Q.P. Code: 103001

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First Professional MBBS Degree Supplementary Examinations - February 2016

PHYSIOLOGY- PAPER I

Time: 3 Hours Total Marks: 50

- Answer all questions
- Draw Diagrams wherever necessary

Long essay (10)

- 1. A motor cyclist met with a road traffic accident and was admitted in the causality. Clinical examination revealed, cold and clammy extremities, rapid thready pulse, and a blood pressure of 70/50mm of Hg. Answer the following:
 - What is the probable clinical condition.
 - Define shock and name the different stages of shock.
 - Describe the compensatory mechanisms in shock
 - What is neurogenic shock. $(1+2\frac{1}{2}+5+1\frac{1}{2}=10)$

Short essays (2x5=10)

- 2. Describe the composition and regulation of pancreatic juice secretion
- 3. Describe the effect of hypoxia and vitamin B₁₂ deficiency on erythropoiesis

Answer briefly (5x3=15)

- 4. Mechanism of gastric hydrochloric acid secretion
- 5. Surfactant
- 6. Fibrinolytic system
- 7. Ventilation perfusion ratio and its importance
- 8. Water re-absorption by renal tubules.

Draw and label $(2x2\frac{1}{2}=5)$

- 9. Cystometrogram
- 10. Jugular venous pressure tracing

Explain the physiological basis of the following

(5x2=10)

- 11. Administration of sodium and glucose together in oral rehydration.
- 12. Cardiac muscle cannot be tetanized.
- 13. Change in bladder function in spinal shock.
- 14. Role of oxygen in treatment of carbon monoxide poisoning.
- 15. Law of intestine.
