

3 Hours

Total Marks: 75

Q. 1 Attempt all multiple-choice questions (MCQ)

20M

S.No	QUESTIONS		OPTIONS
1	The site where most of the ATP is generated in a cell is the _____	a	Nucleus
		b	Mitochondria
		c	Golgi apparatus
		d	Endoplasmic reticulum
2	Nervous tissue is not found In.....	a	Brain
		b	Tendons
		c	Nerves
		d	Spinal Cord
3	Cytoplasm of a muscle fibre is called as .....	a	Sarcolemma
		b	Sarcomere
		c	Sarcoplasmic reticulum
		d	Sarcoplasm
4	..... is the smallest bone of the body	a	Incus
		b	Femur
		c	Stapes
		d	Radius
5	Fibroblasts are present in .....tissue	a	Epithelial
		b	Nervous
		c	Connective
		d	Muscular
6	Autonomic nervous system affects _____	a	Reflex actions
		b	Sensory organs
		c	Visceral organs
		d	Blood haemostasis

7	The thymus secretes _____	a	Antibodies
		b	Hormones that mature the red blood cells
		c	Lymph and is the main lymph factory
		d	Thymosin, a hormone thought to aid in the maturation of T lymphocytes
8	_____ is an example of liquid connective tissue	a	Adipose tissue
		b	Elastic connective tissue
		c	Bone
		d	Blood
9	The fluid that passes through the lymphatic vessels _____	a	Moves in a single direction toward the heart
		b	Passes from the lymphatic vessels into the arteries
		c	Enters the left ventricle of the heart through the right thoracic duct
		d	Flows toward the lungs
10	There are _____ pairs of cranial nerves.	a	14
		b	12
		c	18
		d	31
11	For blood coagulation ----- plasma protein is important.	a	Globulin
		b	Fibrinogen
		c	Serum amylase
		d	Albumin
12	_____ cells is found in peripheral nervous system.	a	Schwann cells
		b	Microglia
		c	Astrocytes
		d	Oligodendrocytes
13	Cornea is.....	a	Anterior portion of choroid
		b	Anterior portion of sclera
		c	Posterior portion of sclera
		d	Anterior portion of retina

14	_____ is the flight or fight response regulated by sympathetic nervous system.	a	Digesting food
		b	Mobilizing fat reserves
		c	Excreting waste
		d	Inducing sleep
15	This is the reason why the SA node acts as heart's pacemaker.	a	Because it has a poor cholinergic innervations
		b	Because it has a rich sympathetic innervations
		c	Because of its capability of generating impulses
		d	Because it generates impulses at the highest rate
16	..... organ contains the 'Bundle of His'	a	Pancreas
		b	Brain
		c	Kidney
		d	Heart
17	P wave indicates.....	a	Depolarization of right ventricle
		b	Depolarization of left ventricle
		c	Depolarization of both atria
		d	Atria to ventricular conduction time
18	Human heart is covered by a double membrane sac called _____.	a	Plura
		b	Kura
		c	Epicardium
		d	Pericardium
19	.....is the largest artery in the body.	a	Aorta
		b	Pulmonary Artery
		c	Coronary arteries
		d	Pulmonary veins
20	The mechanism of coagulation involves following sequence of steps _____	a	Adhesion, aggregation & activation
		b	Activation, aggregation & adhesion
		c	Aggregation. activation & adhesion
		d	Activation, adhesion & aggregation

**Q 2. Attempt ANY TWO of the followings 20 M**

- I. a.** Draw a neat labelled diagram of spleen. Discuss the functions of spleen. **5M**  
**b.** Classify peripheral nervous system. Give the effect of sympathetic and parasympathetic nervous system on eye, heart, and GIT. **5M**
- II. a.** Draw a neat and labelled diagram of showing structure of skin. Discuss functions of skin. **5M**  
**b.** Write about appendicular bones of the limbs. Add a note on cranial bones. **5M**
- III. a.** Explain Structure of Cardiac Muscle. **5M**  
**b.** Explain the conduction system of the heart. **5M**

**Q 3. Attempt ANY SEVEN of the followings 35M**

- I.** Define tissue. Give location and functions of different epithelial tissues. **5M**  
**II.** Define and classify joints. **5M**  
**III.** Explain the structure of the tongue. Add a note on the physiology of taste **5M**  
**IV.** Define Haemostasis. Explain the mechanism of coagulation. **5M**  
**V.** Describe the physiology of skeletal muscle contraction. **5M**  
**VI.** Explain the physiology of hearing. **5M**  
**VII.** Explain the external anatomy of the heart. **5M**  
**VIII.** With the help of flow chart explain the process of formation and circulation of lymph **5M**  
**IX.** Write a note on the ABO & Rh system of blood grouping. **5M**
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