



Z-4664 Seat No. _____
Second Year M.B.B.S. Examination
February – 2006
Pathology (Theory)

Time : 3 Hours]

[Total Marks : 80

- Instructions :**
- (1) Figures to the right indicate full marks.
 - (2) Write answers of Paper-I and Paper-II in separate answer books.
 - (3) Draw neat and labelled diagrams and write to the point.
 - (4) Irrelevant writing is discouraged.

PAPER - I

- 1** Write notes on : (any **four**) **20**
- (a) Biochemical themes / molecular mechanisms for cell injury and cell-death.
 - (b) Free radical cell-injury / super oxide.
 - (c) Transplant rejection-morphology and mechanisms.
 - (d) Chemical carcinogenesis-Discuss in detail.
 - (e) Physical and chemical nature of amyloid and classification of amyloidosis in detail.
- 2** (a) Answer in brief (objective) : (any **three**) **6**
- (a) Deficiency states / targets of Thiamine deficiency.
 - (b) Four organs with lesions involved in chronic alcoholism.
 - (c) Two examples EACH of Auto-immune diseases in single organ / cell type and systemic.
 - (d) Four examples of Prolonged Prothrombin time.
- (b) Write brief answers : (any **three**) **6**
- (a) Define Leukaemia reaction, classify and mention causes of EACH.
 - (b) Inclusions of nuclear chromatin in red blood cells-Discuss.
 - (c) Reticulocyte-Morphology, staining, Method of count and mention four conditions of Reticulocytosis.
 - (d) Define anaemia. Classify and enumerate basic, routine and specialized investigations for anaemia.

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- 3** Write notes (any **two**) **8**
- (a) Morphology of premature WBC series cells individually and classify Leukemias.
 - (b) Discuss screening tests in evaluation of haemorrhagic disorders and ONLY name some specific tests in detection of specific defects / disorders.
 - (c) Classify Macrocytic anaemia and discuss Lab. diagnosis of Macrocytic anaemias.

PAPER - II

- 4** Write notes on : **12**
- (a) Discuss autopsy findings, external and internal examination and its clinico-pathological correlation in a patient died of AIDS.
 - (b) Define Rheumatic fever, discuss incidence, etiopathogenesis, morphology and clinical course of Rheumatic heart disease.
- 5** Write notes : (any **four**) **16**
- (a) Classify emphysema. Discuss the incidence, pathogenesis and morphology in detail.
 - (b) Classify Hepatitis viruses. Discuss the morphology, clinical details and serologic markers of hepatitis - c - virus infection in detail.
 - (c) Tubulo-interstitial diseases - Enumerate causes, discuss etiopathogenesis and morphology of Acute and Chronic Pyelonephritis.
 - (d) Define Infarct. Discuss the types, morphology, factors affecting development of infarct and clinical course in detail.
 - (e) Discuss regulation of normal blood pressure. Write down the mechanisms of Essential hypertension and vascular pathology in hypertension.
- 6** (a) Write in brief : (any **three**) **6**
- (a) Discuss Anisopoikilocytosis. Give some examples of variables of shapes and sizes.
 - (b) ESR - mention various methods, mechanisms and enumerate causes of increased and decreased ESR.
 - (c) Autoagglutination - causes and methods for evaluation of blood group in such condition.
 - (d) Liver function tests - Indications, various tests and its clinicopathological correlation / significance.

- (b) Write short notes : (any **two**) **6**
- (a) Renal function tests - Indications, various tests, methods and clinicopathological significance.
 - (b) Investigations of a case of mismatched blood transfusion.
 - (c) Thyroid function tests - indications, clinicopathological correlation, utility and its significance.
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