

**QP Code:104110**

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

**PG Degree Supplementary Examinations in Pathology (MD)  
October 2018**

**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 principle of IHC and use of molecular markers in diagnosis and prognosis of brain tumours

**Short Essays: (8x10=80)**

2. HPLC
3. Molecular alterations in sarcomas
4. Systemic inflammatory response syndrome (SIRS)
5. Mutations in BRAF genes.
6. Principle and application of RT-PCR
7. Discuss the role of leptin in carcinogenesis
8. Triple negative breast cancer
9. Telomerase – A molecular marker for cervical cancer screening

\*\*\*\*\*