

Code: 1301

Reg. no.: .....

First Professional MBBS Degree Supplementary Examinations, March 2012

**PHYSIOLOGY- PAPER I****Time: 3 Hours****Total Marks: 50**

- Answer all questions
- Draw Diagrams wherever necessary

**Long Essay:****(10)**

1. A 50 year old male come with complaints of difficulty in breathing. Auscultation revealed the presence of rhonchi in all the lung fields. Patient's pulmonary function tests revealed  
FVC decreased  
FEV1=60%
- What is FVC and FEV1.
  - Give the normal values of FEV1 and FEV1.
  - Describe the physiological basis for this change of FEV1.
  - What is the probable clinical condition.
  - What is the significance of FEV1.

(2+1+2+2+3=10)

**Short Essay:****(2x5=10)**

2. Describe the morphology, properties and functions of platelets.
3. Describe the functions and regulation of hydrochloric acid secretion

**Write briefly on****(5x3=15)**

4. Right atrial pressure changes.
5. Synthesis and functions of surfactants.
6. Role of juxta glomerular apparatus in the regulation of ECF volume.
7. Rh factor and it's clinical significance.
8. Phases of deglutition.

**Draw and label****(2x21/2 =5)**

9. The effect of temperature and pH on oxygen dissociation curve.
10. Normal ECG.

**Explain the physiological basis of the following****(5x2=10)**

11. Atonic bladder.
12. Megaloblastic anaemia in vitamin B<sub>12</sub> deficiency .
13. Acclimatization in high altitude.
14. Mouth to mouth respiration is the best form of artificial respiration.
15. Steatorrhoea in acute pancreatitis .

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