

QP Code: 101120

Reg. No.:.....

**PG Degree Examinations in Family Medicine (MD) - May 2017**

**Paper I – Basic Sciences as Applied to Family Medicine**

**Time: 3 hrs**

**Max marks:100**

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

**Essays: (20)**

1. A 35 years old lady presents with swelling of both feet. Answer the following
  - What are the possible pathologic mechanisms for this clinical presentation
  - Mention the possible causes for this presentation.
  - Draw an algorithm for clinical diagnosis of the possible causes. (8+6+6)

**Short Essays: (8 x 10 = 80)**

2. What are the normal blood sugar levels and mention the criteria for diagnosis of diabetes mellitus. What are the hormones that regulate blood sugar concentration and how
3. How blood clotting is regulated and list the possible mechanisms of bleeding disorders
4. What are the precautions you must take before transfusion of blood with reasons
5. Mention the biochemical pathways by which Vitamin D is available to the human body. What are the possible causes of deficiency and manifestations of its deficiency in the same
6. Describe with diagrams the blood pictures of Iron deficiency anaemia and megaloblastic anaemia.
7. Discuss 'significant bacteruria' in various age groups.
8. A 25-years old male has been told that he is "Hepatitis-B positive" in a routine blood test. He is asymptomatic. Explain the possible modes in which he could have got it. What are the modes of preventing this infection from spreading. Mention what needs to be done for him for follow up.
9. What are the ways in which a family physician can prevent spread of antibiotic resistance in the practice community with reasons

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