



Printed Pages : 2

PH – 123

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 5050**

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## 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 : **4×4**

- (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 : **4×4**

- (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 : **4×4**

- (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 : **4×4**

- (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 : **2×8**

- (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'.