

**GOVERNMENT OF KERALA**  
**PARAMEDICAL COUNCIL**  
**DIPLOMA IN HEALTH INSPECTOR COURSE**  
**First Year Examination Regular and Reappearance January 2026**  
**PAPER I - Anatomy & Physiology**

**Time: 3 hrs.**

**Marks: 100**

**1. Choose the correct answer:**

**(1x10=10 Marks)**

1. Membrane covering a bone  
a) Perichondrium      b) Periosteum      c) Sarcolemma      d) Serous membrane
2. Seventh cranial nerve  
a) Facial nerve      b) Olfactory nerve      c) Optic nerve      d) Vagus nerve
3. Life span of RBC  
a) 120days      b) 12days      c) 100days      d) 300days
4. The pacemaker of heart  
a) AVnode      b) SANode      c) Bundle of His      d) Purkinje fibers
5. The type of muscle seen in arterial wall  
a) Skeletal muscle      b) Smooth muscle      c) Striated muscle      d) None of these
6. Pulmonary veins carry..... blood  
a) Oxygenated      b) Deoxygenated      c) Mixed      d) None of these
7. Widest portion of fallopian tube  
a) Isthumus      b) Fimbriae      c) Ampulla      d) Infundibulum
8. Glomerular filtration rate/min  
a) 125ml/min      b) 180ml/min      c) 100ml/min      d) 200ml/min
9. The study of cells  
a) Pathology      b) Cytology      c) Histology      d) Haematology
10. An example of irregular bone  
a) Vertebrae      b) Sternum      c) Patella      d) Rib

**II. Fill in the blanks:**

**(1x5=5 Marks)**

1. ....reduces all fats to fatty acid and glycerol.
2. The nerve of hearing.....
3. Break down of.....provides energy for muscle contraction.
4. The blood group that can be considered as a universal recipient is.....
5. ....is called vertebrae prominens.

**III. Name the following:**

**(1x5=5 Marks)**

1. Male sex hormone
2. Structural and functional unit of kidney.
3. Foetal lung
4. Largest papillae of tongue
5. Fluid portion of blood.

**IV. State whether True or False:**

**(1x5=5 Marks)**

1. The modified sweat gland present in the skin of ear is sebaceous gland.
2. Outermost layer of heart is perimetrium
3. Pulmonary veins carry deoxygenated blood.
4. The respiratory center is more sensitive to the amount of CO<sub>2</sub> in the blood.
5. Hair and nails are modified cells of dermis.

**V. Match the following:****(1x5=5 Marks)**

1. Transitional epithelium - sensory area
2. Hinge joint - Buttocks
3. Gluteal muscle - Chondrocyte
4. Cartilage - synovial joint
5. Occipital lobe - Urinary bladder
- Visual area

**VI. Expand the following****(1x5=5 Marks)**

1. GIS
2. LTH
3. ADP
4. COP
5. DNA

**VII. Answer in two to three sentences:****(2x5=10 Marks)**

1. Cauda equina
2. Menstruation
3. Stroke volume
4. Synapse
5. Iris

**VIII. Write short note on any five:****(5x5=25 Marks)**

1. Pancreas and its function
2. Structure of skin
3. Mechanism of hearing
4. Cerebrum and its functions
5. Lymph and its functions
6. Testis

**IX. Write Essays on any two:****(15x2=30 Marks)**

1. (a) Define tissue (2 Marks)
- (b) Types of tissue (3 Marks)
- (c) Explain types of epithelial tissue and their functions with the help of diagram (10 Marks)
2. Briefly describe constituents of blood and its functions (15 Marks)
3. (a) Define cardiac output (2 Marks)
- (b) Explain conducting system of heart (5 Marks)
- (c) Describe pulmonary and systemic circulation with the help of diagram (8 Marks)

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