S.S.R. DEGREE COLLEGE, (AUTONOMOUS) NIZAMABAD (C.C:5029)

I SEMESTER INTERNAL ASSESSMENT-II EXAMINATIONS BSC MLT HUMAN PHYSIOLOGY – Part I Question Bank

Multiple Choice Questions:

manufic character questions.	
1. The primary muscle involved in respiration is:	(a)
a) Diaphragm b) Intercostal muscles c) Abdominal muscles d) Pectoral	muscles
2. The process of gas exchange between alveoli and blood is called:	(b)
a) Internal respiration b) External respiration c) Cellular respiration d) Di	ffusion
3. Which part of the brain controls respiration?	(c)
a) Cerebrum b) Cerebellum c) Medulla oblongata d) Thalamus	
4. Spirometer is used to measure:	(d)
a) Blood pressure b) Heart rate c) Blood glucose d) Lung volumes	
5. Tidal volume refers to:	(a)
a) Air inspired or expired in normal breathing b) Air remaining after forced expired in a second content of the second content of th	xpiration
c) Maximum volume inspired d) Residual air	•
6. Vital capacity is the sum of:	(b)
a) IRV + RV b) TV + IRV + ERV c) ERV + RV d) TV + RV	, ,
7. Residual volume refers to:	(c)
a) Air exhaled during normal breathing b) Air taken during forced inspiration	
c) Air left in lungs after full expiration d) None	
8. The gas primarily responsible for stimulating respiration is:	(d)
a) O2 b) N2 c) H2 d) CO2	
9. The respiratory center is located in:	(a)
a) Pons and Medulla b) Midbrain c) Hypothalamus d) Cerebrum	, ,
10. Normal respiratory rate in adults is:	(b)
a) 6-8/min b) 12-20/min c) 25-30/min d) 40/min	
11. The pacemaker of the heart is:	(c)
a) AV node b) Bundle of His c) SA node d) Purkinje fibers	
12. Cardiac output is defined as:	(d)
a) Blood pressure × Heart rate b) Stroke volume × Respiratory rate c) Nor	ne
d) Heart rate × Stroke volume	
13. Normal heart sounds are due to:	(a)
a) Closure of valves b) Opening of valves c) Muscle contraction d) Relati	xation
14. ECG represents:	(b)
a) Mechanical activity b) Electrical activity c) Heart sounds d) Cardiac or	utput
15. P wave in ECG represents:	(c)
a) Ventricular depolarization b) Ventricular repolarization c) Atrial depolari	
d) Atrial repolarization	

16. QRS complex represents:	(d)
a) Atrial depolarization b) Ventricular repolarization c) None d) Ventricu	lar
depolarization	
17. The 'lub' sound of the heart is caused by:	(a)
a) Closure of AV valves b) Closure of semilunar valves c) Opening of val	ves
d) Blood flow	
18. Blood pressure is measured by:	(b)
a) Thermometer b) Sphygmomanometer c) Spirometer d) ECG machin	е
19. Normal blood pressure in adults is:	(c)
a) 80/40 mmHg b) 140/90 mmHg c) 120/80 mmHg d) 160/100 mmHg	
20. Pulse rate in a healthy adult is about:	(d)
a) 40 bpm b) 120 bpm c) 30 bpm d) 60–100 bpm	
21. Jugular pulse reflects:	(a)
a) Right atrial pressure b) Left atrial pressure c) Aortic pressure d) Ven	tricular
pressure	<i>(</i> 1.)
22. Which hormone increases heart rate?	(b)
a) Insulin b) Adrenaline c) Thyroxine d) Estrogen	(-)
23. Stroke volume means:	(c)
a) Blood per minute b) Blood per hour c) Amount of blood pumped per be	eat
d) None	(4)
24. Systole refers to:	(d)
a) Relaxation phase b) Valve opening c) None d) Contraction phase	(0)
25. Bradycardia means:a) Slow heart rateb) Fast heart ratec) Normal rhythmd) Irregular pulse	(a)
a) Glow Healt rate b) i ast healt rate c) Normal mythin d) megulai puist	•

Fill in the Blanks:

- 1. The muscle responsible for respiration is the **diaphragm**
- 2. Gas exchange between alveoli and blood is called external respiration
- 3. The control center for respiration is located in the **medulla oblongata**
- **4.** The volume of air breathed in and out during normal respiration is called **tidal volume**
- 5. The device used to measure lung volumes is called a **spirometer**
- **6.** Vital capacity is the sum of tidal volume, inspiratory reserve volume and **expiratory reserve volume**
- 7. The gas that mainly regulates breathing is **carbon dioxide**
- 8. Residual volume means air left in lungs after forceful expiration
- **9.** The pacemaker of the heart is the **SA node**
- **10.** The cardiac cycle includes systole and <u>diastole</u>
- 11. Heart sounds are produced due to the closure of valves
- 12. The first heart sound 'lub' is due to closure of AV valves
- 13. ECG stands for Electrocardiogram
- **14.** P wave of ECG represents <u>atrial depolarization</u>
- 15. QRS complex represents ventricular depolarization
- 16. Normal blood pressure in adults is 120/80 mmHg

- 17. The instrument used to measure blood pressure is **sphygmomanometer**
- **18.** The hormone that increases heart rate is **adrenaline**
- **19.** The normal pulse rate in adults is **60–100 beats per minute**
- **20.** The functional unit of respiration is the <u>alveolus</u>
- **21.** During systole, the heart undergoes **contraction**
- 22. Blood returning to the heart through veins shows a jugular pulse
- 23. Cardiac output is the product of heart rate and stroke volume
- 24. The relaxation phase of the heart is called diastole
- 25. The ECG is used to study the electrical activity of the heart

Descriptive Questions:

- **1.** Define respiration and its types.
- 2. What is the difference between external and internal respiration?
- **3.** Define tidal volume, vital capacity, and residual volume.
- 4. What are the components of the circulatory system?
- **5.** What is systole and diastole?