

PAPER-2 ANIMAL PHYSIOLOGY

SEMESTER-II, INTERNAL- I

- 1) Open type of circulation found in [a]
a) Arthropods b) Helminthes c) Annelida d) None
- 2) Annelids exhibit which type of circulation [a]
a) Close type b) Open type c) a & b d) None
- 3) Amphibians have how many chambered heart [d]
a) 4 b) 6 c) 5 d) 3
- 4) Duration of cardiac cycle [c]
a) 9 sec b) 1 min c) 0.8 sec d) 5 sec
- 5) Hemoglobin is [a]
a) Respiratory pigment b) Excretory c) Digestive d) None
- 6) Normal blood pressure [b]
a) 60/20 b) 120/80 c) 10/80 d) 130/60
- 7) Anticoagulants are [d]
a) Warfarin b) Citrates c) Heparin d) a & c
- 8) Blood clotting factors are [b]
a) 8 b) 12 c) 4 d) 6
- 9) Myogenic heart is made up of [b]
a) Nerves b) Muscles c) Tissues d) None
- 10) Hypoxia means [a]
a) Low amount O₂ b) Low amount of CO₂
c) High amount CO₂ d) High amount of CO₂
- 11) Which of the following is not a type of muscle tissue found in animals? [d]
a) Skeletal muscle b) Cardiac muscle c) Smooth muscle d) Adipose tissue
- 12) What is the main function of the kidneys in animals? [c]
a) Regulation of blood pressure b) Regulation of blood sugar level
c) Regulation of electrolyte balance d) Regulation of body temperature
- 13) Reabsorption of water via the DCT is by which of the following? [c]
a) Renin b) Aldosterone c) Vasopressin d) Glucocorticoid
- 14) Osmoregulators carry out excretion through [a]
a) Gills b) Fins c) Scales d) Bladder
- 15) Which of the following is not a ruminant animal? [c]
a) Cow b) Buffalo c) Dog d) Goat
- 16) What is false at high altitude? [d]
a) Partial pressure of oxygen is lower b) total pressure is lower
c) Partial pressure of CO₂ is lower d) pressure of gas molecules that are oxygen is lower.

- 17) Which of the following is not a process of urine formation? [d]
a) Glomerular filtration b) Reabsorption c) Secretion d) Excretion
- 18) Aestivation is typically observed in animals during which condition? [c]
a) Extreme cold temperatures b) High altitudes c) Hot and dry conditions d) None
- 19) In ruminants which compartment is responsible for fermentation of plant material? [c]
a) Stomach b) Cecum c) Rumen d) Small intestine
- 20) The closure of AV valves occurs during? [b]
a) Atrial systole b) ventricular systole c) ventricular diastole d) Atrial diastole

II. Fill in the Blanks.

- 1) Mammals have **four** Chambered heart.
- 2) Size of the heart **size as your fist**
- 3) Arteries carry **oxygenated blood.**
- 4) Normal heart beats **60-100** /minutes.
- 5) Neurogenic heart is made up of **nerves.**
- 6) ECG stands for **electrocardiogram.**
- 7) Closed type of circulation found in **vertebrates.**
- 8) Intra cerebral hematoma means **bleeding within the brain.**
- 9) Hemoglobin has **four** Polypeptide chains.
- 10) Hypercapnea is presence of excess **CO₂.**
- 11) Oxygen toxicity is otherwise called as **oxygen poisoning.**
- 12) GFR means **glomerular filtration rate.**
- 13) Adenine and guanine are **purines.**
- 14) The **kidney** is the organ responsible for filtering waste products from the blood.
- 15) **Nephron** is the structural and functional unit of kidney.
- 16) Process by which food is broken down into simpler substances is **digestion.**
- 17) primary site for gas exchange is **alveoli.**
- 18) **Smooth muscle** is responsible for movement of food in digestive tract.
- 19) **Actin and myosin** are the proteins found in muscle fibers.
- 20) **Hemoglobin** is responsible for transport of oxygen.

III. Answer the following questions.

1) Cardiac cycle.

2) Name the blood clotting factors?

3. oxygen toxicity?

4. osmoregulation.

5. ruminant digestion.