

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
B.Sc Summer 2017-18 Examination

Semester: 4
Subject Code: 11103252
Subject Name: Human Anatomy and Physiology

Date: 15/05/2018
Time: 10:30am to 1:00pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1. A) Explain process of RBC destruction in detail with diagram. (08)**
- Q.1. B) Answer the following questions (Any two)**
- (a) Short note: Hemoglobin (04)
 - (b) Describe regulation of fluid balance by kidneys (04)
 - (c) "Heart as a pump" - explain (04)
- Q.2. A) Answer the following questions.**
- (a) Short note: Cardiac cycle (04)
 - (b) Explain mechanism of respiration (04)
- Q.2. B) Answer the following questions (Any two)**
- (a) What is arrhythmia? Explain its effect (03)
 - (b) Give structure and functions of RBCs (03)
 - (c) Short note: ECG (03)
- Q.3. A) Describe Urine formation in detail. (08)**
- Q.3. B) Answer the following questions (Any two)**
- (a) Explain digestion in GI track (04)
 - (b) Short note: Sensory transduction (04)
 - (c) Write a note on classification of Nerve fibers (04)
- Q.4. A) Answer the following questions.**
- (a) Explain functions of pancreas (04)
 - (b) Explain structure of skeleton muscles (04)
- Q.4. B) Answer the following questions (Any two)**
- (a) Short note : Resting membrane potential (03)
 - (b) List out functions of ADH (03)
 - (c) What is Hypoxia? Explain its conditions (03)