

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – I (OLD Syllabus) • EXAMINATION – SUMMER • 2015

Subject Code: 210001

Date: 01-06-2015

Subject Name: Anatomy Physiology and Health Education - I

Time: 02:30 pm - 05:30 pm

Total Marks: 80

Instructions:

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1**
- | | | |
|-----|--|-----------|
| (a) | Explain mechanism of blood coagulation. | 06 |
| (b) | Write a note on human blood groups. | 05 |
| (c) | Match the following information in set-A with the most relevant information in set –B. | 05 |
- | | | | |
|-----|--------------|---|--------------------------------|
| | Set –A | | Set –B |
| I | Arthritis | A | Inflammatory process of liver |
| II | leucocytosis | B | Loss of appetite |
| III | Leucopenia | C | Inflammatory disorder of joint |
| IV | Hepatitis | D | Increase in numbers of WBC |
| V | Anorexia | E | Decrease in numbers of WBC |
- Q.2**
- | | | |
|-----|--|-----------|
| (a) | Enumerate various processes that transport substances across the plasma membrane. Describe in detail active transport process. | 06 |
| (b) | Write a note on mitochondria. | 05 |
| (c) | Define cell. Explain the basic structure of cell with schematic diagram. | 05 |
- Q.3**
- | | | |
|-----|---|-----------|
| (a) | Write a note on various types of joints. | 06 |
| (b) | Classify elementary tissues. Write a note on epithelial tissue. | 05 |
| (c) | Match the following organ system in set-A with their most relevant organs/tissue in set –B. | 05 |
- | | | | |
|-----|--------------|---|------------------|
| | Set –A | | Set –B |
| I | Lymphatic | A | Thoracic cage |
| II | Digestive | B | Blood |
| III | Muscular | C | Spleen |
| IV | Osseous | D | Esophagus |
| V | Haemopoietic | E | Skeletal muscles |
- Q.4**
- | | | |
|-----|---|-----------|
| (a) | Explain the physiology of muscle contraction with diagram. | 06 |
| (b) | Discuss in brief about role of histamine in allergy and inflammation. | 05 |
| (c) | Write a note on composition and function of lymph. | 05 |
- Q.5**
- | | | |
|-----|---|-----------|
| (a) | Write a note structure and functions of various organs of digestive system. | 06 |
| (b) | Write composition and functions of gastric juice. | 05 |
| (c) | Explain the structure and functions of the liver. | 05 |

Q. 6	(a)	Explain the term immunity. Write a note on acquired immunity.	06
	(b)	Write a note on eicosanoids.	05
	(c)	Describe briefly various phases of gastric secretion.	05
Q.7	(a)	Write a note on anaemia.	06
	(b)	Write a note on bones of the human skull.	05
	(c)	Differentiate various types of muscles.	05
