

**QP Code:104110**

**Reg. No.:.....**

**PG Degree Examinations in Pathology (MD) April 2019**

**Paper IV - Recent Advances and Applied Aspects**

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essay:**

**(20)**

1. Discuss the WHO 2017 classification of thyroid neoplasia. What are the major changes.

**Short Essays:**

**(8x10=80)**

2. Discuss molecular basis of endometrial carcinoma. Add a note on (PTEN) phosphatase tensin homologue and beta catenin
3. Proteomics - its role in diagnosis of various diseases
4. Tumors of cells of accessory immune system
5. Role of ATRX (Alpha-Thalassemia/mental retardation syndrome X-linked) in glioma
6. Diagnostic applications of electron microscopy
7. Discuss the advantages and disadvantages in evaluation of microvascular density in tumors
8. Next generation DNA sequencing
9. Recent advances in cardiomyopathy.

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