

Time:3 Hours

Marks:75

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

20M

Sr No	QUESTIONS		OPTIONS
1	..... is the basic, structural and functional unit of the body.	a	Blood
		b	Cell
		c	Tissue
		d	Bone
2	Adipose tissue is the type of.....	a	Epithelial tissue
		b	Connective tissue
		c	Muscular tissue
		d	Nervous tissue
3	The number of bones in the human body of an adult is approximately.....	a	201
		b	128
		c	206
		d	236
4	.....muscles are responsible for voluntary movement of the body	a	Cardiac
		b	Skeletal
		c	Smooth
		d	Epithelial
5	In Osmosis, movement of _____ occurs through the semi-permeable membrane	a	Solvent
		b	Solute
		c	Glucose
		d	A and B

6	Lymphatic tissue is a specialized form of -----that contains large numbers of lymphocytes.	a	Reticular connective tissue
		b	Loose connective tissue
		c	Dense connective tissue
		d	Areolar connective Tissue
7	.....activity is associated with the parasympathetic system.	a	Digestion
		b	Emergency
		c	Exercise
		d	Sleeping
8	.....is the largest lymph organ.	a	Kidney
		b	Spleen
		c	Small Intestine
		d	Thymus
9	Person with Blood group .....have Red blood cells that do not contain either A or B antigens on their surface	a	A
		b	O
		c	B
		d	AB
10	_____ is known as the “brain of the gut”.	a	Somatic Nervous system
		b	Enteric Nervous system
		c	Sympathetic Nervous system
		d	Parasympathetic Nervous system
11	Neurotransmitter released by presynaptic nerve fibre in the sympathetic nervous system is_____.	a	Nor-Adrenaline
		b	Acetyl choline
		c	Epinephrine
		d	GABA

12	A clear fluid composed mainly of water, electrolytes, and some small plasma proteins is called _____	a	Plasma
		b	Serum
		c	Lymph
		d	Interstitial fluid
13	Heme portion of the haemoglobin is synthesized in _____.	a	Ribosomes
		b	Mitochondria
		c	Smooth endoplasmic reticulum
		d	Nucleus
14	_____ plexus of enteric nervous system are responsible for increasing tone of gut.	a	Submucosal plexus
		b	Myentric plexus
		c	Cervical plexus
		d	Lumbar plexus
15	Cardiac output is not affected by.....	a	Heart rate
		b	Peripheral resistance
		c	Systolic blood pressure
		d	Venous return
16	The substance most likely to cause a rapid drop in blood pressure is....	a	Histamine
		b	Serotonin
		c	Angiotensin II.
		d	Norepinephrine
17	The human heart is made up of.....	a	Tendon
		b	Muscle
		c	Skin
		d	Bone
18	.....has minimum blood Pressure.	a	Aorta
		b	Arteries
		c	Capillaries
		d	Venules

19	The Peripheral resistance is maximum in....	a	Aorta
		b	Arteriole
		c	Artery
		d	Vein
20	..... is a balancing organ in humans.	a	Eardrum
		b	Vestibular region of ear
		c	Organ of corti in ear
		d	Nose

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

- I. a.** Discuss in detail composition and functions of blood. **5M**
- b.** Describe in detail parasymphathetic division of ANS with respect to actions on effector organs. **5M**
- II. a.** Explain the conduction system of heart. **5M**
- b.** Write a note on ECG of normal heart **5M**
- III. a.** Explain the structure of Lymph node **5M**
- b.** Give the composition of lymph. Explain the flow of lymph. **5M**

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

- I.** Explain the Passive transport of substances across the plasma membrane. **5M**
- II.** Explain the structure of skeletal muscles. **5M**
- III.** Discuss function of lymphatic system. Add a note on anatomy and functions of Thymus. **5M**
- IV.** Discuss in detail the life cycle of RBC. **5M**
- V.** Write a note on fight or flight response giving examples. **5M**
- VI.** Explain Cardiovascular System Schematically (Flow chart). **5M**
- VII.** Explain the anatomy of the tongue with its various types of papillae **5M**
- VIII.** Classify joints. Add a note on synovial joint. **5M**
- XI.** Describe the phases of Cardiac Cycle. **5M**