B. PHARM.

(SEM. II) EXAMINATION, 2006-07

HUMAN ANATOMY, PHYSIOLOGY & HEALTH EDUCATION - II

Time : 3 Hours] [Total Marks : 80

Note :  
1. Answer all the questions.
2. All questions carry equal marks.

1. Answer any four of the following : 4x4
   (a) Relate the structures of the nasal cavities to their function in respiration.
   (b) Discuss briefly the physiological variables affecting respiration.
   (c) Write a note on vital capacity.
   (d) Briefly discuss on lung volumes.
   (e) Explain the functions of the trachea in respiration.

2. Write on any four of the following : 4x4
   (a) Briefly discuss the structure and functions of the ‘VERTEBRAL COLUMN’.
   (b) Discuss the functions of the ‘CSF’.
   (c) Briefly discuss the common neuro-transmitters in the Peripheral Nervous System.
   (d) Effects of sympathetic and para-sympathetic stimulation on digestive system, urinary system and the skin.

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(e) Enumerate the different Cranial Nerves and briefly describe the functions of the ‘TRIGEMINAL NERVE’.

3 Answer any **four** of the following:

(a) Briefly discuss the role of kidneys in maintaining the Blood Pressure.
(b) Discuss the process of ‘SELECTIVE REABSORPTION’ in formation of urine.
(c) Discuss the process of ovulation and the hormones that control it.
(d) List some of the changes that occur at puberty in males.
(e) Acute Renal Failure.

4 Answer any **four** of the following:

(a) Write briefly about the ‘AUDITORY OSSICLES’ and their role in hearing.
(b) Briefly discuss the functions of the retina.
(c) Briefly outline the actions of the THYROID HORMONES.
(d) Physiology of TASTE.
(e) Briefly explain how the adrenal glands respond to STRESS.

5 Attempt any **two** of the following:

(a) Discuss the causative agent, mode of transmission and prevention of POLIO, MEASLES, TETANUS and HIV/AIDS infections.
(b) Briefly discuss about the mechanism of ‘ACQUIRED IMMUNITY’ and enumerate some of the vaccine – preventable diseases.
(c) Briefly outline the sources and functions of the fat–soluble vitamins. Write a note on ‘XEROPHTHALMIA’.