

**SSR DEGREE COLLEGE (AUTONOMOUS)**  
**B.Sc. Medical Laboratory Technology – I Year**  
**Semester – II**  
**Subject: Human Physiology – Part II**  
**Internal- II Question Bank**

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**SECTION – A: Multiple Choice Questions**

1. The basic unit of the nervous system is  
a) Nephron b) Dendrite c) Axon d) Neuron → **Ans: d**
2. The insulating layer around nerve fibers is  
a) Myelin sheath b) Sarcolemma c) Endoneurium d) Perineurium  
→ **Ans: a**
3. Transmission of nerve impulse across synapse occurs by  
a) Hormones b) Neurotransmitters c) Enzymes d) Vitamins → **Ans: b**
4. The gap between two neurons is called  
a) Axon b) Synapse c) Node d) Myelin → **Ans: b**
5. Speed of impulse conduction is fastest in  
a) non-myelinated fibers b) Dendrites c) Myelinated fibers  
d) Cell body → **Ans: c**
6. Neurotransmitter responsible for muscle stimulation is  
a) Acetylcholine b) Serotonin c) Dopamine d) GABA → **Ans: a**
7. Sympathetic nervous system is responsible for  
a) Rest and digestion b) Fight or flight c) Sleep d) Growth → **Ans: b**
8. Parasympathetic system mainly causes  
a) Increased heart rate b) Decreased digestion c) Relaxation and digestion  
d) Stress response → **Ans: c**
9. The part of eye responsible for focusing light is  
a) Retina b) Cornea c) Lens d) Iris → **Ans: c**
10. Photoreceptors in retina are  
a) Rods and cones b) Neurons c) Glial cells d) Axons → **Ans: a**
11. Vitamin A deficiency affects  
a) Hearing b) Taste c) Smell d) Vision → **Ans: d**
12. Hearing is mainly carried to brain by  
a) Optic nerve b) Auditory nerve c) Vagus nerve d) Facial nerve → **Ans: b**
13. Hormones are secreted by  
a) Exocrine glands b) Sweat glands c) Endocrine glands  
d) Salivary glands → **Ans: c**
14. Master gland of endocrine system is  
a) Pituitary b) Thyroid c) Adrenal d) Pancreas → **Ans: a**

15. Insulin is secreted by  
 a) Liver b) Thyroid c) Kidney d) Pancreas → **Ans: d**
16. Hormone regulating metabolism is  
 a) Insulin b) Thyroxine c) Adrenaline d) Estrogen → **Ans: b**
17. Fight or flight hormone is  
 a) Insulin b) Thyroxine c) Adrenaline d) Oxytocin → **Ans: c**
18. Hormones act through  
 a) Blood circulation b) Nerve impulses c) Synapses d) Lymph → **Ans: a**
19. Hormone receptors are located in  
 a) Blood b) Skin c) Nucleus only d) Target cells → **Ans: d**
20. Chemical messenger of the body is  
 a) Enzyme b) Hormone c) Protein d) Vitamin → **Ans: b**

### **SECTION – B: Fill in the Blanks**

1. The structural unit of nervous system is **neuron**.
2. The gap between neurons is called **synapse**.
3. Chemical messengers of neurons are **neurotransmitters**.
4. Insulating layer of nerve fibre is **myelin sheath**.
5. Fight or flight response is controlled by **sympathetic nervous system**.
6. Rest and digest function is controlled by **parasympathetic nervous system**.
7. Image formation occurs on **retina**.
8. Light enters eye through **cornea**.
9. Hearing organ is **ear**.
10. Sound vibrations are received by **cochlea**.
11. Hormones are secreted by **endocrine glands**.
12. Master gland is **pituitary gland**.
13. Insulin regulates **blood glucose level**.
14. Thyroxine controls **metabolism**.
15. Adrenaline is secreted by **adrenal gland**.
16. Hormones act on **target organs**.
17. Deficiency of insulin causes **diabetes mellitus**.
18. Hormones travel through **blood**.
19. Photoreceptors are **rods and cones**.
20. Transmission at synapse is **chemical**.

### **SECTION-C Descriptive Questions**

1. Describe the propagation of nerve impulse and its pathway.
2. Explain neurotransmitters and their functions.
3. Describe synapse types and synaptic transmission.

4. Describe the pathway of light through the eye and mechanism of light refraction.
5. Explain the mechanism of hearing.