

1.

- b. Linkage
- c. Changes in the sequence of gene in DNA
- d. Changes in the sequences of nitrogen bases

10.

d. Red Blood Cell

- a. Adrenal cortex
- b. Adrenal medulla
- c. Testis
- d. Ovary

35. Muscle spasm may occur due to the deficiency of

- a. Thyroxine
- b. Testosterone
- c. Parathyroid hormone
- d. Vasopressin

36. A Woman started developing male characteristics. It may be due to

- a. over production of adrenal androgen
- b. c.

d.d.

- c. both a and b
- d. amplification of sound

51. Optical fiber is based on phenomenon

- a. Total internal reflection
- b. Interference
- c. Diffraction.
- d. Polarization

52. In periodic table on moving left to right what happens

- a. Ionization energy decreases
- b. Electronegativity decreases
- c. Metallic character decreases
- d. Non Metallic Character decreases

53. What is the method of variation in asexually reproducing organisms

- a. Mutation
- b. Crossing over
- c. Fertilization
- d. Replication

54. Lichen is ecologically important because

- a. It is the association of algae and fungi
- b. It has mycorrhizal roots
- c. are earliest settlers of barren rocks
- d. can grow in polluted area

55. Sudden change in the gene is due to

- a. mutation
- b. crossing over
- c.

- e. H_2O
- f. H_2O_2
- g. O_2
- h. H_2O

68. An ester used as medicine is:

- a. Ethyl acetate

75. In a mature fertilized ovule n , $2n$ $3n$ condition respectively are
a.

- a. Thymus
- b. Thyroid
- c. Parathyroid
- d. Adrenal
- e. Ovary

84. Which of the following hormone belongs to catecholamine?

- b. Adrenaline
- c. Oxytocin
- d. Melatonin

85.

a. Cushing's syndrome

- c. Diabetes
- d. Hypertension

91. Food poisoning is caused by ingestion of food or drink contaminated with living bacteria or their toxins, inorganic chemical substances and poisons derived from plants & animals. The most common form of food poisoning is

d. Oxaloacetic acid

99. Final image formed by microscope is

115. Mycobacterium causes:

- a. Typhoid
- b. Tuberculosis**
- c. Malaria
- d. Meningitis

116.

d.

131. The number of cranial nerves in man is

- a. Protection
- b. Secretion
- c. Absorption



155. The term cell was first used by

- a. Schleiden
- b. Robert Hooke**
- c. Schwann
- d. Annelida

156. S1OTS stands for

- a. S1irectly observed treatment system
- b. S1irectly observed treatment short course**
- c. S1aily observed treatment system
- d. S1aily observed treatment short course

157. Which one of the following statements is true for cathode rays?

- a. It is stream of positively charged particles
- b. It emits x-rays**

163. In which process is oxygen a waste product?

- a. Active transport
- b. Aerobic respiration
- c. Anaerobic respiration
- d. Photosynthesis

164. Scientific forms for upper jaw bones is:

- a. Maxilla
- b. Mandible
- c.

- b. Cuttle fish
- c. Dog fish
- d. Cray fish

172. Spores in fern are found in

- a. leaves
- b. stem
- c. root
- d. branches

173. HCl is secreted by

- a.

187. Cancerous state of blood is called

- a. Proteinemia
- b. Uraemia
- c. Azotemia
- d. Leukemia

188.

195. Which of the following is keratinized?

- a. conjunctivae
- b. Mucous membrane of oral cavity
- c. Lining of vagina
- d. Skin

196. Synovial membrane is found in

- a. Joints
- b.

211. All cells have:

- a. a cell wall and cytoplasm
- b. a nucleus and a cell wall
- c. cell membrane and cytoplasm

- a. Fungus
- b. Virus**
- c. Bacteria
- d. Mycoplasma

220. Head of tapeworm is know as

Capitulum

- b. Proglotid**
- c. Scolex**
- d. Pygidium

221. Ascariasis is cause by

227. Salmonella Typhi mainly affects

- a. Large Intestine
- b. Liver
- c.

243. Giardiasis is treated by

- a. Metronidazole and tinidazole
- b. Albendazole & mebendazole
- c. DEC (Diethyl carbamazine)
- d. sodium stibogluconate

244. Alcohol is mainly absorbed from ...

- a. Stomach
- b. Duodenum
- c. Ileum
- d.

251.

265. Origin of

272. Plasma membrane is composed of

a. Proteins

- c. Lysine
- d. Glucose

280. Cardiac muscles are

- a. Striated and voluntary
- b. Striated and Involuntary**
- c. Smooth and voluntary
- d. Smooth and Involuntary

281. Which of

Chemistry

286.

300. The hydrogen phosphate of certain metal has a formula $MHPO_4$. The formula of

307. Which anion is the weakest base?

a. $\text{C}_2\text{H}_5\text{O}^-$

b. NO_3^-

c. F^-

321.

329. Heater is 1000W then energy consumes in 2 Hours is

- a. 2J
- b. 20 KJ

351. A proton of kinetic energy 2 MeV is moving perpendicular to a uniform magnetic field of 2.5 T. The force on the proton is:

a. 8×10^{-12} N

b.

358. In radiotherapy X -rays21413(us)4(ed)4()-4(t)-3(o)13(:)] TJETBT1 0 0 1 286.61 722.4 Tm[()] TJE

369. The oxidation number of Fe in $K_4Fe(CN)_6$ is:



381. The gas that can't be collected over water is:



394. Formation of sporophyte directly from prothallus is:

- a. parthenogamy b. diplospory c. apospory



419. Which

431.

440. Heart beat is controlled by which cranial nerve?

- a. Xth
- b. IXth
- c. IIIrd
- d. Vth

441. The fungus absorbs the food by:

- a. Mycelium
- b. Root
- c. Rhizome
- d. Thallus

442. Which of the following in a cell is non-living?

- a. Mitochondria
- b. Vacuole
- c.

450. Living cells contain 60 to 90% water. Water in human body is

- a. 60-65%
- b. 50-55%
- c. 75-80%
- d. 65-70%**

451. Digestive enzymes are

- a. Ligases
- b. Lyases
- c. Hydrolases**

468. Artificial sweetener which is stable under cold conditions only is:

- a. Saccharine b. Sucralose **c. Aspartame** d. Alitame

469. Which is the strongest acid in the following:

- a. H_2SO_4 b. HClO_3 **c. HClO_4** d. H_2SO_3

477. The percentage of gold in 18 carat gold is

a. 60%

b. 18%



507.



515. During which phase (S) of cell cycle, amount of DNA in a cell remains at 4C level if the initial amount is denoted as 2C?

a.

520. Which one of the following plants are Amphibia?

d. Gymnosperm

521. The initial step in the digestion of milk in humans is carried out by:

b. Trypsin

a. Lipase

c. Renin

d. Pepsin

522.

Which of the following is correct?

a.

555. A good producer of citric acid is:

- a. Aspergillus
- b. Pseudomonas
- c. Clostridium
- d. Saccharomyces

556. Artificial insemination means:

- a. Transfer of sperms of a healthy male donor to a test tube containing ova
- b.

561. The diagram shows an important concept in the genetic implication of DNA. Fill in the blanks A to C.

A	B	C	
DNA	in RNA	Protein	Proposed by

- a. A . transcription, B . replication, C . James Watson
- b. A . translation, B . transcription, C . Erevin chargaff
- c. A . transcription, B . translation, C . Francis crick
- d. A . Translation, B . Extension, C . Rosalind Franklin

562.

566. Which one is the most abundant protein in the animal world?

- a. Trypsin
- b. Haemoglobin
- c. Collagen
- d. Insulin

567. Gymnosperms are also called soft wood spermatophytes because they lack:

- a. Cambium
- b. Phloem fibres
- c. Thick walled tracheids
- d. Xylem fibres

568. Bulk of carbon dioxide (CO₂) released from body tissues into the blood is present as:

- a. Bicarbonate in blood plasma and RBC's
- b. Free CO₂ in blood plasma
- c. 70% carbamino hemoglobin and 30% as bicarbonate
- d. Carbamino . hemoglobin in RBC's

569. Which one of the following cona] TTJETBT (o)13(w)-14(i)[c7h14TBT/F2 11.04 Tf1 0 0 1 ETBT)4

576. Equimolar solutions of the following substances are prepared separately. Which one of these will record the highest pH value?

a. Ba Cl₂

b. Al Cl₃

c. Li Cl

581. A current loop in a magnetic field:

a.

594. Melatonin is produced by

- a) MSH b) TSH c) Hypothalamus d) Pineal gland

595.

624. Which one of the following is a fructose lichen?

- a) Graphis b) Parmelia c) Cladonia d) Rhizocarpon

625. A chordate may not have:

- a) Notochord b) Tubular nerve cord c) Gill slits d) Vertebral column

626.

649. Greenhouse effect is caused by

- a) Infrared rays b) UV rays c) X-rays d) Visible rays

650. Unit of magnetic permeability is

- a) Am^{-1} b) Am^{-2} c) H d) Hm^{-1}

651. Bernoulli's theorem is based on conservation of

- a) Mass b) Momentum c) Pressure d) Energy

652. The force of friction is 50 N in a body weighing 50 kg. Find the coefficient of friction

- a) 0.5 b) 2.5 c) 0.102 d) 0.201

653. A couple produces

- a) no motion b) purely linear c) Purely rotational motion d) linear and rotational motion

654.

662. Which of the following is character of Ionic bond

a) Low melting and boiling point

b) Insoluble in polar solvent

~~c) High melting and boiling point~~

d) High melting and boiling point

663. Which alcohol is formed from wa60(d f)-5(ro)1cohveETBT/F2 11.04 Tf1 0 0 1 396.07 730.7 Tmm

687. Formation of cynohydrin from ketone is an example of

- a) Nucleophilic addition
- b) Nucleophilic substitution
- c) Electrophilic substitution
- d) Electrophilic addition

688. A nitrate salt on heating with Aluminium powder and NaOH gives which of the following

- a) N₂O

700. Ovule integument gets transformed into

- a. Seed
- b.

713. Which is a sudden change in a gene or chromosome

- a. Allele b. Genotype c. Mutation d. phenotype

725. Which of the following hormones is NOT secreted by anterior lobe of the pituitary gland

- a. TSH b. Oxytocin c. Prolactin d. ACTH

726. The host that harbours the adult or sexually mature, parasite is called

- a. Intermediate host b. Reservoir host c. Definitve host d. Symbiotic host

727. The organ of corti in mammals is found in

- a. Vestibular canal

738.

745. Which reagent, when mixed and heated with ammonium sulfate, liberates ammonia?

- a. aqueous bromine b. dilute hydrochloric acid c. limewater d. potassium dichromate(VI) in acidic solution

754. The isomerism observed in Urea molecule is

A. Chain

B. Positional

755. Methyl acetate and ethyl acetate can be distinguished by

A. Potassium permanganate

B. Ferric chloride

756.

766.

778. The unit of magnetic permeability is

- a. A m^{-1} b. A m^{-2} c. H d. H m^{-1}

790. Mendelian recombination is due to

- a. Independent assortment of genes
- b. Linkage of genes

804.

817. The conversion of protein waste, the ammonia into urea occurs mainly in

a.Kidney

b.Lungs

c.Liver

d.Intestine

856. Bell metal is an alloy of

- A. Zn and Cu B. Zn and Pb C. Cu and Sn D. Cu and Ni

867. A change in temperature affects which property of sound?

a. Frequency

878. If a body loses half its velocity on penetrating 3 cm on a wooden block, then how much will it penetrate more before coming to rest?

a. 1 cm

b. 2 cm

c. 3 cm

d. 4 cm

879.

890. Edible fungus is

- a. Mucor b. Rhizopus c. Puccinia d. Agaricus

891. What is the contribution of Watson and Crick

- a. single stranded linear structure b. double helix structure of DNA
c. single coiled structure d. double linear structure

892. Nissl's granules are found in

- a. RBC b. Nerve cell

901.

913.

925. Genes involved in cancer are called

- a. Cancer genes b. Oncogenes c. Tumor genes d. Regulator genes

926. The full form of

947. Which one of the human cell do not contain mitochondria

- a. Nerve cells b. Red blood cells c. Liver cells d. White blood cells

948. By the statement 'survival of the fittest', Darwin meant that

- a. The strongest of all species survives b. The most intelligent of the species survives
c. The cleverest of the species survives d. The most adaptable of the species to change
survives

949.