

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

**[MD 1022]**

**OCTOBER 2022**

**Sub. Code: 2012**

**M.D. DEGREE EXAMINATION  
BRANCH III – PATHOLOGY  
PAPER III – SYSTEMIC PATHOLOGY**

***Q.P. Code: 202012***

**Time : 3 Hours**

**Maximum : 100 Marks**

**I. Essay:**

**(2 x 15 = 30)**

1. Pathogenesis, types, morphology, staging of Malignant Tumors of Endometrium.
2. Enumerate non small cell lung carcinoma. Discuss the morphology and immunophenotype of Adenocarcinoma.

**II. Write short notes on:**

**(10 x 5 = 50)**

1. Classify COPD, Describe in detail about Bronchiectasis.
2. Write about Hypertrophic Gastropathies.
3. Cystic tumours of pancreas.
4. Write in detail about toxic Myopathies.
5. Briefly write about neurosyphilis.
6. Make a brief note of precursor lesions of HCC.
7. Describe about molecular mechanisms of breast cancer.
8. Write in detail about  $\alpha_1$  antitrypsin deficiency.
9. Briefly write about acute kidney injury.
10. WHO Classification of Ovarian Neoplasms and describe briefly about Transitional Cell tumor.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. A 70 year old male presented with complaints of difficulty in passing urine and severe back ache.
  - a. What's the probable diagnosis?
  - b. Describe about etio-pathogenesis, morphology of the lesion.
  - c. Do the different grading system and staging of the lesion.
  - d. What is the biochemical markers associated with it?

2. A 15 Year old boy presented with painful swelling of Rt. Knee. X-ray revealed metaphyseal lytic lesion with soft tissue extension.
  - a. What is your diagnosis?
  - b. What are the morphological variants?
  - c. What are the prognostic factors of this condition?
  - d. Mention predisposing factors.
  
3. A 65 Year old male presented with swelling on right iliac fossa. USG revealed a mass in caecum. Some distant and deep seated lymph nodes are seen in abdominal cavity.
  - a. Discuss about the possible tumors of this site.
  - b. What is the differential diagnosis for the lesion at this site?
  - c. How to confirm your diagnosis?
  - d. Write in detail about any one of the lesion.
  
4. A 50 Year old female presented with breast lump of size 4cms. Soft in consistency. HPE revealed large pleomorphic cells with prominent nucleoli.
  - a. What is your diagnosis?
  - b. Describe histopathological diagnostic criteria for the above lesion.
  - c. What are the IHC markers that can be useful?
  - d. What is the prognosis of this lesion?

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