

151. Which of the following type of cells of poriferans are called undifferentiated totipotent cells?
 (1) Interstitial cells (2) Collencytes
 (3) Archaeocytes (4) Pinacocytes
152. Which of the following is known as stag-horn coral?
 (1) *Tubipora* (2) *Alcyonium*
 (3) *Meandrina* (4) *Madrepora*
153. *Culex* mosquito passes through the different stages of development. Which of the following statement is incorrect w.r.t. it?
 (1) The eggs do not have lateral air floats
 (2) Larva is bottom feeder
 (3) Larva hangs obliquely from the surface of the water
 (4) Respiratory trumpets of pupa are short & broad
154. Which of the following character can't be related to class Amphibia?
 (1) Gills are present atleast in the larval stage
 (2) Lateral line system is found during their development
 (3) Larvae and tailed amphibians are uricotelic
 (4) Skull is dicondylic
155. Which type of feathers in birds are related to forming the general covering of the body?
 (1) Quills (2) Contours
 (3) Coverts (4) Remiges
156. Which of the following type of muscles have the minimum blood supply?
 (1) Red skeletal muscles
 (2) White skeletal muscles
 (3) Smooth muscles
 (4) Cardiac muscles
157. Which of the following type of neurons are rare in vertebrates but occur in cnidarians such as *Hydra*?
 (1) Non polar neurons (2) Unipolar neuron
 (3) Bipolar neurons (4) Multipolar neuron
158. Pharyngeal mass in the alimentary canal of *Pheretima posthuma* has glandular cells. These are
 (1) Chromophil cells & release proteolytic enzyme
 (2) Trophocytes & release amylase enzyme
 (3) Chromophil cells & release amylase enzyme
 (4) Trophocyte & release proteolytic enzyme
159. Ventral nerve cord of the *Periplaneta* has six abdominal ganglia. These are located in all of the following abdominal segments, except
 (1) First (2) Second
 (3) Fourth (4) Fifth
160. In frog, the origin of each spinal nerve from the vertebral ganglion is covered with soft, white calcareous masses, which are called
 (1) Glands of swammerdam
 (2) Periganglionic glands
 (3) Collateral ganglion
 (4) Both (1) & (2)
161. Which of the following is a non reducing disaccharide sugar?
 (1) Tréhalose (2) Maltose
 (3) Raffinose (4) Lactose
162. Which of the following is a storage polysaccharide and is not metabolised in human body?
 (1) Cellulose (2) Glycogen
 (3) Inulin (4) Starch
163. Which of the following is not neutral amino acid?
 (1) Valine (2) Alanine
 (3) Isoleucine (4) Asparagine
164. Which of the following is a nucleotide?
 (1) Cytidylic acid
 (2) Adenosine monophosphate
 (3) Uridylate
 (4) All of these
165. In a reaction being catalysed by the succinate dehydrogenase, if malonate is added, what will be the effect on the K_m value?
 (1) Will remain unaffected
 (2) Will increase
 (3) Will decrease
 (4) It varies from enzyme to enzyme
166. Most diverse type of molecules present in the cells are
 (1) Carbohydrates (2) Proteins
 (3) Lipids (4) Nucleic acid
167. Which of the following duct of the salivary gland opens into the oral cavity near the lower central incisors?
 (1) Stenson's duct (2) Ducts of Rivinus
 (3) Wharton's duct (4) Duct of wirsung

168. Which of the following cells are present in the bottom of Crypts of Lieberkuhn, are rich in zinc and secrete enzyme?
- (1) Goblet cells (2) Argentaffin cells
(3) Paneth cell (4) Enterocytes
169. Which of the following is unpaired cartilage present with the larynx part?
- (1) Arytenoid cartilage (2) Cricoid cartilage
(3) Corniculate cartilage (4) Cuneiform cartilage
170. When a person breathes normally, the amount which remains in the lung after normal expiration is
- (1) Expiratory capacity
(2) Functional residual capacity
(3) Expiratory reserve volume
(4) Tidal volume
171. Which of the following character can't be related to lymphatic capillaries when compared to blood capillaries?
- (1) Blind at the tip
(2) Wider than blood capillaries
(3) Add tissue fluid into intercellular spaces
(4) Don't have uniform diameter and are more permeable
172. The condition in which the heart muscle is contracting very rapidly but in an unco-ordinated fashion, is called
- (1) Fibrillation (2) Heart-failure
(3) Heart attack (4) Heart block
173. Which of the following are the fibrous cords which link the flaps of AV valve with the papillary muscles?
- (1) Chordae tendineae (2) Columnae carnaeae
(3) Trabeculae carnaeae (4) Musculi pectinati
174. The extensions of the cortex into the medulla part of kidney is called
- (1) Renal papilla
(2) Renal columns of Bertini
(3) Major calyces
(4) Renal fascia
175. Which of the following condition will not be true for a person showing increased osmolarity of the body fluids?
- (1) Increased level of Aldosterone
(2) Increased level of ADH
(3) Increased level of ANF
(4) Increased level of renin
176. Which of the following is not a correct pair of antagonistic muscles?
- (1) Biceps-Triceps (2) Adductor-Abductor
(3) Pronator-Flexor (4) Sphincter-Dilator
177. Which of the following is the most common type of lever in the body and has 'effort' in the middle while fulcrum and resistance are on the sides?
- (1) First-class lever (2) Second-class lever
(3) Third-class lever (4) Both (1) & (2)
178. Which of the following lobe of the cerebral hemisphere is related to decoding and interpretation of sound, language comprehension, smell, memory and emotions?
- (1) Frontal lobe (2) Temporal lobe
(3) Parietal lobe (4) Occipital lobe
179. Which of the following is not involved in the monosynaptic reflex arc?
- (1) Sensory neuron (2) Association neuron
(3) Motor neuron (4) Spinal cord
180. Which of the following gland occurs below the olfactory epithelium and secrete mucus to spread over the epithelium to keep it moist?
- (1) Bowman's gland (2) Natrial glands
(3) Goblet cells (4) Krause's bulb
181. Excess of which of the following hormone causes demineralisation, resulting in softening & bending of the bones and some of the bone substance is replaced by cavities that are filled with fibrous tissue?
- (1) PTH (2) Calcitonin
(3) Estrogen (4) Calcitriol
182. Formation of drones in the honey bee can be taken as an example of
- (1) Incomplete parthenogenesis
(2) Thelytoky
(3) Obligatory parthenogenesis
(4) All of these
183. Which of the following statement is incorrect w.r.t. human reproductive system?
- (1) The endometrium is inner glandular layer that lines the uterine cavity in female
(2) The primary follicle containing secondary oocyte undergoes meiosis - I to change into secondary follicle during oogenesis
(3) Fine ciliated ductules, the vasa efferentia arise from the rete testis in male reproductive system
(4) Hydrocoele is collection of fluid, usually in tunica vaginalis of the testis

184. Which of the following is **not** derived from the mesoderm?
- (1) Duramater, microglia
 - (2) Notochord
 - (3) Membranous labyrinth (internal ear)
 - (4) Adipose tissue, reticular tissue
185. IUDs are inserted in the uterus through vagina. Which of the following is included in a type of non-medicated IUD?
- (1) CuT
 - (2) Multiload 375
 - (3) Lippe's loop
 - (4) LNG-20
186. Which of the following ruminating horse arose from *Meshippus* in Miocene epoch about 25 million years ago?
- (1) *Merychippus*
 - (2) *Orohippus*
 - (3) *Parahippus*
 - (4) *Pliohippus*
187. Which of the following pair is mismatched w.r.t. convergent evolution of Australian marsupials and placental mammals?
- (1) Mole and marsupial mole
 - (2) Bobcat and Tasmanian tiger cat
 - (3) Lemur and Numbat
 - (4) Flying squirrel and flying phalanger
188. Which of the following can't be taken as the characteristic of Neanderthal man?
- (1) Legendary cave dweller
 - (2) Adapted to cold environment
 - (3) Brain size 1400 cm³
 - (4) Evolved into modern man
189. Which of the following type of hepatitis is known as 'infectious hepatitis' and is spread by ingestion of contaminated water and food?
- (1) Hepatitis A
 - (2) Hepatitis B
 - (3) Hepatitis C
 - (4) Hepatitis D
190. Which of the following type of antibody is the second most abundant antibody and protects from inhaled or ingested pathogens?
- (1) IgG
 - (2) IgA
 - (3) IgD
 - (4) IgE
191. Which of the following is the hallucinogen and is obtained from the spineless cactus?
- (1) LSD
 - (2) Psilocybin
 - (3) Methadone
 - (4) Mescaline
192. Which of the following effect can be related to the alcoholic person?
- (1) Cholestasis
 - (2) Mallory's hyaline
 - (3) Fatty liver syndrome
 - (4) All of these
193. Which of the following is a deficiency disease in poultry and is characterized by enlargement of tibiotarsal joint?
- (1) Coccidiosis
 - (2) Pullorum
 - (3) Perosis
 - (4) Mycosis
194. Which of the following breed of Indian cattle is not included under 'Milch breed'?
- (1) Gir
 - (2) Sahiwal
 - (3) Deoni
 - (4) Hallikar
195. Fish meat is better when compared to other types because it has more
- (1) Carbohydrate
 - (2) Fat
 - (3) Protein
 - (4) Cholesterol
196. Which of the following restriction endonuclease enzyme will make a blunt cut or leaves behind flush end?
- (1) *EcoRI*
 - (2) *SalI*
 - (3) *BamHI*
 - (4) *SmaI*
197. Which of the following is **not** true w.r.t lambda phage vector?
- (1) Double stranded, linear DNA
 - (2) Cohesive end sites present
 - (3) Unpaired 12 bases at each end
 - (4) Allow cloning of DNA fragments upto 250 kb
198. If *PstI* is used to insert gene 'X' into pBR322 to make it recombinant vector. The resultant recombinant cell will
- (1) Survive in the medium containing ampicillin
 - (2) Survive in the medium containing tetracycline
 - (3) Survive in the medium containing ampicillin and doesn't survive in the presence of tetracycline
 - (4) Both (1) & (3)
199. Which of the following recombinant protein finds its therapeutic use as vaccine for Hepatitis C?
- (1) DNAase
 - (2) Reo Pro
 - (3) Interferon-alpha
 - (4) OKT-3
200. Which of the following was the first transgenic animal for food production?
- (1) Transgenic sheep
 - (2) Transgenic fish
 - (3) Transgenic chicken
 - (4) Transgenic goat

