

GUJARAT TECHNOLOGICAL UNIVERSITY

BPHARM – SEMESTER II (OLD Syllabus) • EXAMINATION – SUMMER • 2015

Subject code: 220004

Date: 06-06-2015

Subject Name: Anatomy Physiology and Health Education - II

Time: 10:30 am - 01:30 pm

Total Marks: 80

Instructions:

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

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|-------------|---|-----------|
| Q.1 | (a) Draw a labeled diagram of ear and explain physiology of vision. | 06 |
| | (b) Write functions of skin in detail with a labeled diagram. | 05 |
| | (c) Explain following terms (i) Glaucoma (ii) Goiter (iii) Meningitis (iv) Calculi (v) Blood volume | 05 |
| Q.2 | (a) Write in detail about structural and function unit of kidney. | 06 |
| | (b) Discuss in detail about Male Reproductive System with a labeled diagram. | 05 |
| | (c) Explain properties of cardiac muscles. | 05 |
| Q.3 | (a) Describe the biosynthesis, storage and release of T ₃ and T ₄ from thyroid gland. | 06 |
| | (b) Draw a labeled diagram of human brain and write note on cerebral cortex. | 05 |
| | (c) Draw neat and clean diagram of internal structure of heart. | 05 |
| Q.4 | (a) Explain reflex action with neat and clean labelled diagram of reflex arch. | 06 |
| | (b) Write a short note on cardiac output. | 05 |
| | (c) Write a short note on cerebral spinal fluid (CSF). | 05 |
| Q.5 | (a) Discuss physiology of menstruation cycle. Write a note on Oogenesis. | 06 |
| | (b) Discuss in detail about physiology of Ageing process. | 05 |
| | (c) Classify hormones and write a note on hormone obtained from β -cells of islets of Langerhans. | 05 |
| Q. 6 | (a) Draw a labeled diagram of lungs and write a note on respiratory volumes. | 06 |
| | (b) Give difference between parasympathetic and sympathetic nervous system. | 05 |
| | (c) Write a short note on cranial nerves. | 05 |
| Q.7 | (a) Explain physiology of urine formation. | 06 |
| | (b) Write a short note on (i) Renin angiotensin system (ii) ECG | 05 |
| | (c) Explain following terms (i) Bronchial Asthma (ii) Addison's disease (iii) Diabetes Mellitus (iv) Limbic system (v) CCF. | 05 |
