

[LQ 114]

AUGUST 2020

Sub. Code: 2011

(MAY 2020 SESSION)

M.D. DEGREE EXAMINATION

BRANCH III – PATHOLOGY

PAPER II – GENERAL PATHOLOGY

Q.P. Code: 202011

Time : 3 Hours

Maximum : 100 Marks

I. Essay:

(2 x 15 = 30)

1. What is Amyloidosis? What are the causes of primary and secondary amyloidosis? What are the organs affected and their morphological changes? What are the sites of biopsy? What are the special stains and tests done to diagnose it?
2. Write about Bio-terrorism and categorization. What are the emerging infectious diseases and write about the epidemiological strategies on how to control them in brief.

II. Write short notes on:

(10 x 5 = 50)

1. Warburg effect
2. SIDS
3. Tonofilaments
4. HLA in health and disease
5. Ochronosis
6. Effects of hyperthermia
7. Chaperons
8. What is “Cigarette Pack Years”
9. BRAF mutations and malignancies involved
10. Procalcitonin

III. Reasoning Out:**(4 x 5 = 20)**

1. A 26 year old female primi admitted to labour ward with labour pain and prolonged labour. On table patient developed breathlessness and developed seizures and died. Autopsy was done, sections were taken from lungs.
 - a) What is your probable diagnosis for the cause of death in this patient?
 - b) What are the morphological changes in the lung?
 - c) What are the special stains you would like to use?
 - d) What altered hematological parameters you anticipate?
2. A 6 month old infant had abdominal mass weighing 1 Kg with multiple nodules on the skin, presented with fever and weight loss. Child also had proptosis and bladder dysfunction.
 - a) What is your probable diagnosis?
 - b) What are the prognostic markers and the abnormal biochemical findings?
 - c) What is the probable stage of the disease at this presentation?
 - d) What is the morphology?
 - e) What are the genetic mutations?
3. A 30 year old male, fisherman residing at Thoothukudi close to industrial area, where industrial wastes were let out into the sea and whose family consumed fish. He presented with deafness, tremors, gingivitis and behavioural disorders.
 - a) What is your probable diagnosis?
 - b) What are the two major system involved in this disease?
 - c) What are the various sources of exposure leading to this disease?
 - d) Which are the previous major disasters occurred due to this disease?
4. A 6 year old male child presenting with severe malabsorption, abdominal distension, poor weight gain, large foul smelling stools with repeated respiratory infections came to the paediatric OP. On examination showed hepatomegaly
 - a) What is your probable diagnosis?
 - b) What is the diagnostic test done with its significance?
 - c) What are the genetic mutations observed?
 - d) How do you classify the disease based on the mutations?
