



GRETSA UNIVERSITY - THIKA

UNIVERSITY EXAMINATIONS JANUARY - APRIL 2017 SEMESTER

CERTIFICATE IN MEDICAL LABORATORY

COURSE CODE: CIML 032

COURSE TITLE: DISEASE PATHOLOGY

DATE: 3 APRIL 2017

TIME: 11.30 AM - 1.30 PM

INSTRUCTIONS TO CANDIDATES

1. SECTION A IS **COMPULSORY**.
2. SECTION B: ANSWER ANY OTHER **THREE** QUESTIONS.
3. **DO NOT** WRITE ANYTHING ON THIS QUESTION PAPER AS IT WILL BE AN EXAM IRREGULARITY.
4. ALL ROUGH WORK SHOULD BE AT THE BACK OF YOUR ANSWER BOOKLET AND CROSSED OUT.

CAUTION: All exam rooms are under CCTV surveillance during the examination period.

SECTION A

[ANSWER ALL QUESTIONS IN THIS SECTION]

MULTIPLE CHOICE QUESTIONS [1-5] [ONE MARK EACH]

1. Pathology studies all of the following except one, which one is it?
 - A. Etiology
 - B. Pathogenesis
 - C. Clinical features
 - D. Treatment

2. The following are diagnostic techniques in pathology except?
 - A. Histopathology
 - B. Cytopathology
 - C. Hematopathology
 - D. Genetics

3. Which one of the following is not an environmental cause of disease?
 - A. Physical agents
 - B. Nutritional deficiencies
 - C. Psychogenetic factors
 - D. Inheritance

4. The course of diseases is all of the following except?
 - A. Exposure
 - B. Biological
 - C. Clinical onset
 - D. Control

5. The following are types of cellular adaptation when injured except?
 - A. Metaplasia
 - B. Hypertrophy
 - C. Atrophy
 - D. Hypertension

6. Outline the possible outcomes when a cell is exposed to an injurious agent [3mks]

7. Briefly describe the reversible cellular changes in the event of injury [4mks]

8. Give the procedure of fine needle aspirate (FNA) as used in cytology [5mks]

9. Using relevant examples differentiate the following terms

- a) Infection and infestation
- b) Autopsy and biopsy [4mks]
- 10. Highlight any four applications of cytological techniques [4mks]
- 11. Briefly explain the causes of inflammation [5mks]
- 12. Highlight five cardinal signs of acute inflammation [5mks]
- 13. Outline the diagnostic techniques used in pathology [5mks]

SECTION B : ANSWER ANY THREE QUESTIONS FROM THIS SECTION:

- 14. a). Discuss any five beneficial effects of inflammation [10mks]
- c) Discuss the harmful effects of inflammation [10mks]

- 15. a) Define hypoxia [2mks]
- b) Explain any four causes of hypoxia [8mks]
- c) Discuss any five types of necrosis [10mks]

- 16.a) Discuss the environmental causes of disease with examples [10mks]
- b) Discuss the histopathological techniques used in pathology [10mks]

- 17a) Discuss the steps involved in phagocytosis [10mks]
- b) Discuss the path followed by a disease in absence of intervention [10mks]