

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
M.Sc. Winter 2018-19 Examination

Semester: 1**Subject Code: 11209106****Subject Name: Applied Physiology****Date: 12/12/2018****Time: 10:30 am to 1:00 pm****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) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**
 (a) Role of Liver in Digestion of food
 (b) Sodium Potassium pump
- Q.1. B) Answer the following questions (Any two) (04)**
 (a) Do as directed (2x2) (Each of 02 marks)
 1. Osmosis
 2. Secretions of pancreas
 (b) Short note: Salivary amylase (04)
 (c) Short note: Gastric juice (04)
- Q.2. A) Answer the following questions. (04)**
 (a) Fill in the blanks. (Each of 02 marks)
 1. Study of cell is called.....
 2. Enzyme present in saliva is.....
 (b) Short note: Importance of physiology in nutrition and dietetics (04)
- Q.2. B) Answer the following questions (Any two) (03)**
 (a) Multiple choice questions. (Each of 01 marks)
 1. Secretion of liver is.....(Glucose, Bile, HCl)
 2. Volume of blood in adult is.....(5-6 L, 10-12L, 2-3L)
 3. Anemia is due to the deficiency of..... (Iron, Cu, Mg)
 (b) Short note: Peptic Ulcer (03)
 (c) Short note: Blood plasma (03)
- Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**
 (a) Gastric emptying
 (b) Functions of Stomach
- Q.3. B) Answer the following questions (Any two) (04)**
 (a) Brief note (2x2)(2x2) (Each of 02 marks)
 1. Functions of WBC
 2. Digestion of Carbohydrate
 (b) Short note: Diabetes mellitus (04)
 (c) Short note: Colostomy (04)
- Q.4. A) Answer the following questions. (04)**
 (a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks)
 1. Muscles involved in Mastication
 2. Vomiting
 (b) Short note: Jaundice (04)
- Q.4. B) Answer the following questions (Any two) (03)**
 (a) Multiple choice questions. (Each of 01 marks)
 1. Inflammation of appendix is called..... (Peritonitis, Gastritis, Appendicitis)
 2. Digestive disorder caused by gastric acid reflux is.....(Gastritis, GERD, Jaundice)
 3. PH of HCl in Gastric juice is.....(1.2, 2.5, 7)
 (b) Short note: Properties of Pancreatic juice (03)
 (c) Short note: Regulation of gastric juice secretions (03)