

PHYSIOLOGY – Paper I**QP Code: 2527****(QP contains two pages)**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

Section - A

Multiple Choice Questions**10 X 1 = 10 Marks**

1. Conjugation of bilirubin occurs in
 - a. Erythrocytes
 - b. Granulocytes
 - c. Hepatocytes
 - d. Lymphocytes
2. Function of rough endoplasmic reticulum
 - a. ATP synthesis
 - b. DNA synthesis
 - c. Protein synthesis
 - d. Cell division
3. Hormone secreted by kidney
 - a. Angiotensin
 - b. Aldosterone
 - c. Renin
 - d. Cortisol
4. Most common blood group in India
 - a. A
 - b. B
 - c. AB
 - d. O
5. Achalasia cardia is characterized by
 - a. Relaxation of lower oesophageal sphincter
 - b. Cardiac failure
 - c. Accumulation of food in oesophagus
 - d. Spasm of lower oesophageal sphincter
6. Haemophilia is inherited as
 - a. X-linked dominant
 - b. X-linked recessive
 - c. Y-linked dominant
 - d. Autosomal disease
7. Which component of BP undergoes much less fluctuations?
 - a. Systolic BP
 - b. Diastolic BP
 - c. Mean arterial pressure
 - d. Pulse pressure
8. P wave of ECG produced due to
 - a. Atrial repolarization
 - b. Atrial depolarization
 - c. Ventricular repolarization
 - d. Ventricular depolarization
9. Marey's law denotes relationship between heart rate and
 - a. Conductivity
 - b. Force of contraction
 - c. Blood volume
 - d. Blood pressure

10. Juxta glomerular cells are located in
- Afferent arteriole
 - Efferent arteriole
 - Distal convoluted tubule
 - Collecting duct

Section B

LONG ESSAYS (Answer any two)

2 X 10 = 20 Marks

- Describe mechanism of oxygen transport. Add a note on oxygen dissociation curve.
- Describe Rh blood group system. Add a note on transfusion reaction.
- Explain the functions of pancreatic enzymes. Discuss regulation of pancreatic juice secretion.

SHORT ESSAYS (Answer any ten)

10 X 5 = 50 Marks

- Describe active transport mechanism.
- Describe pressure changes during respiration.
- Explain chemical regulation of respiration.
- Compare first and second heart sound.
- Define and classify jaundice.
- Describe acclimatization.
- Explain origin and conduction of cardiac impulses.
- Explain laboratory tests for coagulation and bleeding disorders.
- Describe coronary circulation.
- Describe Micturition reflex.
- Explain composition and function of surfactant.
- Describe functions of liver.

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