

[LB 0212]

AUGUST 2012

Sub. Code: 2201

B.Sc. MEDICAL SOCIOLOGY

FIRST YEAR

PAPER – I ANATOMY AND PHYSIOLOGY

Q.P. Code : 802201

Time : Three hours

Maximum : 100 marks

(180 Mins) Answer ALL questions in the same order.

I. Elaborate on:

Pages Time Marks
(Max.) (Max.) (Max.)

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|---|---|----|----|
| 1. Describe the mechanism of carbon dioxide and oxygen transport from the lungs to the tissues. | 7 | 20 | 10 |
| 2. Describe the position and structure of heart. | 7 | 20 | 10 |
| 3. Describe the structure of small intestine. | 7 | 20 | 10 |

II. Write notes on:

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|---|---|----|---|
| 1. What is meant by the terms diffusion and osmosis. Mention one example for the above processes in the body. | 4 | 10 | 5 |
| 2. Skeletal muscle. | 4 | 10 | 5 |
| 3. List the various structures of the eye and mention their functions. | 4 | 10 | 5 |
| 4. Structure of a tooth. | 4 | 10 | 5 |
| 5. List the functions of the liver. | 4 | 10 | 5 |
| 6. Describe the structure of an RBC. Where is it produced in the body. What are its functions. | 4 | 10 | 5 |
| 7. What are the basic tastes. Describe the physiology of the taste sensation. | 4 | 10 | 5 |
| 8. Mitochondria. | 4 | 10 | 5 |

III. Short Answers on:

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|---|---|---|---|
| 1. List four functions of proteins present on the cell membrane. | 2 | 4 | 3 |
| 2. Name the structures present in the hilum of a lung. | 2 | 4 | 3 |
| 3. List the constituents of plasma. | 2 | 4 | 3 |
| 4. Mention the structure and function of microfilaments. | 2 | 4 | 3 |
| 5. What is the function of the utricle, saccule and the semicircular canals of the ear? | 2 | 4 | 3 |
| 6. List the muscles of inspiration and expiration. | 2 | 4 | 3 |
| 7. Mention the parts of cerebellum. | 2 | 4 | 3 |
| 8. What is night blindness? Mention one cause. | 2 | 4 | 3 |
| 9. Mention the structure of a synapse. | 2 | 4 | 3 |
| 10. What is the nerve supply of parietal pleura? | 2 | 4 | 3 |
