

**QP Code: 101101**

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

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

**Paper I – History, Basic Sciences & Equipments**

**Time: 3 hrs**

**Max marks:100**

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

**Essay:**

**(20)**

1. Define breathing system and the components. Describe Mapleson's classification of breathing systems with diagrams and functional analysis of Bain's circuit.

**Short essays:**

**(8x10=80)**

2. Poynting effect.
3. Sir Robert Macintosh.
4. Second gas effect
5. Diagnosis and management of intraoperative venous air embolism
6. Hyper carbia.
7. Cerebral circulation.
8. Functional residual capacity (FRC).
9. Trans esophageal echocardiography (TEE)

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