

(MAY 2020 SESSION)

**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. Define Sudden Cardiac death? What are the most common causes for sudden cardiac death and explain in detail.
2. What is Glioblastoma Multiforme? What are the morphological features? How are the gliomas classified as per WHO? What is the molecular classification of Gliomas.

**II. Write short notes on:**

**(10 x 5 = 50)**

1. C-Kit positive tumors
2. Cytogenetics of Ewing's Sarcoma
3. NUT Carcinoma
4. Odontogenic tumors
5. Vesico-bullous lesions of skin
6. Cystic neoplasms of pancreas
7. Para-testicular tumors
8. Mucocoele of appendix
9. Hurthle cell neoplasms at various sites
10. Endomyocardial biopsy

### III. Reasoning Out:

(4 x 5 = 20)

1. A 45 year old female complaints of lump over right breast. Grossly it was solid and cystic. ER and Her2Neu negative.
  - a) What is the most probable diagnosis?
  - b) What are the other tumors that are ER and Her2Neu negative?
  - c) What is the significance of Ki-67 in these tumors?
  - d) What is the significance of Her2Neu overexpression?
2. A 65 year old female presented with post-menopausal bleeding. USG revealed mass in fundus measuring 2 cm in size. Adjoining endometrium appears atrophic.
  - a) What is your probable diagnosis?
  - b) What are the types and their prognostic significance?
  - c) What are the associated mutations?
  - d) What are the various histo-morphological types and grading system?
3. A 19 year old male, presented with hard testicular swelling. High orchidectomy was done. Gross examination showed variegated mass.
  - a) What is your probable diagnosis?
  - b) What are the biomarkers used to assess and their significance?
  - c) How are they categorized clinically?
  - d) What are the different stages of this?
4. A 60 year old male presented with abdominal pain. Post operatively gastrectomy specimen shows sub-serosal mass 30 cm in diameter, fleshy well circumscribed with overlying intact mucosa seen.
  - a) What is your probable diagnosis?
  - b) What is the differential diagnosis?
  - c) What are the mutations associated with these tumors?
  - d) What are the syndromes associated?
  - e) What is the specific IHC marker?

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