

M.D. DEGREE EXAMINATION

BRANCH V – PHYSIOLOGY

**PAPER IV – HISTORY OF MEDICINE, RECENT ADVANCES IN
CLINICAL PHYSIOLOGY, ENDOCRINOLOGY AND
REPRODUCTIVE SYSTEMS**

Q.P. Code: 202021

Time : Three Hours

Maximum : 100 Marks

I. Essay Questions:

(2 x 15 = 30)

1. Discuss in detail about the neuro - endocrine control of menstrual cycle.
Add a note on effects of menopause.
2. Discuss in detail about calcium homeostasis. What is latent tetany?

II. Short notes:

(10 x 5 = 50)

1. Tests for ovulation.
2. Pathophysiology of obesity.
3. Growth inhibitors.
4. In-vitro fertilization.
5. Patch clamp technique.
6. B.K. Anand.
7. Camillo Golgi.
8. Glucose transporters.
9. Hypogonadism in males.
10. Feto-placental unit.

III. Reasoning Out:

(4 x 5 = 20)

1. Role of exercise in diabetes mellitus.
2. Postmenopausal women are more prone to osteoporosis. Explain.
3. Patients with hyperaldosteronism do not develop oedema despite sodium and water retention caused by mineralocorticoids.
4. Explain the administration of β adrenergic blockers in thyrotoxicosis.
