

**QP CODE: 102018**

**Reg.No: .....**

**First Year B.Sc (MRT) Degree Examinations August 2018**

**Physiology**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw Diagrams wherever necessary

**Essays**

**(2x20=40)**

1. Discuss pain as a sensation; explain different types of pain and the pathway for pain sensation. Add a note on referred pain
2. Name the hormones secreted by the pancreas. Explain the functions of insulin. Add a note on diabetes mellitus

**Short notes:**

**(8x5=40)**

3. Draw and label a normal ECG recording and mention the cause of each.
4. Korotkoff sounds
5. Phagocytosis
6. Functions of saliva
7. Color blindness
8. Muscles involved in respiration
9. CO<sub>2</sub> transport in the blood
10. Functions of placenta

**Answer briefly:**

**(10x2=20)**

11. Homeostasis
12. Functions of lymphocytes
13. Ventilation/Perfusion ratio
14. Myxedema
15. Stages of deglutition
16. Functions of testosterone
17. Oral contraceptive pill
18. BP changes during exercise
19. Features of hypovolemic shock
20. Functions of cones and rods in the retina

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