

QP Code: 101120

Reg. No.:.....

**PG Degree Supplementary Examinations in Family Medicine (MD)  
December 2020**

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

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay:**

**(20)**

1. 21-year-old college student presented with tiredness, polyuria and polydipsia for a week. He is dehydrated. Blood pressure is 80 / 40 mm Hg and his pulse rate is 110 / min. He has acidotic breathing. His random blood sugar is 620 mg%. His urine test for acetone is positive 4+.
  - What is the patho-physiology of this condition.
  - List the types of diabetes mellitus.
  - How will you manage this acute condition in this patient.
  - How will you follow-up this patient on the long-term. (5+3+6+6)

**Short Essays:**

**(8x10=80)**

2. Anatomy of the middle ear
3. Describe the physiological changes in pregnancy.
4. Pathogenesis of COVID pneumonia.
5. Describe the steps in doctor-patient consultation.
6. Describe the types, dose, duration of action and adverse effects of local anaesthetics.
7. List the drugs used in congestive heart failure. Describe the pharmacology of any two drugs.
8. Pathogenesis and management of oedema and ascites in an adult with chronic liver disease.
9. What are the possible mechanisms of anti-microbial resistance. How will you prevent anti-microbial resistance in your community.

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