



Printed Pages : 3

PHAR – 245

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

**PAPER ID : 5108**

Roll No.

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### B. PHARM.

(SEM. IV) EXAMINATION, 2006-07

### ANATOMY, PHYSIOLOGY & PATHOPHYSIOLOGY - IV

*Time : 3 Hours]*

*[Total Marks : 80*

- Note :**
- (1) Attempt **all** questions.
  - (2) All questions carry **equal** marks.
  - (3) Be precise in your answer.

**1** Attempt any **two** parts of the following : **8×2=16**

- (a) What is tuberculosis? What are its symptoms?  
Discuss its pathogenesis;
- (b) Discuss the pathogenesis of the following diseases : (any **two**)
  - (i) Emphysema
  - (ii) Pneumonia
  - (iii) Asthma.
- (c) Write short notes on : (any **two**)
  - (i) Structure and functions of pharynx
  - (ii) Physiology of voice production
  - (iii) Mechanism of respiration.

- 2** Discuss the pathogenesis of the following diseases : (any **four**) **4×4=16**
- (i) CHF
  - (ii) Myocardial Infarction
  - (iii) Atherosclerosis
  - (iv) Angina pectoris
  - (v) Sickle cell anaemia.
- 3** Attempt any **four** parts of the following : **4×4=16**
- (a) What is mitochondrial permeability transition? How does it lead to irreversible injury?
  - (b) What are free radicals? How do they cause cell injury?
  - (c) What is necrosis? Explain the term “coagulative necrosis.”
  - (d) Define the terms with suitable examples : (any **two**)
    - (i) Aplasia
    - (ii) Metaplasia
    - (iii) Dysplasia.
  - (e) Explain the process of “fibrosis.”
- 4** Attempt any **two** parts of the following : **8×2=16**
- (a) What is ischemia? How does it lead to reversible and irreversible injury?
  - (b) Discuss the role of leukocytes in inflammation.
  - (c) What is hypertension? Discuss the pathogenesis of essential and secondary hypertension.

**5** Attempt any **two** parts of the following : **8×2=16**

- (a) What is gout? What are its symptoms? Discuss its pathogenesis.
- (b) What is Alzheimer's disease? What are its symptoms? Discuss its pathogenesis.
- (c) Write short notes on : (any **two**)
  - (i) Myasthenia gravis
  - (ii) Psychosis
  - (iii) Spasticity.

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