GUJCET - 3 (PCB)

DATE: 31.03.2023

(ENGLISH MEDIUM)

Subject: Physics

Physics

Q1: In a photoelectric experiment the stopping potential for the incident light of wavelength A999A is 2 volt. If the wavelength be changed to >999A , the stopping potential will be ____ ?

1) 2V
2) Zero
3) Less than 2 V
4) More than 2 V

Q2: A conductor has <A7A <9 <HZ positive charge. The conductor has ____ ?

1) 9 electrons in excess
2) 27 electrons in excess
3) 9 electrons in short
4) 27 electrons in short

Q3: Ratio of intensities of two waves are given by4: 1. nen ratio of the amplitudes of the two waves is ____ ?

1) 2: 1
2) 1 : 2
3) 4: 1
4) 1 : 4.

Q4: In a series LCR circuit, if the applied voltage – and the current in the circuit I at any instant are given as :

– N –9 and e N e9 1 2then which of the following holds good : ____ ?

1) l N <Z
2) l O <Z
3) l M <Z
4) none

Q5: A ray of light travelling inside a rectangular glass block of refractive index =is incident on the glass-air surface at an angle of incidence of AB . The refractive index of air is one. Under these conditions the ray will .... ?

1) emerge into the air without any deviation
2) be reflected back into the glass
3) be absorbed
4) emerge into the air with an angle of refraction equal to H9

Q6: Two parallel, long wires carry currents < and = with <O =7When the current are in the same direction, the magnetic field at a point midway between the wire is =9 n . If the direction of < is reversed, the field becomes >9 n . The ratio <8 = is: ____ ?

1) 4
2) 3
3) 5
4) $<$

Q7: A cell of internal resistance 3 ohm and emf 10 volt is connected to a uniform wire of length 500 cm and resistance 3 ohm. The potential gradient in the wire is

1) $\geq 9\ -8$
2) $<9\ -8$
3) $=9\ -8$
4) $\mathrm{A}\ -8$

Q8: **Assertion:** Neutrons penetrate matter more readily as compared to protons.
Reason: Neutrons are slightly more massive than protons.

1) Assertion is correct, reason is correct; reason is a correct explanation for assertion.
2) Assertion is correct, reason is correct; reason is not a correct explanation for assertion
3) Assertion is correct, reason is incorrect
4) Assertion is incorrect, reason is correct.

Q9: Beyond which frequency, the ionosphere bands any incident electromagnetic radiation but do not reflect it back towards the earth?

1) $\mathrm{B9md}$
2) $\mathrm{A9md}$
3) $\geq 9\mathrm{md}$
4) $=9\mathrm{md}$

Q10: A p-n junction is fabricated from a semiconductor with band gap of 2.8 eV. Can it detect a wavelength of 6000nm?

1) yes
2) No
3) Both
4) None

Q11: The frequency of ac mains in India is .... ?

1) 30 $\varepsilon 8$ or R
2) 50 $\varepsilon 8$ or R
3) 60 $\varepsilon 8$ or R
4) 120 $\varepsilon 8$ or R

Q12: The earth's magnetic field always has a vertical component except at the ---- ?

1) magnetic equator
2) magnetic poles
3) geographic north pole
4) latitude AB

Q13: Choose only false statement from the following ____ ?

1) In conductors the valence and conduction band overlap
2) Substance with energy gap of the order of 10 eV are insulators
3) The resistivity of a semi conductor increase with increase in temperature
4) The conductivity of semiconductor increase with increase in temperature

Q14: A positively charged particle moving due East enters a region of uniform magnetic field directed vertically upwards. This particle will .... ?

1) move in a circular path with a decreased speed
2) move in a circular path with a uniform speed
3) get deflected in vertically upward direction
4) move in circular path with an increased speed

Q15: equal resistors are first connected in series and then connected in parallel. What is the ratio of the maximum to the minimum resistance

1)
2) $\frac{\leq}{=}$
3) $=$
4) $\leq$

Q16: **Assertion:** Space waves are used for line-of-sight communication.
Reason: Space wave travels in a straight line from transmitting anttena to receiving antenna.

1) Assertion is correct, reason is correct; reason is a correct explanation for assertion.
2) Assertion is correct, reason is correct; reason is not a correct explanation for assertion
3) Assertion is correct, reason is incorrect
4) Assertion is incorrect, reason is correct.

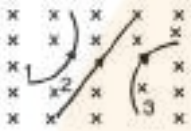
Q17: The sum of the number of neutrons and proton in the radio isotope of hydrogen is ____ ?

1) 6 2) 5 3) 4 4) 3

Q18: In a plane electromagnetic wave propagating in space has an electric field of amplitude H , then the amplitude of the magnetic field is ____ ?

1) 2) H
3) 4)

Q19: The charges move in uniform transverse magnetic field then:



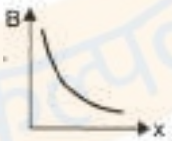
1) particle ' 1 ' positive and particle 3 negative
2) particle 1 negative and particle 3 positive
3) particle 1 negative and particle 2 neutral
4) particle 1 and 3 are positive and particle 2 neutral

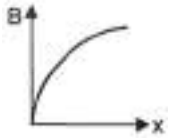
Q20: Calculate the rms value of electric field and magnetic field produced by the radiation coming from a 100 W bulb at a distance of 3 m. Assume that the efficiency of the bulb is 2.5% and it is a point source.

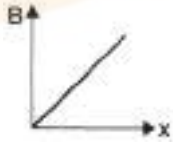
1) 2.9 V/m
2) 29 V/m
3) 29
4) 2.9×10^{-2} V/m

Q21: The variation of magnetic field F due to a long straight current-carrying wire with perpendicular distance from the wire is represented by the following curves. Select the correct curve.

1) 

2) 

3) 

4) 

Q22: The box of a pin hole camera, of length L, has a hole of radius a, It is assumed that when the hole is illuminated by a parallel beam of light of wavelength the spread of the spot (obtained on the opposite wall of the camera) is the sum of its geometrical spread and the spread due to diffraction. The spot would then have its minimum size (say b_{min}) when

1) 2 2) 4 3) 6 4) 8

Q23: Find the angle of minimum deviation for an equilateral prism made of a material of refractive index 1.732. What is the angle of incidence for this deviation ?

1) 60°, 30° 2) 30°, 60° 3) 90°, 60° 4) 60°, 60°

Q24: A parallel plate capacitor has an electric field of $<9^{B}-8$ between the plates. If the charge on the capacitor plate is $<H5$ the force on each capacitor plate is[Orissa JEE 20021

1) $97Bn$
2) $979Be$
3) $9799Bn$
4) None of these

Q25: Three equal charges each 4 are placed on the corners of an equilateral triangle of side x. Then the coulomb force experienced by one charge due to the rest of the two is ____ ?

1) $\frac{V^{=}}{x^{=}}$
2) $\frac{=V^{=}}{x^{=}}$
3) $\frac{>V^{=}}{x^{=}}$
4) zero

Q26: In refraction, light waves are bent on passing from one medium to second medium, because in the second medium.

1) Frequency is different
2) speed is different
3) Coefficient of elasticity is different
4) Amplitude is smaller

Q27: A long wire carrying a steady current is bent into a circular loop of one turn. The magnetic field at the centre of the loop is F. It is then bent into a circular coil of turns. The magnetic field at the centre of this coil of turns will be ____ ?

1) $=\mathrm{V}$
2) $=\ ^{=}F$
3) V
4) $\ ^{=}F$

Q28: In an TZ generator, a coil with n turns, all of the same area A and total resistance l, rotates with frequency in a magnetic field B. The maximum value of emf generated in the coil is ____ ?

1) N.A.B.R.
2) N.A.B.
3) N.A.B.R.
4) N.A.B.

Q29: The frequency of incident light falling on a photosensitive metal plate is doubled, the kinetic energy of the emitted photoelectrons is ____ ?

1) double the earlier value
2) unchanged
3) more than doubled
4) less than doubled

Q30: Magnetic lines of force due to a bar magnet do not intersect because ---- ?

1) a point always has a single net magnetic field
2) the lines have similar charges and so repel each other
3) the lines always diverge from a single force
4) the lines need magnetic lenses to be made to interest

Q31: Electrons in the atom are held to the nucleus by .... ?

1) coulomb's force
2) nuclear force
3) vander waal's force
4) gravitational force

Q32: In a p-n junction diode acting as a half-wave rectifier, which of the following statements is not true?

1) The average output voltage over a cycle is non-zero
2) The drift current depends on biasing
3) The depletion zone decreases in forward biasing
4) The diffusion current increases due to forward biasing

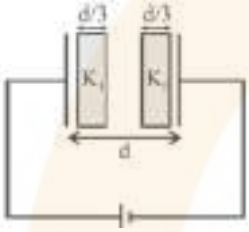
Q33: In a discharge tube ionization of enclosed gas is produced due to collisions between –

1) negative electrons and neutral atoms/molecules.
2) photons and neutral atoms/molecules.
3) neutral gas atoms/molecules.
4) positive ions and neutral atoms/molecules.

Q34: A torque of τ_B is required to hold a magnet at θ with the horizontal component of the earth's magnetic field. The torque to hold it at 2θ will be ____ ?

1) $B < \tau_C$
2) data is insufficient
3) $\leq \tau_B$
4) $B > \tau_C$

Q35:



Two dielectric slab of dielectric constant K_1 and K_2 and of same thickness is inserted in parallel plats capacitor and $K_1 = 2K_2$. Potential difference across slabs are V_1 and V_2 respectively then :-

1) $V_1 = V_2$
2) $V_1 = 2V_2$
3) $2V_1 = V_2$
4) $4V_1 = V_2$

Q36: The magnetism of magnet is due to .... ?

1) The spin motion of electron
2) Earth
3) Pressure of big magnet inside the earth
4) cosmic rays

Q37: The de-broglie wavelength of an electron and the wavelength of a photon are the same. The ratio between the energy of the photon and the momentum of the electron is

1) h
2) c
3) $\leq$
4) $\frac{\leq}{\varepsilon}$

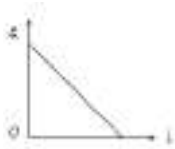
Q38: For previous objective, which of the following graphs is correct

1)

2)

3)

4)



Q39: In Davison-Germer experiment, an electron beam is incident on a crystal. The reflected beam consists of .... ?

1) photons
2) protons
3) -rays
4) electrons

Q40: Consider an electron of mass and charge e moving around a nucleus of charge $=\pi$ in circular orbit of radius . The initial frequency of light emitted by the electron is given as .... ?

1) $\left)\frac{<}{\mathrm{A}}\right.$ $\frac{\pi}{=}$
2) $\left)\frac{=}{\mathrm{A}}\right.$ $\frac{\pi}{=}$
3) $\left)\frac{=}{\mathrm{A}\,\pi}\right.$ $\frac{\pi}{=}$
4) $\frac{<}{\mathrm{A}}$ $\frac{\pi}{=}$

Subject: Chemistry

Chemistry

Q41: How many atoms of calcium will be deposited from a solution of $\mathrm{Z}\ \mathrm{Z}\ =$ by a current of 25 milliamperes flowing for 60 seconds

1) A7CF <9
2) A7CF <9
3) A7CF <9
4) A7CF <9

Q42: The major product of the following reaction is

1) a hemiacetal
2) an acetal
3) an ether
4) an ester

Q43: Aryl halide is less reactive than alkyl halide towards nucleophilic substitution because ---- ?

1) Less stable carbonium ion
2) Due to large ε ε bond energy
3) Inductive effect
4) Resonance stabilization and $=$- hybridisation of H attached to halide

Q44: Which species is not a pseudohalide ?

1) CNO^-
2) $RCOO^-$
3) OCN^-
4) NNN^-

Q45: Which of the following type of forces are present in nylon-6, 6?

1) Van der walls" forces of attraction
2) Hydrogen bonding
3) Three dimensional network of bonds
4) Metallic bonding

Q46: Statement I: A mixture of phenol and benzoic acid can be separated by extracting its etheral solution with aq. $e\ xRHg_{>}$ solution.Statement II: Phenol is a weaker base than carbonic acid.

1) Both Statement I and Statement II are correct and Statement II is the correct explanation of Statement I
2) Both Statement I and Statement II are correct but Statement II is not the correct explanation of Statement I
3) Statement I is correct but Statement II is incorrect
4) Statement II is correct but Statement I is incorrect

Q47: Aspirin is an acetylation product of $\oplus\mathrm{Vx}]\ \mathrm{s\ mz}\ <\mathrm{HF}\rightarrow$

1) o-hydroxybenzoic acid
2) o-dihydroxybenzene
3) -hydroxybenzoic acid
4) -dihydroxybenzene

Q48: Sulphur molecule is converted into sulphur ion, when it

1) Gains two electrons
2) Loses two electrons
3) Gains two protons
4) Shares two electrons

Q49: The catalyst used in Rosenmund reaction is ____ ?

1) $\sqrt{}$ 8d
2) s 8V xr A
3) Raney Ni
4) Na in Ethanol

Q50: Which one of the following compounds is not coloured

1) n =Z Z A
2) n =Z Z A
3) $V_A N\pi 1 He\ 2_C$
4) $V > N\pi 1 He\ 2_C$

Q51: Which one is liquid at room temperature?

1) Zd >Z
2) Z =d B Z
3) Zd >r
4) Z =d B V

Q52: The random or zig-zag motion of the colloidal particles in the dispersion medium is referred to as .... ?

1) Electro-osmosis
2) Electrophoresis
3) Brownian movement
4) Tyndall effect

Q53: Which one of the following will undergo meta-sustitution on monochlorination?

1) Ethoxybenzene
2) Chlorobenzene
3) Ethyl benzoate
4) Phenol

Q54: When a freshly precipitated substance is converted into a colloidal solution with the help of a third substance, the process i known as .... ?

1) Coagulation
2) Peptization
3) Electrodispersion
4) Dialysis

Q55: Which of the following intermediate species is/are formed in the reaction of CH_2= CH – COOH (Acrylic acid) with HBr to give 3-bromo propanoic acid?

1) I and II
2) III and IV
3) II, III and IV
4) I, II, III and IV

Q56: Phenyl isocyanides are prepared from which of the following reactions ⊕Z Vx] s mz ~~HH~~→

1) Rosenmund's reaction
2) Carbylamine reaction
3) Reimer-Tiemann reaction
4) Wurtz reaction

Q57: Which of the following silver compounds finds maximum use in photography

1) $C\phi H$
2) T V
3) $C\phi S$
4) $C\phi e\ g >$

Q58: Green chemistry means such reactions which ____ ?

1) produce colour during reactions
2) reduce the use and production of hazardous chemicals
3) are related to the depletion of ozone layer
4) study the reactions in plants

Q59: The metallic oxide which impart purple colour to pottery is ____ ?

1) Copper oxide
2) Chromium oxide
3) Lead oxide
4) Manganese oxide

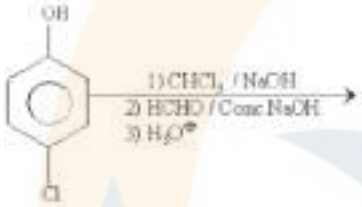
Q60: Dimethyl glyoxime reagent is used as co-ordinating reagent in the quantitative estimation of ____ ?

1) Copper
2) Palladium
3) Silver
4) Nickel

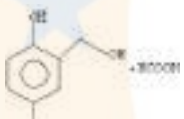
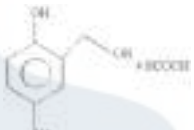
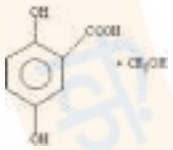
Q61: In the body centred tetragonal cystal system formed by square sheets, the co-ordination number is equal to - ____ ?

1) 6
2) 8
3) 12
4) none of these

Q62:



. The correct product is .... ?

1) 
2) 
3) 
4) 

Q63: In the catalytic oxidation of ammonia an oxide is formed which is used in the preparation of $\mathrm{dnr}_{>}$. This oxide is ____ ?

1) $e = g_{\mathrm{B}}$
2) $e = g_{\mathrm{A}}$
3) $e\ g =$
4) nr

Q64: Only stable organic fuctional group in which carbon is divalent is ____ ?

1) $HH =$
2) $HR =$
3) $HF =$
4) R–NC

Q65: Methylphenyl ether can be obtained by reacting

1) phenolate ions and methyl iodide
2) methoxide ions and bromobenzene
3) methanol and phenol
4) bromo benzene and methyl bromide

Q66: The E.A.N. of iron in $\oplus a\ 1\mathrm{Zn}\,2_{\mathrm{C}}\rightarrow$ is ____ ?

1) 32
2) 35
3) 38
4) 41

Q67: Which of the following statements is not applicable to chemisorption

1) It is slow
2) It is irreversible
3) It is highly specific
4) It is independent of temperature

Q68: Chemical formula of rust is

1) a r
2) $N\pi_{>}g_{\ A}$
3) $N\pi_{=}g_{\ >}\quad R_{=}g$
4) FeO. $R_{=}g$

Q69: Ethyl alcohol is industrially prepared from ethylene by .... ?

1) Permanganate oxidation
2) Catalytic reduction
3) Absorbing in $R_{=}mg$ a followed by hydrolysis
4) Fermentation

Q70: In the electrolytic cell, flow of electrons is from

1) cathode to anode in solution
2) cathode to anode through external supply
3) cathode to anode through internal supply
4) anode to cathode through internal supply

Q71: Acetone reacts with iodine $1e_{=}2$ to form iodoform in the presence of

1) Sodium iodide
2) Sodium hypoiodide
3) Iodine
4) None of the above

Q72: n-Butyl alcohol on dehydration forms β -butylene as the chief product. This happens because of the rearrangement- ____ ?

1) CH3–CH2–CH2–$HR_{=}$ to CH3–HR–CH2– CH3
2) CH3–CH2–CH2–$HR_{=}$ to (CH3)2CH–$HR_{=}$
3) CH3–HR–CH2–CH3 to (CH3)3H
4) $(CH_3)_3\ \ H$ to $CH_3 - CH_2 - CH_2 - HR_{=}$

Q73: Match the Column I and Column II.

	Column I		Column II
(A)	Impurity defect	(p)	n Z with anionic sites F-centres
(B)	Metal excess defect	(q)	a r with a $^{>4}$
(C)	Metal deficiency defect	(r)	n Z with x $^{=4}$ and some cationic sites vacant

1) (A)(r); (B)→(p); (C)→(q)
2) (A)→(p); (B)→(q); (C)→(r)
3) (A)→(r); (B)→(q); (C)→(p)
4) (A)→(q); (B)→(p); (C)→(r)

Q74: Which of the following has lowest boiling point

1) -nitrophenol
2) -nitrophenol
3) -nitrophenol
4) phenol

Q75: Among the following substances the lowest vapour pressure is exerted by .... ?

1) Water
2) Mercury
3) Kerosene
4) Rectified spirit

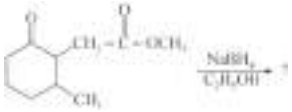
Q76: When phenyl magnesium bromide reacts with t-butanol, the product would be .... ?

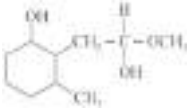
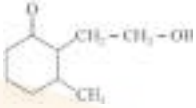
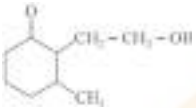
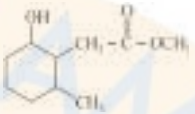
1) Benzene
2) Phenol
3) t-butyl benzene
4) t-butyl phenyl ether

Q77: In the titration between oxalic acid and acidified potassium permanganate, the manganous salt formed catalyses the reaction. The manganous salt is ____ ?

1) A promoter
2) A positive catalyst
3) An autocatalyst
4) None of these

Q78: The product formed in the following chemical reaction is :



1) 
2) 
3) 
4) 

Q79: Sulpha drugs are used for

1) Precipitating bacteria
2) Removing bacteria
3) Decreasing the size of bacteria
4) Stopping the growth of bacteria

Q80: If the bond length of Zr bond in carbon monoxide is $<7<FA$, then what is the value of Zr bond length in $a\ 1Zr\ 2_B$?

1) $<7<B$
2) $<7<F$
3) $<7E=$
4) $<7<<$

Subject: Botany

Section A

Q81: When the value of ' ' is significantly low as compared to other. It is better known by .... ?

1) Competition exclusion
2) Resource partition
3) Interference competition
4) Competition release

Q82: The 'niche' of a species is meant for

1) habitat and specific functions of a species
2) specific place where an organism lives
3) specific species function and its competitive power
4) none of these.

Q83: Which of the following is the result of double fertilization?

1) Cotyledon
2) Nucellus
3) Endosperm
4) None of these

Q84: Which of the following would appear as the pioneer organisms on bare rocks?

1) Mosses
2) Green algae
3) Lichens
4) Liverworts

Q85: Net primary productivity of an ecosystem is calculated as .... ?

1) GPP + Secondary productivity.
2) Secondary productivity – Respiratory losses.
3) GPP – Respiratory losses.
4) (GPP + Secondary productivity) - Respiratory losses

Q86: Assertion: Ants, bees and termite show parthenogenesis.
Reason: Parthenogenesis is the process in which new organism is formed without fertilization.

1) If both Assertion and Reason are true and the Reason is the correct explanation of the Assertion.
2) If both Assertion and Reason are true but the Reason is not the correct explanation of the Assertion.
3) If Assertion is true but Reason is false.
4) If both Assertion and Reason are false.

Q87: Which is the major crop in Asia?

1) Rice
2) Sugarcane
3) Jowar
4) Millet

Q88: Which of the following are advantages of ecological sanitation?
I. It is a practical, hygienic and efficient method of waste disposal
II. It is cost effective
III. Human excreta can be recycled into natural fertilisers, to replace chemical fertilisers

1) I and II
2) I and III
3) II and III
4) I, II and III

Q89: Secondary metabolites such as nicotine, strychnine and caffeine are produced by plants fortheir

1) Defence action
2) Effect on reproduction
3) Nutritive value
4) Growth response

Q90: The age pyramid with broad base indicates

1) high percentage of old individuals
2) low percentage of young individuals
3) a stable population
4) high percentage of young individuals.

Q91: Pollen grains can be stored for several years in liquid nitrogen having a temperature of .... ?

1) <⇒9 Z
2) F9 Z
3) <C9 Z
4) <HC Z

Q92: Apomictic embryos in Citrus arise from

1) Synergids
2) Maternal sporophytic tissue in ovule
3) Antipodal cells
4) Diploid egg

Q93: Which group of plants show clear cut vegetative, reproductive and senescent phases in their life cycle?

1) Mustard, Radish, Mango
2) Peepal, Mango, Banyan
3) Wheat, Rice, Cabbage
4) Peepal, Bryophyllum, Rice

Q94: The term 'biomagnification' refers to the ---- ?

1) Growth of organisms due to food consumption
2) Increase in population size
3) Blowing up of environmental issues by man
4) Increasing in the concentration of non-degradable pollutants as they pass through food chain

Q95: Sexual reproduction involves

1) meiosis only.
2) meiosis and fusion of gametes.
3) both mitosis and meiosis.
4) all of the above

Q96: The straight-breeding technique of crossing the related animals to increase the genetic purity and homozygosity of progeny is ____ ?

1) outbreeding
2) inbreeding
3) outcrossing
4) crossbreeding

Q97: Carbon monoxide is a pollutant because ---- ?

1) reacts with haemoglobin
2) makes nervous system inactive
3) it reacts with O_2
4) it inhibits glycolysis.

Q98: In an upright pyramid of biomass, the herbivores generally occupy which of the following position?

1) First position
2) Second position
3) Third position
4) Fourth position

Q99: Which of the following statements regarding the asexual reproduction is incorrect?

1) Both mitotic and meiotic division occurs.
2) It does not contribute to evolution and speciation.
3) It is uniparental and usually occurs in unicellular organisms.
4) There is no variation and the offsprings have the same phenotype and genotype.

Q100: The parameters carried out for managing dairy farm are

I. selection of both the male and female animals having high yielding potential and resistance to diseases
II. regular visits by a veterinary doctor
III. each animal should be fed on a balance ratio
IV. pay attention to good animal management and general supervision
Which of the above statement are correct?

1) I and II
2) I, II and III
3) II, III and IV
4) I, II, III and IV

Subject: Zoology

Section A

Q101: Chemical theory of origin of life was given by .... ?

1) Stanley Miller
2) Oparin and Haldane
3) Louis Pasteur
4) Spallanzani

Q102: in gene therapy of Adenosine Deaminase (ADA) deficiency, the patient requires periodic infusion of genetically engineered lymphocytes because :

1) Retroviral vector is introduced into these lymphocytes.
2) Gene isolated from marrow cells producing ADA is introduced into cells at embryonic stages
3) Lymphocytes from patient's blood are grown in culture, outside the body.
4) Genetically engineered lymphocytes are not immortal cells.

Q103: $z_<$-plasmid used in genetic engineering is obtained from

1) Bacillus thuringiensis
2) Agrobacterium rhizogenes
3) Agrobacterium tumefaciens
4) Psedomonas syringae

Q104: X-rays are used in .... ?

1) ECG
2) EEG
3) CT-scan
4) Endoscopy

Q105: Biological concept of species is mainly based on

1) Reproductive isolation
2) Morphological features only
3) Methods of reproduction only
4) Morphology and methods of reproduction

Q106: First polar body is formed during the formation of _____ and completion of ___ meiotic division.

1) Primary oocytes, II
2) Secondary oocytes, I
3) Secondary spermatocytes, II
4) Primary spermatocytes, I

Q107: Hepatitis-B and HIV spreads through

1) Sharing needless
2) Transfusion of blood
3) Infected mother to child
4) All of the above

Q108: High increase in human population is due to ____ ?

1) Increase in average life span
2) Better medical facilities
3) Decrease in death rate
4) All of these

Q109: The use of antihistamine, adrenaline and steroids quickly reduce the symptoms of .... ?

1) fungal disease
2) viral disease
3) allergy
4) helminthes disease

Q110: In 1997, the first transgenic cow Rosie produced human protein – enriched milk (2.4 grams per litre), milk contains : -

1) Alpha-lactaglobulin
2) Alpha-lactalbumin
3) Beta-lactaglobulin
4) Beta-lactalbumin

Q111: Receptors for spem binding in mammals are present on ____ ?

1) Corona radiata
2) Vitelline membrane
3) Perivitelline space
4) Zona pellucida

112: Stirred-tank bioreactors have been designed for

1) addition of preservatives to the product.
2) purification of the product.
3) ensuring anaerobic conditions in the culture vessel.
4) availability of oxygen throughout the process.

Q113: What is the correct chronological sequence of human evolution

1) Ramapithecus Australopithecus Homo erectus Neanderthal Homo sapiens sapiens
2) Ramapithecus Homo habilis Homo sapiens sapiens Homo erectus
3) Ramapithecus - Australopithecus - Homo habilis - Homo erectus
4) Homo habilis Australopithecus Homo erectus Homo sapiens sapiens

Q114: In vitro clonal propagation in plants is characterized by .... ?

1) PCR and RAPD
2) Northern blotting
3) electrophoresis and HPLC
4) microscopy.

Q115: Copper-T prevents ____ ?

1) Ovulation
2) Fertilization of egg
3) Implantation
4) Both (B) and (C)

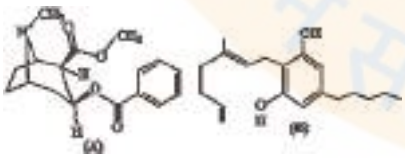
Q116: Which of the following secretes the homone, relaxin, during the later phase of pregnancy?

1) Graafian follicle
2) Corpus luteum
3) Foetus
4) Uterus

Q117: The embryonic membrane involved in the formation of placenta in human is ____ ?

1) Yolk sac
2) Allantois
3) Amnion
4) Chorion

Q118: Select the correct statement for A and B figure:



1) A is cannabinoid molecule and B is morphine.
2) Ganja is produced by A and heroin is produced by B.
3) Both A and B are potent painkillers.
4) A is a potent painkiller and B is cannabinoid molecule.

Q119: DNA or RNA segment tagged with a radioactive molecule is called _____ .

1) vector
2) probe
3) clone
4) plasmid

Q120: IVF in which the early zygote with up to …A… blastomere is transferred to the Fallopian tube is called …B… .

1) A-8; B-ZIFT
2) A-16; B-ZIFT
3) A-32; B-ZIFT
4) A-64; B-ZIF