

PHYSIOLOGY – Paper I

Time: 3 Hours

Total Marks: 50

- *Answer all questions*
- *Draw Diagrams wherever necessary*

Long essay

(10)

1. A road traffic accident victim was found to be unconscious and breathing in an irregular rhythm. From your knowledge of physiology
 - Name two types of periodic breathing
 - Explain the neural regulation of respiration
 - What is the mechanism of function of medullary chemo receptors. (1+5+4=10)

Short essays

(2x5 =10)

2. Name the components of the enteric nervous system and outline its functions
3. Describe the intrinsic pathway of coagulation. Mention one test for assessing it

Answer briefly

(5x3=15)

4. Law of intestines
5. Sick cell anemia
6. Non renal functions of kidney
7. Pathophysiology of peptic ulcer
8. Cystometrogram

Draw and label

(2x2½ =5)

9. Splay
10. Cardiac muscle action potential

Explain the physiological basis of the following

(5x2=10)

11. Korotkoff's sounds
12. Alveoli are dry
13. Skin is cold in hypovolemic shock
14. Q wave in an ECG
15. Steatorrhoea in diseases that destroy exocrine pancreas
