

**Ref. No.: EX/PHARM/T/216/2017(S)**

**B. Pharm. 2<sup>nd</sup> Year 1<sup>st</sup> Semester Supplementary Examinations 2017**

**Time: 3 hours**

**Subject: Human Anatomy and Physiology-II**

**Full Marks: 100**

(Answer any *five* questions)

**GROUP - A**

1. What are the functions of respiration? With proper diagram illustrate the external and internal respiration. Mention the different muscle associated with respiration.
2. Write briefly about the different disorder of the upper respiratory tract and bronchi.
3. Write notes on (any two)-
  - a. Pancreas.
  - b. Hernia.
  - c. Lungs volume.
  - d. Bile

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**GROUP - B**

4) Write a short note on:

(a) Generation of Nerve Action Potential with the help of a diagram.

(b) Nerve Growth Factors with few examples.

(c) Write a short note on composition and function of CSF.

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5) Write short note on:

(i) Brain Ventricles (ii) Four Heart Sounds, (iii) Name chronologically the 12 Pairs of cranial nerves, and (iv) Cerebral Cortex.

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6) What are the basic characters for a Neurohumoral transmitter? With the help of a schematic diagram mention the basic neurotransmitters involved in Voluntary and In-voluntary nerve supply. Draw and label the typical TS of spinal cord.

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