		Batch 29.	
	Reg. No.		
M	IANIPAL UNIVERSIT	ГҮ	
MBBS PHASE I STAG	E II DEGREE EXAMINA	ATION – AUGUST 2013	
SUB	JECT: PATHOLOGY – I (ES	SSAY)	
	Thursday, August 08, 2013		
		Max Marks: 60	

1B. What are the differences between apoptosis and necrosis?

(3+2 = 5 marks)

2. Discuss the role of neutrophil polymorph in acute inflammation.

(5 marks)

3. A 10 year old child presents with pallor and jaundice since 2 years of age. Examination revealed splenomegaly. Basic haematological tests showed evidence of anaemia with reticulocytosis suggestive of a haemolytic anaemia. Compare the aetiopathogenesis and laboratory diagnosis of two conditions which present with such a picture.

(2+3 = 5 marks)

4. Classify and describe chemical carcinogenesis.

(2+3 = 5 marks)

5. Describe the gross morphology and microscopy of ulcerative colitis. Mention four complications of ulcerative colitis.

(2+2+1 = 5 marks)

- 6. A 60 year old chronic alcoholic dies due to end stage liver disease. Autopsy revealed nodularity of the liver.
- 6A. Explain the pathogenesis and morphology of this condition.
- 6B. In a tabular format, write the clinical features of liver failure and their pathophysiological basis.

 $(2\frac{1}{2}+2\frac{1}{2}=5 \text{ marks})$

7. In a tabular format, differentiate the clinicopathological features of osteoarthrosis and rheumatoid arthritis.

(5 marks)

8. Classify primary tumours of CNS. Describe the clinicopathological features of any one of them.

(2+3 = 5 marks) Page 1 of 2 9. Describe the aetiopathogenesis, morphology and complications of infective endocarditis.

(5 marks)

10. A 35 year old male complained of cough with expectoration, loss of weight and night sweats. Sputum examination revealed acid fast bacilli. Chest X-ray showed opacity in the right apex of the lung. Describe the possible morphological changes that can occur in the lung of this patient.

(5 marks)

11. Compare the characteristic clinicopathological features of two malignant thyroid tumours.

(5 marks)

12. Draw a concept map to depict the classification, causes and consequences of renal stones. (2+2+1 = 5 marks)



SUBJECT: PATHOLOGY - II (MCQs)

Thursday, August 08, 2013

Time: 11:30 - 12:30 Hrs.

Max. Marks: 120

Batch 29.

INSTRUCTIONS

1. For each statement, select T (True) or F (False) as your choice.

2. Indicate your choice by darkening the appropriate circle in the answer sheet provided.

3. Use only HB or 2B pencils to darken the circle.

4. Leave blank for Don't Know response.

5. Scoring systems is as follows:

For every **Correct** response For every **Wrong** response For every **Don't Know** response mark is awarded
mark is deducted
No mark is deducted

6. Indicate your roll number (Registration Number) clearly and correctly.

7. Do not write anything in the question paper.

8. The true/false statements are numbered 101 to 160 and 201 to 260 (Total 120 statements).

9. This question paper contains **04 pages**. Please make sure that the question paper provided to you has all the pages.

Granulation tissue contains

- 101. Epithelioid cells
- 102. Loops of capillaries
- 103. Myofibroblasts

Gangrene

- 104. Is a type of apoptosis
- 105. That occurs in the intestine is usually of the dry type
- 106. Caused by Clostridium perfringens is called gas gangrene

Down's syndrome is

- 107. A sex chromosomal abnormality
- 108. Also known as trisomy 21
- 109. Associated with gynaecomastia and atrophic testis
- 110. More likely to occur in children of young mothers

Chronic inflammation is characterised by

- 111. Presence of numerous histiocytes
- 112. Production of protein rich fluid
- 113. Release of bradykinin
- 114. 'Triple response'
- 115. Few neutrophils

Systemic effects of inflammation include

- 116. Weight loss
- 117. Amyloidosis
- 118. Bone marrow suppression
- 119. Iron overload
- 120. Increase in erythrocyte sedimentation rate

Multiple myeloma is characterised by

- 121. Bone pain
- 122. Osteolytic lesions on x-ray
- 123. Monoclonal immunoglobulin peak on protein electrophoresis

Chronic myeloid leukaemia is characterised by

- 124. More than 20% blasts in the marrow
- 125. Philadelphia chromosome
- 126. Massive splenomegaly
- 127. Basophilia

Vitamin B12 deficiency is characterised by

- 128. Impaired RNA synthesis
- 129. Microcytes in the peripheral smear
- 130. Absent Perl's staining of bone marrow

Benign tumours

- 131. Are localised
- 132. Have well circumscribed borders
- 133. Are capable of metastasis

Clinical effects of tumour include

- 134. Anaemia
- 135. Weight gain
- 136. Ulceration
- 137. Cachexia

Tumours that metastasise include

- 138. Seminoma
- 139. Lipoma
- 140. Osteosarcoma

Regarding chronic peptic ulcers

- 141. Breakdown of mucosal defense is much more important than excess acid production in duodenal ulcer
- 142. Perforation is a complication
- 143. Pyloric stenosis results from progressive fibrosis and cicatrisation of the ulcer

Regarding gastric carcinoma

- 144. Diffuse type of adenocarcinoma has a better prognosis than intestinal type
- 145. Helicobacter pylori associated chronic gastritis has an increased risk of cancer
- 146. Early gastric cancer can show metastasis to regional lymph nodes

Regarding oesophageal carcinomas

- 147. Most adenocarcinomas arise from Barrett's oesophagus
- 148. Adenocarcinomas are more common in the upper one third of the oesophagus
- 149. High grade dysplasia progresses to invasive squamous cell carcinoma
- 150. Squamous cel4 carcinomas are associated with very poor prognosis

Regarding Wilson's disease

- 151. It is also called as hepatolenticular degeneration
- 152. Copper usually accumulates in liver
- 153. Serum ceruloplasmin level is increased
- 154. It is treated with penicillamine

Intra-hepatic causes of jaundice include

- 155. Hereditary spherocytosis
- 156. Alcoholic hepatitis
- 157. Cholelithiasis

Clinical features of chronic liver disease include

- 158. Ascites
- 159. Gynaecomastia
- 160. Haemoptysis

Microscopic features of lepromatous leprosy (polar) include

- 201. Granuloma in the dermis
- 202. Grenz zone
- 203. Scarcity of bacilli in the lesion
- 204. Intense T cell lymphocytic response

Systemic lupus erythematosus

- 205. Is characterised by auto-antibodies to DNA and other nuclear components
- 206. Most commonly affects metatarsophalangeal joint of first toe
- 207. Is associated with raised serum uric acid levels

Duchenne muscular dystrophy is

- 208. A disease of skeletal muscle
- 209. Associated with abnormal muscle innervations
- 210. Typically a disease of elderly women

Multiple sclerosis

- 211. Affects persons between the ages 20 and 40 years
- 212. Follows a relapsing and remitting course
- 213. Shows characteristic amyloid plaques in the brain
- 214. Is an autoimmune disorder

Clinical effects of arterial thrombus include

- 215. Systemic embolism
- 216. Infarction of solid organs
- 217. Thrombophlebitis

Shock due to increased vascular permeability is caused by

- 218. Bacterial toxaemia
- 219. Anaphylaxis
- 220. Acute blood loss

Complications encountered in atherosclerosis include

- 221. Formation of thrombus
- 222. Plaque rupture
- 223. Capillary microangiopathy
- 224. Embolism
- 225. Vasculitis

Acute myocardial infarction

- 226. Of the subendocardial type show good initial clinical response
- 227. After 3-6 weeks show granulation tissue
- 228. Shows elevated alkaline phosphatase within 4 hours
- 229. Is complicated by arrhythmias in the first few days
- 230. Can sometimes be silent and asymptomatic

Squamous cell carcinoma of lung is

- 231. Closely associated with cigarette smoking
- 232. Almost always hilar in location
- 233. Also known as 'oat cell carcinoma'

Hyaline membrane disease

- 234. Is associated with Charcot-Leyden crystals
- 235. Is caused by oxygen toxicity
- 236. Leads to diffuse alveolar damage

Bronchopneumonia

- 237. Involves only one lobe of the lung
- 238. Leads to patchy consolidation of the lung
- 239. Occurs commonly in old age and infants
- 240. Is commonly caused by streptococcus pneumoniae

With regard to benign nodular hyperplasia of prostate

- 241. It usually involves the peri-urethral group of prostatic glands
- 242. There is hyperplasia of both glands and stroma
- 243. It is premalignant

Characteristics of hydatidiform mole include

- 244. Swollen chorionic villi and trophoblastic proliferation
- 245. High levels of human chorionic gonadotrophin
- 246. Higher incidence of choriocarcinoma
- 247. Uterine size larger for the gestational age

In fibrocystic disease of the breast

- 248. Adenosis refers to enlargement of breast lobules
- 249. Epithelial hyperplasia occurs in interlobular and intralobular ducts
- 250. Apocrine metaplasia is a malignant change

Regarding glomerular disease

- 251. Minimal change disease is the commonest cause of nephrotic syndrome in children
- 252. Crescentric glomerulonephritis has excellent prognosis
- 253. Membranous glomerulonephritis is characterized by capillary wall thickening, proliferation of epithelial cells and inflammation

Acute tubular necrosis

- 254. Causes irreversible acute renal failure
- 255. Clinically manifests as initial oliguric phase followed by diuretic phase
- 256. Is a complication of profound hypotension

Regarding carcinomas of the bladder

- 257. Adenocarcinomas are the commonest histological type
- 258. Calculi predispose to transitional cell carcinoma
- 259. Painless haematuria is the commonest presenting feature of transitional cell carcinoma
- 260. Transitional cell carcinomas with a papillary growth are usually low grade tumours