

**INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO, RAJAGIRIYA
BUMS LEVEL III – FIRST SEMESTER EXAMINATION – NOVEMBER 2015**

PATHOLOGY - I
COURSE CODE - AS 3103

Time: 2 ½ hours
1.45 p.m. – 4.15 p.m.

Index no

Answer all questions.

Part I - Structured Questions

01. . 1. Define the term “ **Inflammation** ” (0.5 Marks)

11. Name four cardinal signs of inflammation (1 Mark)

111. Name three types of cells which are dominating in chronic inflammation (1.5 Marks)

B. 1. Define the term “ **Exudate** ” (0.5 Marks)

11. How could you differentiate exudate from transudate (1.5 Marks)

111. List three types of exudates and give examples of diseases in which those exudates are produced. (1.5 Marks)

C. 1. Define the term " Tissue healing"

(1 Mark)

11. List the two types of tissue healing methods with examples

(1 Mark)

111. what are the four phases of adult tissue healing process

(1.5 Marks)

02. A. A 40 year old man complains of increasing difficulty in swallowing in the past 3 years. He reports a feeling of pressure in the chest occurring 2-3 seconds after swallowing a solid bolus. He also experiences regurgitation of undigested food eaten hours previously. A radiograph taken after swallowing barium shows a distended esophageal body with a smooth tapering at the lower esophageal sphincter. Manometry shows the absence of esophageal peristalsis and a lower esophageal sphincter that fails to relax.

1. What is your most likely diagnosis?

(1.5 Marks)

11. What is the pathological problem in the above condition?

(1 Mark)

111. Name three pathological conditions can present like the above condion?

(1.5 Marks)

B. 1. Define the term "Bronchiectasis"

(1 Mark)

11. List five major causes for bronchiectasis ?

(1 Mark)

111. List 3 major pathological complications of bronchiectasis

(1 Mark)

C. 1. What is **metastatic calcification**?

(0.5 Marks)

11. List three conditions in which metastatic calcification takes place

(1.5 Marks)

111. List three malignant diseases causes **polycythemic paraneoplastic syndrome**

(1 Mark)

Part II - Essay Questions

01. A. 1. Define the term "Neoplasia" (02 Marks)

11. Enumerate the differences between benign and malignant neoplasms (04 Marks)

B. Explain the different types of exudates in different pathological conditions (06 Marks)

C. Explain the composition and functions of inflammatory exudates (08 Marks)

02. A. I. What is "diverticulosis"? (02 Marks)

II. What can cause this condition? (3.5 Marks)

B. Explain the pathophysiological complications of **duodenal diverticulosis**? (4.5 Marks)

C. 25 years old doctor presented to the gastroenterologist with the long history of bloody diarrhea. He had previously been investigated by sigmoidoscopy and started a course of steroid treatment. He also complained crampy lower abdominal pain and recent loss of 8 kg. on examination, he was pale, pyrexial, tender in the left iliac fossa but no mass were palpable.

I. What pathological features would suggest this is ulcerative colitis rather than crohns colitis? (06 Marks)

II. What are the complications of this condition? (04 Marks)

03. Write short notes on the followings

A. Wound healing by first intention (04 Marks)

B. Para neoplastic syndrome (08 Marks)

C. Cellular Adaptations (08 Marks)

02.11.2015