١٨ J (٢) ١٠ J (٣) ١٢ J (٤) ٢.٥ J

٤٥. A simple pendulum has a metal bob, which is negatively charged. If it is allowed to os above a positively charged metallic plate, then its time period will

(١) increase. (٢) decrease. (٣) become zero. (٤) remain the same.

٤٦. A cylindrical bar magnet is kept along the axis of a circular coil. If the magnet is rotated its axis, then

(١) a current will be induced in the coil.
(٢) no current will be induced in the coil.
(٣) only an e.m.f. will be induced in the coil.
(٤) both e.m.f. and current will be induced in the coil.

٤٧. A body of mass ٤ kg is accelerated upon by a constant force، travels a distance of ٥ m i first second and a distance of ٢ m in the third second. The force acting on the body is

(١) ٢ N (٢) ٤ N (٣) ٦ N (٤) ٨ N

٤٨. In a double slit experiment، instead of taking slits of equal widths، one slit is made twice as the other. Then in the interference pattern the

(١) intensities of both the maxima and the minima increase.
(٢) intensity of maxima increases and the minima has zero intensity.
(٣) intensity of maxima decreases and that of the minima increases.
(٤) intensity of maxima decreases and the minima has zero intensity.

٤٩. Which of the following statements is incorrect؟

(١) Half-life of a neutron is ١٣ minutes.
(٢) The stability of a nucleus is determined by the number of neutrons present in it.
(٣) Both fast and slow neutrons are capable of penetrating a nucleus.
(٤) A free neutron decays into a proton، an electron and positron.

٥٠. The depletion layer in silicon diode is ١ μm wide and the knee potential is ٠.٦ V، then electric field in the depletion layer will be _____.

(١) zero (٢) ٠.٦ $Vm^{-١}$ (٣) ٦×١٠٤ V/m (٤) ٦×١٠٥ V/m

٥١. Which of the following is a scalar quantity؟

(١) Impulse (٢) Current (٣) Torque (٤) Momentum

٥٢. Human eye is most sensitive to the colour having wavelength of nearly

(١) ٦٨٠ nm. (٢) ٧٢٠ nm. (٣) ٤٨٠ nm. (٤) ٥٥٠ nm.

٥٣. A double converse lens of focal length ١٥ cm produces a distinct real image of an objec screen kept at ١٥٠ cm away from the object. On moving the lens alone، how many other images of the same object can be produced on the same screen؟

(١) Zero (٢) One (٣) Ten (٤) Two

٥٤. A person، standing near the edge of the top of a tall building throws two balls A and B. T B is thrown vertically upward while the ball A is thrown vertically downward، with the speed V. Then، the ball A hits the ground with a speed V while the ball B hits the ground w speed V'. Which of the following relationships is likely to hold true؟

(١) $V = V'$
(٢) $V < V'$
(٣) $V > V'$
(٤) The relationship between the speeds V and V' will depend on the height of the tall bu above the ground only.

٥٥. A vehicle with ٤٠ cm diameter wheels is moving with a speed of ١٨ m/s. Then, wheels of the vehicle are turning at a speed of

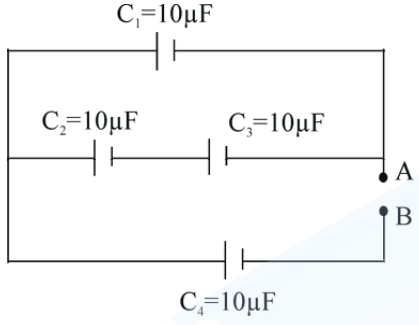
(١) ٩٠ revolutions/second. (٢) ٤٥ m/s.

(٣) ١٨ revolutions/second. (٤) ٤٥/π revolutions/second.

٥٦. The kinetic energy E of an object of mass m, having linear momentum p, will be _____

(١) p٢m٢ (٢) p٢/m٢ (٣) p٢/٢m (٤) p٢/m

٥٧. The capacitance across the terminal A and B of the electrical circuit, given below, is ____



(١) ٦μF (٢) ١٠μF (٣) ١٥μF (٤) ٥μF

٥٨. The angular momentum of a flywheel, having rotational inertia of ٠.١٦ kg m٢, decreas ٣.٢ kg m٢/s to ٠.٨ kg m٢/s in ١.٢s. The average torque acting on the flywheel during this is _____.

(١) ٢.٠ Nm (٢) ٢.٦ kg m٢/s٢ (٣) ٣.٩ kg m٢/s٢ (٤) ١.٦ Nm

٥٩. If a gymnast, sitting on a rotating stool, with his arms out-stretched, suddenly folds his

(١) moment of inertia decreases. (٢) angular velocity remains constant.

(٣) angular momentum decreases. (٤) angular momentum increases.

٦٠. The intensity ratio of two waves A and B is ١:٩. Then, the ratio of their amplitudes will be

(١) ٩:١ (٢) ١:٩ (٣) ١:٣ (٤) ٣:١

٦١. The total energy of a particle, executing simple harmonic motion (SHM) is proportional t

(١) its period. (٢) its phase angle.

(٣) the square of its amplitude. (٤) None of these

٦٢. A capacitor of capacitance ٩٠٠ pF is charged by a battery of ١٠٠ V. Then, the electrost energy stored by the capacitor will be _____.

(١) ٤.٥ μJ (٢) ٤.٥ nJ (٣) ٤.٥ J (٤) ٩ μJ

٦٣. The initial velocity of a body travelling along a straight line is ٢٠ ms$^{-١}$. If the retardation body is ٤ ms$^{-١}$, the distance moved by the particle in the ٥th second is _____.

(١) ٢ m (٢) ١٩ m (٣) ٧٥ m (٤) ١٠٠ m

٦٤. If the change in the value of 'g' at a height 'h' above the surface of the earth is the same depth 'x' below its surface, then

(١) $x = \frac{h}{٢}$ (٢) $x = ٠.٥\,h$ (٣) $x = ٢\,h$ (٤) $x = h$

٦٥. Terminal velocity of a body of a radius ' R' is directly proportional to _____.

(١) $R^{٢}$ (٢) $R^{-٢}$ (٣) R (٤) $R^{-١}$

٦٦. The temperature at which Celsius and Fahrenheit scale have the same reading is _____

(١) -١٠^{o} C (٢) -٢٠^{o} C (٣) -٣٠^{o} C (٤) -٤٠^{o} C

٦٧. The masses of two radioactive substances are same and their half lives are ١ year and respectively. The ratio of their activities after ٦ years will be

(١) ١ : ٤ (٢) ١ : ٢ (٣) ١ : ٣ (٤) ١ : ٦

٦٨. Which of the following statements is incorrect?

(١) Work done in the adiabatic process is greater than the work done in isothermal proces

(٢) Work done in the adiabatic process is directly proportional to the gas.

(٣) Work done in the adiabatic process is directly proportional to the temperature differe

(٤) $\frac{nR(T_{٢} - T_{١})}{\gamma - ١}$

٦٩. Work that must be done by a force on ١٠٠ kg body in order to accelerate it from ٠ to ٢٠ m ١٠ seconds is _____.

(١) ٢×١٠^{٤} J (٢) ٤×١٠^{٣} J (٣) ٤×١٠^{٤} J (٤) ٠.٢×١٠^{٣} J

٧٠. An ideal heat engine operates in Carnot cycle between ٢٢٧°C and ٣٢٧°C. It absorbs ٦ × calories at the higher temperature. Calculate the amount of heat converted into wor

(١) ١×١٠^{٤} calories (٢) ١.٦×١٠^{٤} calories (٣) ٢×١٠^{٤} calories (٤) ٣×١٠^{٤} calories

٧١. How many times more intense is a ٩٠ dB sound compared to ٤٠ dB sound?

(١) ١٠٥ (٢) ١٠٠ (٣) ١٠٠٠ (٤) $١٠^{٤}$

٧٢. A small particle carrying a negative charge of ٢ × ١٠−١٩ C is suspended in equilibrium bet the horizontal plates ١٠ cm apart، having a potential difference of ٢٠٠٠ V across them. T mass of the particle is (assuming g ~ ١٠ ms−٢)

(١) ٤ × ١٠−١٦ Kg (٢) ٥ × ١٠−١٦ Kg (٣) ٣ × ١٠−١٦ Kg (٤) ٢ × ١٠−١٦ Kg

٧٣. A wire is stretched to make it ٠.١٪ longer. The percentage change in its resistance is ____

(١) ٠.٢٪ (٢) ٠.١٪ (٣) ٠.٤٪ (٤) ٠.٨٪

٧٤. The ratio of the concentration of electrons to that of holes in a semiconductor is ٩/٥ and t of currents is ٩/٤، then the ratio of their drift velocities is _____.

(١) ٥/٤ (٢) ٣/٤ (٣) ٢/٣ (٤) ١/٣

٧٥. A ferromagnetic material is heated above its curie temperature. Which one is correct sta

(١) Ferromagnetic domains are perfectly arranged
(٢) Ferromagnetic domains become random
(٣) Ferromagnetic domains are not influenced
(٤) Ferromagnetic materials changes into diamagnetic materials

٧٦. If a current is given by $I=I_o \sin wt\left(-\frac{\pi}{٢}\right)$ flows in an A.C. circuit across which an A.C. potential $E=E_o \sin(wt)$ has been applied، then power consumption in the circuit will be __

(١) $P=E_o \frac{I_o}{٢\sqrt{٢}}$ (٢) $P=E_o \frac{I_o}{\sqrt{٢}}$ (٣) $P=E_o \frac{I_o}{٢}$ (٤) ٠

٧٧. Which of the following electromagnetic waves has the longest wavelength?

(١) Heat Waves (٢) Visible Light
(٣) Radio frequency waves (٤) Microwaves

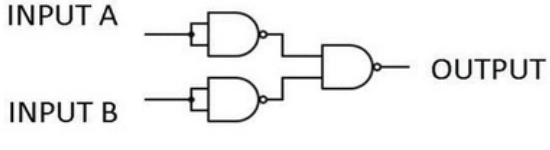
٧٨. The current relationship between two current gains (á، â) in a transistor is _____

(١) $\frac{\beta}{١+\beta}$ (٢) $\beta=\frac{\alpha}{١+\alpha}$ (٣) $\alpha=\frac{\beta}{١-\beta}$ (٤) $\alpha=\frac{\beta}{٢+\beta}$

٧٩. Operating point of a transistor is _____.

(١) zero signal value of I_C and V_{CE} (٢) zero signal value of I_B and V_{CC}
(٣) zero signal value of V_{CC} (٤) zero signal value of I_{CC}

٨٠. The GATE represented by block diagram is



(١) AND gate. (٢) OR gate. (٣) NOR gate. (٤) NAND gate.

८१. If A and B are square matrices of the same order r, then $(A+B)(A-B) =$ _____.

(१) $A^2-BA-AB-B^2$ (२) $A^2-B^2+BA-AB$ (३) A^2-B^2 (४) A^2-BA+B^2+AB

८२. There are two values of 'a' which makes $\begin{vmatrix} १ & -२ & ५ \\ a & २ & -६ \\ ० & ४ & २a \end{vmatrix} = ८६$, then the sum of these numbers is _____.

(१) ७ (२) ९ (३) -४ (४) ४

८३. For the function $f(x) = x^3 - ३x$, the value of c in the interval $\left[-\sqrt{३}, ०\right]$ by Rolle's theorem is _____.

(१) १ (२) -१ (३) $\frac{-३}{२}$ (४) $\frac{-१}{३}$

८४. If $x = t^2, y = t^3$, then $\frac{d^2y}{dx^2} =$ _____.

(१) $\frac{३}{४t}$ (२) $\frac{३}{२t}$ (३) $\frac{३}{२}$ (४) $\frac{३t}{४}$

८५. $\int_{a+c}^{b+c} f(x)dx =$ _____.

(१) $\int_{a-c}^{b-c} f(x)dx$ (२) $\int_{a}^{b} f(x-c)dx$ (३) $\int_{a}^{b} f(x+c)dx$ (४) $\int_{a}^{b} f(x)dx$

८६. $\int e^x \left(\frac{१-x}{१+x^2}\right)^2 dx =$ _____.

(१) $\frac{-e^x}{१+x^2} + c$ (२) $\frac{ex}{१+x^2} + c$ (३) $\frac{ex}{(१+x^2)^2}$ (४) $\frac{-ex}{(१+x^2)^2} + c$

८७. The angle between the vectors $\hat{i}$ and $\hat{j}-\hat{k}$ is _____.

(१) $\frac{-\pi}{३}$ (२) $\frac{\pi}{६}$ (३) $\frac{\pi}{३}$ (४) $\frac{२}{३}$

८८. Distance of point (α, β, r) from y-axis is _____.

(१) $|\beta|$ (२) $\alpha\sqrt{१+r^2}$ (३) α (४) $|\beta| + |r|$

८९. If A and B' are independent events then $P(A' \cup B) =$ _____.

(१) $P(A)P(B')$ (२) $P(A')P(B')$ (३) $P(A' \cap B')$ (४) $P(A')P(B)$

৯০. A man is known to speak truth ৩ out of ৪ times. He throws a dice and reports that it is a six. T
probability that it is actually a six is _____.

(১) $\frac{৩}{৪}$ (২) $\frac{১}{৬}$ (৩) $\frac{৩}{৮}$ (৪) $\frac{১}{৪}$

৯১. The domain and range of the real function f defined by $f(x)=\frac{৫-x}{x-৫}$ is given by _____

(১) Domain = R, Range = $\{-৫, ৫\}$ (২) Domain = R−$\{১\}$, Range = R
(৩) Domain = R−$\{৫\}$, Range = $\{-১\}$ (৪) Domain = R−$\{৫\}$, Range = $\{১\}$

৯২. If $\sin\theta+\operatorname{cosec}\theta=-২$, then $\sin^{২}\theta+\operatorname{cosec}^{২}\theta$=_____.

(১) ২ (২) ৪ (৩) −৪ (৪) −১

৯৩. The sum of the series $i+i^{২}+i^{৩}+\ldots\ldots+$ up to ১০০ terms is _____.

(১) i (২) −i (৩) ০ (৪) ১

৯৪. For a real number x if $|x|>২$, then _____.

(১) $x<২$ (২) $x>-২$ (৩) $-২>x>২$ (৪) $-২>x>২$

৯৫. The number of ways of selecting ১১ players from ২২ players always including ২ of them and
excluding ৪ of them is _____.

(১) ${}^{২০}C_{১১}$ (২) ${}^{১৬}C_{১১}$ (৩) ${}^{২০}C_{৯}$ (৪) ${}^{১৬}C_{৯}$

৯৬. The locus of the centre of a square made outside the circle $x^{২}+y^{২}=a^{২}$ on a chord of length eq
to radius is _____.

(১) $x^{২}+y^{২}=a^{২}\sqrt{(১)/২}$ (২) $x^{২}+y^{২}=a^{২}\sqrt{(১)/৪}$
(৩) $x^{২}+y^{২}=a^{২}\sqrt{(২+১)}$ (৪) $x^{২}+y^{২}=a^{২}\sqrt{(২+২)}$

৯৭. The triangle having the largest area in a circle of radius r has _____ as one of its si

(১) ২r (২) $\sqrt{৩}$r (৩) ২r / $\sqrt{৩}$ (৪) None of these

৯৮. For x = ২, which of the following statement is false?

(১) x is prime and x is even (২) x is odd or x is even
(৩) x is not prime and x is even (৪) x is odd or x is prime

৯৯. The diagonal of square made touching the hyperbola x . y = ২ tangentially is _____.

(১) ৪ $\sqrt{২}$ (২) ৪ $\sqrt{৩}$ (৩) ৩ $\sqrt{৩}$ (৪) ৪

১০০. The image of the point (১, ২, ৩) in a plane is (৩, ২, ১). The plane passes through the point __

(১) (৪, ৫, ৬) (২) (৫, ৪, ৬) (৩) (৪, ৫, ৪) (৪) (৪, ৫, ৫)

१०१. A plane passes through (१، ०، १)، (१، १، ०) and gives a circle of area π when intersect with sphere $x^2 + y^2 + z^2 = 1$. The normal to the plane passing through (२، ३، ५) also passes through _____.

(१) (३، २، ६) (२) (६، ३، २) (३) (३، २، ४) (४) (३، २، ५)

१०२. Normal to a plane at (१/२، ०، $\sqrt{३}/२$) has distance ०.५ unit from centre of unit sphere at origin. The area of circle cut by the plane to sphere is _____.

(१) $\pi\sqrt{४}$ (२) $\pi/३$ (३) $\pi/२$ (४) $\pi/४$

१०३. A largest sphere is made inside the sphere $x^2 + y^2 + z^2 = 1$ and outside the sphere $(x-1)^2 + (y-1)^2 + z^2 = 1$. The volume of the sphere is _____.

(१) $\pi\sqrt{३}$ (२) $\pi\sqrt{२}$ (३) $\pi\sqrt{३}$ (४) $\pi\sqrt{४}$

१०४. The plane passing through (१، २، ३)، (२، १، ३) and origin is rotated at right angle. The plane passes through the point _____.

(१) (१، १، १) (२) (२، ३، २) (३) (१، १، −१) (४) (३، २، ३)

१०५. A vector has components and ३ in rectangular coordinate. If the plane is rotated with ang counter clockwise، then its components $2a+1$ and १. The value of a is _____.

(१) −७/३، १ (२) ७/३، १ (३) −१، −७/३ (४) −१، ७/३

१०६. The vector $w = (2-a)i + (2+a)j + a^2k$ is parallel to plane containing the vector $u = 4i + j + k$ and $v = i + 2j + 3k$. The value of a is _____.

(१) $\frac{2}{7}(3+\sqrt{11})$ (२) $\frac{2}{7}(2+\sqrt{31})$ (३) $\frac{2}{7}(3+\sqrt{21})$ (४) $\frac{2}{7}(2+\sqrt{21})$

१०७. Vectors $u = ai + 5j + k$، $v = 2i + j + 5k$ and $w = i + 4j + (a-1)k$ are coplanar. Then a is _____.

(१) $\frac{2}{5}(1+\sqrt{39})$ (२) $\frac{2}{5}(3-\sqrt{39})$ (३) $\frac{3}{5}(1+\sqrt{39})$ (४) $\frac{2}{5}(1-\sqrt{39})$

१०८. In a biased dice، the probability of getting even number is twice of odd number. If two su dices are rolled، what is probability of getting a sum ९?

(१) १०/८१ (२) १८/८१ (३) १/१२ (४) ८/८१

१०९. Ram picks a random card out of pack of ५२ cards and if it is not a queen، he replaces and ag picks. How many cards، he should draw so that his probability of getting queen is at leas

(१) ६ (२) ७ (३) ८ (४) ९

११०. A cinema hall offers १०٪، २०٪ and ३०٪ of discount on tickets of type I، II، and III. If the ratio of tickets of type I، II and III are ५:३:२ and Shyam buys a ticket randomly، what is probability that he gets discount more than १०٪?

(१) ०.२५ (२) ०.३३ (३) ०.६६ (४) ०.५

١١١. The probability of a same birth date of at least two students in a class of ٢٠ students is ____

(١) ٠.٤١١ (٢) ٠.٥٨٨ (٣) ٠.٢٥ (٤) ٠.١١٤

١١٢. The number of solutions of ١٠ Sec٢(x) + ١٠ Tan٢(x) = ١١٠ for x in ٠، ٢π is _____

(١) ٠ (٢) ١ (٣) ٢ (٤) ∞

١١٣. The number of values of x in ٠، ٢π for which Cos(x/٢)، Sin(x) and Tan(x/٢) are in G.P. is

(١) ٠ (٢) ٢ (٣) ٤ (٤) ٦

١١٤. If ٢٠α = π، then value of Cot(α).Cot(٢α)...Cot(٩α) is

(١) −١ (٢) ∞ (٣) ١ (٤) −∞

is equal to

١١٥. If $\frac{١١z_١}{١٧z_٢}$ is purely imaginary، then $\left[\frac{٣z_١ + ٥z_٢}{٣z_١ - ٥z_٢}\right]$

(١) $\frac{١١}{١٧}$ (٢) $\frac{١٣}{١٩}$ (٣) $\frac{٣٣}{٨٥}$ (٤) None of these

١١٦. Let $z_١ = ١ - i$ and $z_٢ = ٣ + \sqrt{٢}i$، then the curve represented by $\left|\frac{z - z_١}{z - z_٢}\right| = ٧$ is a

(١) straight line. (٢) circle. (٣) parabola. (٤) None of these

١١٧. Let O be the origin and A and B be two points in the argand plane such that O، A and B are collinear and OA.OB = ١. If the point A is represented by z، then the point B is given by _____.

(١) $\frac{١}{\bar{z}}$ (٢) z (٣) $\frac{١}{z}$ (٤) None of these

١١٨. The centre of a square ABCD is at the origin and point A is represented by $\sqrt{٧}+٣i$. Then centroid of ΔBCDis represented by _____.

(١) $-\frac{\sqrt{٧}}{٣}i$ (٢) $١+i\frac{\sqrt{٧}}{٣}$ (٣) $\frac{\sqrt{٧}}{٣}+i$ (٤) $-١-\frac{\sqrt{٧}}{٣}$

١١٩. The number of ways in which ١١ different flowers can be strung to form a garland so that ٥ particular flowers are never separated is _____.

(١) ٥!.٦! (٢) ٥!.٧! (٣) ٧٦٤٠٠ (٤) None of these

١٢٠. The number of ways of distributing ٧ bananas among ٥ children so that each child receive atleast one banana is _____.

(١) ٢١ (٢) ٣٥ (٣) ١٥ (٤) ٧

١٢١. The total count of numbers of seven digits that can be made using the digits ١ to ٩ without repetition such that all the digits on the left of the digit in the middle are less than it and all the digits on the right of the digit in the middle are greater than the digit in the middle is _____.
(١) ٥٧٦ (٢) ١٢٩٦ (٣) ٨! (٤) None of these

١٢٢. The number of ٧ digit numbers in which no two adjacent digits are identical is _____
(١) ٩٠٨٦ (٢) ٩٢٠٨٥ (٣) ٩٣٠٨٤ (٤) ٩٧

١٢٣. If X is a singular matrix of order n، then X. (adjX) is _____.
(١) Identity matrix (٢) Null matrix (٣) Scalar matrix (٤) None of these

١٢٤. If A and B are square matrices of order ٣ such that $|A| = -٣$ and $|B| = ٥$، then $|٢AB|$ is _____
(١) −٦٠ (٢) ١٢٠ (٣) −١٢٠ (٤) ٦٠

١٢٥. Consider the system of equations $٢x - y + ٢z = ٢$؛ $x - ٢y + z = -٤$؛ $x + y + z = ٤$. The number of solutions of this system of equations is _____.
(١) ٠ (٢) ١ (٣) ٢ (٤) Infinitely many

١٢٦. Let $a \neq x b \neq y$ and $c \neq z$ and $\begin{vmatrix} a & b & z \\ x & b & c \\ x+a & y+b & ٢c \end{vmatrix} = ٠$، then $\frac{x}{x-a} + \frac{y}{y-b} + \frac{z}{z-c} =$ _____.
(١) ٠ (٢) ١ (٣) ٢ (٤) ٣

١٢٧. The range of function $f(x) = \log_{٣}(٩ - x^{٢})$ is _____.
(١) $(-\infty, ٣]$ (٢) $[-٣, ٣]$ (٣) $[٠, ٣]$ (٤) $(-٣, ٣)$

١٢٨. The function $f(x) = ٢\sin ٣x + ٣\cos \sqrt{٥}x$ is _____.
(١) periodic function with period ٢π
(٢) periodic function with period $\frac{٢\pi}{٣}$
(٣) periodic function with period $\frac{٢\pi}{\sqrt{٥}}$
(٤) not a periodic function

١٢٩. If $f(x) = \sin x - \cos x$ and $g(x) = ١ - x^{٢}$، then $g(f(x))$ is invertible in the domain _
(١) $\left[٠, \frac{\pi}{٢}\right]$ (٢) $\left[\frac{\pi}{٤}, \frac{\pi}{٢}\right]$ (٣) $\left[\frac{\pi}{٤}, \frac{\pi}{٢}\right]$ (٤) $[٠, \pi]$

١٣٠. Let $f: [-٣, ٠] \to R$ be given by $f(x) = e^{x} + \cos x$، then its extension to $[-٣, ٣]$ _____.
(١) $-e^{|x|} - \cos|x|$ (٢) $e^{-|x|} - \cos|x|$ (٣) $e^{-|x|} + \cos|x|$ (٤) $-e^{|x|} + \cos|x|$

১৩১. The Principal buffer present in human blood is _____.

(১) $NaH_2PO_4 + Na_2HPO_4$ (২) $H_3PO_4 + NaH_2PO_4$

(৩) $H_2CO_3 + HCO_3^-$ (৪) $CH_3COOH + CH_3COONa$

১৩২. Number of moles MnO_4^- required to oxidize one mole of ferrous oxalate in acidic mediu be

(১) ২.৫ mol. (২) ০.২ mol. (৩) ০.৬ mol. (৪) ০.৪ mol.

১৩৩. At a temperature of about ২০K (very low), which allotropes form of molecular hydrogen is stable?

(১) Ortho hydrogen (২) Para hydrogen

(৩) Both Ortho and Para hydrogen (৪) None of these

১৩৪. The order of increasing bond dissociation enthalpy of H–H, D–D and F–F molecules is _____.

(১) H–H > D–D > F–F (২) F–F > H–H > D–D (৩) F–F > D–D > H–H (৪) D–D > H–H > F–F

১৩৫. Which of the following anions is present in the chain structure of silicates?

(১) $(SiO_3^{2-})_n$ (২) $(Si_2O_5^{2-})_n$ (৩) SiO_4^{4-} (৪) $Si_2O_7^{6-}$

১৩৬. H_3BO_3 is

(১) Monobasic and weak Lewis acid. (২) Monobasic and weak Brφnsted acid.

(৩) Monobasic and strong Lewis acid. (৪) Tribasic and weak Brφnsted acid.

১৩৭. Percentage of lead in lead Pencil is _____.

(১) Zero (২) ২০ (৩) ৮০ (৪) ৭০

১৩৮. On mixing certain alkane with chlorine and irradiating it with U.V light, it forms only one monochloroalkane. The alkane is

(১) Isopentane. (২) Neopentane. (৩) Propane. (৪) Pentane.

১৩৯. The chemical reagent used to detect the presence of phenol in a given sample of organic compound is

(১) Tollen's reagent in presence of alkali.

(২) Neutral ferric chloride solution.

(৩) $(NaOH+I_2)$ solution.

(৪) Sodium Hydrogen Carbonate (Bicarbonate Test).

১৪০. The gases present in atmosphere that causes Greenhouse effect are
(১) Carbon Dioxide, Oxygen and Nitrogen.
(২) Carbon dioxide, Sulphur dioxide and Methane.
(৩) Nitrous oxide, Oxygen, and Water vapours.
(৪) Methane, Water vapours and Carbon dioxide.

১৪১. Structurally a biodegradable detergent should contain a
(১) Normal alkyl chain.
(২) Branched alkyl chain.
(৩) Phenyl side chain.
(৪) Cyclohexyl side chain.

১৪২. Lithium metal crystallises in a B.C.C structure. If the length of the side of the unit cell of lithium is ৩৫১ pm, the atomic radius of the lithium will be
(১) ১৫১.৮ pm.
(২) ৭৫.৫ pm.
(৩) ৩০০.৫ pm.
(৪) ২৪০.৮ pm.

১৪৩. A ৫.২৫% solution of substance is isotonic with ১.৫% solution of urea (molar mass = ৬০ g mol$^{-১}$) in the same solvent. If the densities of both the solution are assumed to be equal to ১.০ g cm
molar mass of the substance will be _____.
(১) ১০৫.০ g mol$^{-১}$
(২) ২১০.০ g mol$^{-১}$
(৩) ৯০.০ g mol$^{-১}$
(৪) ১১৫.০ g mol$^{-১}$

১৪৪. The correct order of equivalent conductance at infinite dilution among LiCl, NaCl and KCl
_____.
(১) LiCl < NaCl < KCl (২) NaCl < KCl < LiCl (৩) KCl < NaCl < LiCl (৪) LiCl < KCl < NaCl

১৪৫. For a first order reaction
(১) the degree of dissociation is equal to ($১-e^{-kt}$).
(২) a plot of reciprocal concentration of the reactant Vs. time gives a straight line.
(৩) the time taken for the completion of ৭৫% reaction is thrice the $t_{১/২}$ of the reaction.
(৪) the pre-exponential factor in the Arrhenius equation has the dimension of kJ mol$^{-১}$s^{-}

১৪৬. Which of the following barium salts is soluble in water?
(১) Barium Sulphate (২) Barium Carbonate (৩) Barium Nitrate (৪) Barium Phosphate

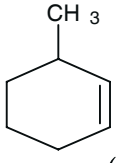
১৪৭. A gas can be liquefied
(১) below its critical temperature.
(২) above its critical temperature.
(৩) at its critical temperature.
(৪) at any temperature.

১৪৮. Fac-Mer isomerism is associated with which one of the following complexes (M=central metal)?
(১) $M(AA)_{২}$
(২) $MA_{৩}B_{৩}$
(৩) $M(AA)_{৩}$
(৪) $MA_{৪}B_{২}$

১৪৯. $(CH_{৩})_{৩}CMgBr$ on reaction with $D_{২}O$ produces _____.
(১) $(CH_{৩})_{৩}CD$
(২) $(CH_{৩})COD$
(৩) $(CD_{৩})_{৩}CD$
(৪) $(CD_{৩})_{৩}COD$

১৫০. Hybridization of nitrogen in pyridine is _____.
(১) sp^3d (২) sp^3 (৩) sp^2 (৪) sp

১৫১. The IUPAC name of the compound shown in the figure is



(১) ১-methylcyclohex-৫-ene. (২) ৬-methyl cyclohexene.
(৩) ১-methylcyclohex-২-ene. (৪) ৩-methylcyclohexene.

১৫২. The function of $AlCl_3$ in Friedal Craft's reaction is to
(১) produce nucleophile. (২) produce attacking electrophile.
(৩) absorb water. (৪) absorb HCl.

১৫৩. If two compounds have same empirical formula but different molecular formulae, they m
have
(১) same viscosity. (২) same vapor pressure.
(৩) different percentage composition. (৪) different molecular weights.

১৫৪. The C-H bond length is longest in _____.
(১) C_2H_2 (২) C_2H_4 (৩) C_2H_6 (৪) $C_2H_2Br_2$

১৫৫. The final product in the recation $CH_2CH_2—O—_2—Ag \rightarrow (X) \xrightarrow{\text{৪৭৩}} K \rightarrow Yis$
(১) Ethylene glycol. (২) Ethanol. (৩) Epoxyethane. (৪) None of these

১৫৬. Among the following the least reactive aldehyde is _____.
(১) C_2H_5CHO (২) C_6H_5CHO (৩) CH_3CHO (৪) HCHO

১৫৭. In the following reaction
$CH_3COOH + X \xrightarrow{-C—on—c.H} Y + CO_2 + N_2$, X and Y are respectively
(১) NH_3 and CH_3CONH_2 (২) NH_3 and CH_3NH_2
(৩) HN (৪) HN_3 and CH_3CONH_2

১৫৮. Ethyl isocyanide on hydrogen in acidic medium generates
(১) Methylamine salt and ethanoic acid.
(২) Ethanoic acid and ammonium salt.
(৩) Propanoic acid and ammonium salt.
(৪) Ethylamine salt and methanoic acid.

١٥٩. Natural rubber is a polymer of
(١) Isoprene. (٢) Phenol. (٣) Ethylene. (٤) Vinyl chloride.

١٦٠. Ester used as a medicine is
(١) Methyl salicylate. (٢) Ethyl benzoate. (٣) Methyl acetate. (٤) Ethyl acetate.

١٦١. Which of the following has largest number of atoms?
(١) ١g of Cu (٢) ٠.٥ mole of Cu (٣) ٠.٦٣٥ g of Cu (٤) ٠.٢٥ mole of Cu

١٦٢. The spin magnetic moment of the cobalt in the compound $Hg[Co(SCH)_4]$ is _____.
(١) $\sqrt{٢٤}$ (٢) $\sqrt{١٤}$ (٣) $\sqrt{١٥}$ (٤) $\sqrt{٨}$

١٦٣. The correct order of the electron affinity of the elements of the oxygen family in the periodic table is _____.
(١) S < Se < O (٢) O < S < Se (٣) Se < S < O (٤) S < O < Se

١٦٤. The number of the coordinate bond in HF_2^- is/are _____.
(١) ١ (٢) ٠ (٣) ٢ (٤) ١ or ٢

١٦٥. In the reaction $A(g) + ٣B(g) \Leftrightarrow ٤C(g)$, initial concentration of A is equal to that of B. The equilibrium concentration of A and C are equal. The equilibrium constant is equal to _____
(١) ٨ (٢) ٠.٨ (٣) ٠.٠٠٨ (٤) ١/٨

١٦٦. Which of the following is a compound whose ٠.١ M solution is basic?
(١) Sodium Acetate. (٢) Ammonium Acetate.
(٣) Ammonium Chloride. (٤) Ammonium Sulphate.

١٦٧. The critical temperature of water is higher than that of O_2 because the H_2O molecule has _____.
(١) V-shape (٢) Fewer electrons than O_2
(٣) Dipole-moment (٤) Two covalent bonds

١٦٨. Glass is a
(١) gel. (٢) polymeric Mixture.
(٣) microcrystalline solid. (٤) super cooled liquid.

١٦٩. Which is not a colligative property?
(١) Elevation of boiling point (٢) Osmotic pressure
(٣) Depression of freezing point (٤) Lowering of vapor pressure

১৭০. The highest electrical conductivity of the following aqueous solution is of
(১) ০.১ M Fluoroacetic acid. (২) ০.১ M Chloroacetic acid.
(৩) ০.১ M Acetic acid. (৪) ০.১ M Difluoroacetic acid.

১৭১. Hydrogen bomb is based on the principle of
(১) natural radioactivity. (২) nuclear fusion.
(৩) nuclear fission. (৪) artificial radioactivity.

১৭২. The bond angle and dipole moment of water are respectively _____.
(১) ১০৯.৫o and ১.৮৪ D (২) ১০৪.৫o and ১.৮৪ D
(৩) ১০২.৫o and ১.৫৬ D (৪) ১০৭.৫o and ১.৫৬ D

১৭৩. Which of the following ore contains both Cu and Fe?
(১) Malachite (২) Cuprite (৩) Chalcopyrites (৪) Chalcocite

১৭৪. The H-O-H angle in water molecule is _____.
(১) ৪৫o (২) ১০৫o (৩) ৯০o (৪) ১১৫o

১৭৫. Several blocks of magnesium are fixed to the bottom of a ship to
(১) prevent puncturing by undersea rocks. (২) prevent action of water and salt.
(৩) make the ship lighter. (৪) keep away the sharks.

১৭৬. The correct order of increasing C-O bond length of CO, CO_2, CO_3^{2-} is _____.
(১) $CO < CO < CO_2 < CO_3^{2-}$ (২) $CO < CO_3^{2-} < CO_2$
(৩) $CO < CO_2 < CO_3^{2-}$ (৪) $CO_3^{2-} < CO_2 < CO$

১৭৭. Boiling /melting point of following hydride follow the order _____.
(১) $SbH_3 < AsH_3 < PH_3 < NH_3$ (২) $SbH_3 < NH_3 < AsH_3 < PH_3$
(৩) $SbH_3 > AsH_3 > PH_3 > NH_3$ (৪) $AsH_3 < SbH_3 < PH_3 < NH_3$

১৭৮. Which of the following is paramagnetic compound?
(১) KO_2 (২) Na_2O_2 (৩) O_3 (৪) N_2O

১৭৯. Shape and hybridization of IF_5 respectively are_____.
(১) Pentagonal pyramidal, sp^3d^3 (২) Square pyramidal, sp^3d^2
(৩) See saw, sp^3d (৪) Trigonal bipyramidal, sp^3d

১৮০. Xenon hexafluoride reacts with Silica to form to Xenon Compound 'X'. The oxidation state of Xenon in 'X' is _____.
(১) +৬ (২) +৪ (৩) +২ (৪) ০

१८१. World Cancer Day is held on _____ every year to raise awareness of
(१) February ४ (२) March ४ (३) April ४ (४) May ४

१८२. Whom did Serena Williams defeat in the final to win the Australian Open २०१५ Women's Singles title?
(१) Venus Williams (२) Maria Sharapova (३) Ekaterina Makarova (४) None of these

१८३. Which technology giant became the first company in the world to reach a market value of billion?
(१) Microsoft (२) Google (३) Apple (४) Facebook

१८४. Which Indian Golfer has won the Malaysian Open २०१५?
(१) Jeev Milkha Singh (२) Arjun Atwal (३) Anirban Lahiri (४) Jyoti Randhawa

१८५. Saina Nehwal won the Syed Modi International India Grand Prix Gold badminton title २०१५ the women's singles category by defeating world champion Carolina Marin of
(१) Spain. (२) Denmark. (३) Malaysia. (४) Taiwan.

१८६. Airport Council International (ACI) has ranked _____ as the world's best airport in the २५-४० million passengers per annum (MPPA) category for the year २०१४.
(१) Rajiv Gandhi International Airport, Hyderabad
(२) Bengaluru International Airport, Bengaluru
(३) IGI Airport, New Delhi
(४) Chennai International Airport

१८७. _____ became the first batsman to hit double century in Cricket World Cup his
(१) Chris Gayle (२) Rohit Sharma (३) Virender Sehwag (४) Martin Guptill

१८८. Senior Journalist Vinod Mehta who passed away on ८ March २०१५ was associated with whic of the following magazines?
(१) Outlook (२) India Today (३) The Week (४) Tehelka

१८९. Indian Railways has signed an MoU with _____ to raise ₹ १० lakh crore for financing the development of its various commercially viable infrastructure projects.
(१) LIC of India (२) World Bank (३) State Bank of India (४) NHAI

१९०. Who among the following has been selected as the Brand Ambassador for the North East Region by the Indian Government?
(१) Baichung Bhutia (२) Mary Kom
(३) Sarita Devi (४) Somdev Devvarman

١٩١. The mass nesting of Olive Ridley sea turtles، an endangered species happens in which In state؟

(١) Odisha (٢) West Bengal (٣) Andhra Pradesh (٤) Tamil Nadu

١٩٢. _____has acquired the shopping search engine TheFind.

(١) Facebook (٢) Google (٣) Yahoo (٤) Twitter

١٩٣. National Photography Awards in India are given by Ministry of

(١) Information & Broadcasting. (٢) Human Resource Development.
(٣) Skill Development & Entrepreneurship. (٤) Tourism.

١٩٤. Who has authored the book "Indian Parliamentary Diplomacy – Speaker's Perspective"؟

(١) Meira Kumar (٢) Shivraj Patil
(٣) Somnath Chatterjee (٤) Manohar Joshi

١٩٥. India's indigenously developed Beyond Visual Range (BVR) air-to-air missile _____ successfully tested in March ٢٠١٥ from a Sukhoi-٣٠ fighter aircraft.

(١) Astra (٢) Shastra (٣) Prithvi (٤) Agni

١٩٦. National Green Tribunal (NGT) has announced a fine of _____on individuals littering or throwing waste on the railway platforms and tracks.

(١) ٥٠٠ (٢) ١٠٠٠ (٣) ٣٠٠٠ (٤) ٥٠٠٠

١٩٧. Who among the following won the best actress award in the ٦٢nd National Film Awards announced in March ٢٠١٥؟

(١) Kangana Ranaut (٢) Alia Bhatt (٣) Tabbu (٤) Baljinder Kaur

١٩٨. In March ٢٠١٥، NASA's curiosity rover has found evidence of _____o

(١) Oxygen (٢) Nitrogen (٣) Hydrogen (٤) plutonium

١٩٩. Which is the only country in the world where the Prime Minister، Parliament speaker، Lea the opposition، Deputy Leader of the house، and a major opposition leader are all wome

(١) Denmark (٢) Bangladesh (٣) Spain (٤) None of these

٢٠٠. Who is the richest man of India as per the Forbes Rich list ٢٠١٥؟

(١) Anil Ambani (٢) Mukesh Ambani (٣) Shiv Nadar (٤) Lakshmi Mittal