

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**M.D. Degree Examination – 12-Nov-2019**

**Time: Three Hours****Max. Marks: 100 Marks****ANAESTHESIOLOGY****PAPER – I****Q.P. CODE: 7291**

Your answers should be specific to the questions asked  
Draw neat labeled diagrams wherever necessary

**Answer All The Questions****10 x 10 = 100 Marks**

1. Classify opioids. Describe the pharmacodynamics and pharmacokinetics of sufentanil. How do you antagonise the respiratory depressant action of opioids?
2. Explain the working principle of a pulse oximeter. What are the conditions in which pulse oximeter would be unreliable?
3. Mixed venous oximetry.
4. Ether day.
5. Regulation of hepatic blood flow.
6. Anatomy of the caudal space.
7. Starling's law of capillary filtration.
8. 2,3 – Diphosphoglycerate.
9. Describe the physiological changes during pregnancy and their clinical implications in anaesthesia practice.
10. Discuss the various methods of disinfection and sterilization related to anaesthesia practice.

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