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Subject: Physiology

Paper; I

Full Marks: 100 Time: 3 hours

Attempt all questions. The figures in the margin indicate full marks,

- 1. a) What is erythropoiesis. What are the (sites) of erythropoiesis? List with diagram the various stages of development of RBC. How is erythropoiesis regulated? What is polycythaemia?
 - b) What is systemic arterial blood pressure? How it is kept within normal range? What is hypertension and what are the basic physiological principles of the treatment of hypertension?
- 2. a) Explain how oxygen is transported from lungs to tissues in details. Add a note on "P 50"
 - b) Draw a diagram of neuromuscular junction. Explain the mechanism of transmission across neuromuscular junction. Name three neuro-muscular blockers and mention their mechanism of action.
 - Describe the mechanism of secretion of Hydrochloric acid in stomach. Enumerate the neural and chemical mechanisms that control gastric secretion.

 5+5
- 3. Write a short notes on the following:

5x2

- (x) G-Protein.
- Discuss the importance of communication skill for a doctor.
- 4. Explanation the following statements:

5x4

- a) Alcohol intoxication can be avoided if it is consumed with fatty food.
- b) Hypoxic hypoxia causes polycythemia.
- Action potentials are propagative in nature.
- d) Coagulation is an example of positive feedback mechanism.
- e) Low dose aspirin is used in prevention of myocardial infarction.

P.T.O.