

# **PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)**

**BSc DEGREE EXAMINATION MAY 2022**  
**(Third Semester)**

#### **Branch – NUTRITION, FOOD SERVICE MANAGEMENT AND DIETETICS**

## **HUMAN PHYSIOLOGY**

Time: Three Hours

**Maximum: 75 Marks**

### **SECTION-A (10 Marks)**

## **Answer ALL questions**

**ALL** questions carry **EQUAL** marks (10 x 1 = 10)

1. Name the tissues makes an excellent protective cover for skin.
    - Epithelial
    - Nerves
    - Muscle
    - connective
  2. What is the antigen present in persons with 'A' blood group ?
    - B
    - A
    - O
    - A & B
  3. Indicate the relaxation process of the auricles and ventricles.
    - Systole
    - Diastole
    - Auricular systole
    - Ventricular systole
  4. The process in which increase in depth of respiration.
    - Hyperpnea
    - Tachypnea
    - Polypnea
    - Trachea
  5. What is the middle portion of small intestine?
    - Jejunum
    - Peritoneal coat
    - Ileum
    - Villi
  6. Name the part in which each kidney receives arterial blood.
    - Renal artery
    - Renal vein
    - Vein
    - Efferent cells
  7. Name the part of eye in which light enters.?
    - Cornea
    - Macula
    - Sclera
    - Iris
  8. Mention the organ which controls intelligence and speech.
    - Cerebrum
    - Cerebellum
    - Medulla
    - Pons
  9. In which process attachment of the fertilized egg on the endometrium of uterus will happen.
    - Implantation
    - Fertilization
    - Ovulation
    - Spermiation
  10. The process of development of spermatozoa from germinal cells.
    - Epididymis
    - Oogenesis
    - Spermatogenesis
    - Sperm

**Cont...**

**SECTION - B (35 Marks)**

Answer ALL Questions

ALL Questions Carry EQUAL Marks ( $5 \times 7 = 35$ )

- 11 a Explain the functions of blood.  
OR  
b Discuss the formation of RBC.
- 12 a Outline the structure of blood vessels.  
OR  
b Elaborate ECG.
- 13 a State the functions of gastric juices.  
OR  
b Describe the structure of nephron.
- 14 a Summarize the structure of neuron.  
OR  
b Give a brief account on physiology of hearing.
- 15 a Write short notes on the development of menstrual cycle.  
OR  
b Summarize the functions of thyroid gland.

**SECTION - C (30 Marks)**

Answer any THREE Questions

ALL Questions Carry EQUAL Marks ( $3 \times 10 = 30$ )

- 16 Discuss composition of blood.
- 17 Explain cardiac cycle.
- 18 Summarize the mechanism of formation of urine.
- 19 Write in detail about the structure and functions of brain.
- 20 Elaborate pituitary gland.

Z-Z-Z

END