

QP Code: 101120

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Family Medicine (MD)
November 2025
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. A 28-year-old male Teacher has come to the Family Physician for recurrent cough and wheezing for the past 3 years. His height is 170 cm, and his weight is 95 kilos. He is obese and dyspnoeic at rest. His pulse rate is 100 / minute and regular. Blood pressure is 130 / 80 mm Hg. JVP is not elevated and no peripheral oedema. The respiratory rate is 30 per minute. Auscultation of the chest reveals normal heart sounds and bilateral expiratory polyphonic wheeze.
 - a) Mention the differential diagnosis you consider for this patient.
 - b) Describe the Pathophysiology of Asthma.
 - c) Mention any FOUR drugs used in Acute Severe Asthma and briefly describe their mechanism of action.
 - d) How will you explain the technique of using Metered Dose Inhaler to this patient.

(2+5+8+5)

Short Essays:

(8x10=80)

2. A 30-year-old married woman has come to the family doctor with complaints of aches and pain all over her body and tiredness for the past two months. She has been married for ten years, mother of two children and sterilised. Her height is 150 cm, her weight is 72 kilos.
 - a) List the “Seven Masquerades” you need to consider in this patient.
 - b) How will you diagnose each Masquerade.
3. 15-year-old girl has been detected to have Moderate Anaemia and mild hue of jaundice. Her BMI is 18 kg/m² and her abdomen examination shows a large Splenomegaly and mild Hepatomegaly during the routine school health check-up. Describe the plan for the further investigations for her and describe the role of each test.
4. Describe the BATHE technique of counselling in Family Practice.
5. Describe “The family life cycle”. What are the challenges faced by a 65-year-old couple visiting you.
6. 58-year-old male is working as a School Teacher in a famous elementary school in your area for second standard children. He has come to you with h/o cough for a month with sputum production. His Sputum for Gene-Xpert test is positive for Tuberculosis and sensitive to Rifampicin.
 - a) Discuss the pharmacotherapy of this patient.
 - b) What are the precautions will you take to prevent the spread of TB to the school children.
7. Briefly describe the anatomy of the knee joint. What are the pathological changes that lead to the Osteoarthritis of the Knee in a 60-year-old agricultural worker. (5+5)
8. List the Classification of antihypertensive drugs. Explain the dose and side effects of one drug in each class.
9. Describe the developmental milestones from birth to two years of age.
