

THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MD 0522]

MAY 2022

Sub. Code: 2011

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. Write in detail about various types of transplants and pathological changes in rejection of tissue transplants.
2. Discuss in detail about mechanisms of cell injury.

II. Write short notes on:

(10 x 5 = 50)

1. Write in detail about cell adhesive proteins, types and diseases associated with them.
2. Stem cells and their significance.
3. Brief write about role of cell signaling.
4. Briefly describe about Mutations.
5. The Warburg effect.
6. Types of collagen and diseases associated with it.
7. Write about Immunological Tolerance.
8. Transplant of hematopoietic cells.
9. Evasion of Host defense.
10. Lab diagnosis of Cancer.

III. Reasoning Out:

(4 x 5 = 20)

1. A 40 Year old man, painter by profession, presented with wrist drop and features of chronic renal failure.
 - a. What is the most possible diagnosis and pathological changes.
 - b. What is the toxicity involved?
 - c. Congenital deformities associated with this condition.
 - d. Write about complications.

2. A 20 year old male met in with an accident and sustained fracture of Lt. leg and got admitted and developed dyspnoea.
 - a. What are the possible cause for development of dyspnoea?
 - b. Name other similar conditions.
 - c. Write in detail about fracture healing.
 - d. Factors influencing healing.

3. A 25 year old male presented with lower abdominal pain, weight loss, recurrent lung infection & steatorrhoea. USG revealed intussusception
 - a. What are the probable diagnosis?
 - b. Pathogenesis of the condition.
 - c. Morphology of organs involved.
 - d. Characteristics of lung infection associated.

4. A 15 year old boy fainted and fell down after an injection of antibiotics.
 - a. What is the diagnosis?
 - b. What are the other type of reaction in this category?
 - c. Write in detail about pathophysiology of this condition?
 - d. Write about morphological changes expected.

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