



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.
