

QP Code: 101120

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Family Medicine  
(MD) July 2023**

**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. 25-year-old lady who is married 6 months back, presents to you with history of palpitations and tremors for past one month. She had lost weight more than 10% and having frequent passage of stools. On examination she has fine tremors of both hands. She has bilateral diffuse enlargement of thyroid gland. Her pulse rate is 124 / minute.
  - a) What is the most probable diagnosis.
  - b) Describe five other signs including eye signs you are looking for in this patient.
  - c) Briefly describe the thyroid hormone synthesis.
  - d) How will you manage this patient in short term and in the long term. Describe the mechanism of action and adverse effects of the drugs you will use. If she gets pregnant, what are the changes needed in the drug therapy. (2+5+3+10)

**Short Essays:**

**(8x10=80)**

2. 42-year-old bank manager has come to you for a health check-up. He is a smoker and his father had myocardial infarction at the age of 46 years. His weight is 90 kilos and height is 172 cm.  
His Lipid profile is as follows; total cholesterol – 240 mg%, serum triglycerides – 1284 mg%. high density lipoproteins – 30 mg% low-density lipoproteins – 194 mg%.
  - Discuss a lifestyle diet management for this patient.
  - Describe the mechanism of action, dose and adverse effects of the drugs you have chosen for this patient.
3. Describe the anatomy of the knee joint.
4. What are the barriers to doctor-patient communication. How will you enhance doctor-patient relationship in your consultation.
5. 24-year-old lady has come with cough and breathlessness for the past one month, mostly at night. Her sputum test for tuberculosis was negative and chest X-ray was normal. She has done spirometry and come to see you. What is Spirometry and how will you interpret spirometry.
6. Physiology of menstruation.
7. Ankle Block – Describe the regional anatomy and procedure.
8. Pathogenesis of glaucoma.
9. Briefly describe the developmental milestones expected to be achieved by a two-year-old child with normal birth weight.

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