

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

M.D. DEGREE EXAMINATION - October 2018

OBSTETRICS AND GYNAECOLOGY

**PAPER I – APPLIED BASIC SCIENCES IN OBSTETRICS AND
GYNAECOLOGY**

Time: Three hours

Maximum: 100 marks

**Answer any FOUR in Anatomy and Physiology. Three in other subjects.
All questions carry equal marks**

I. ANATOMY : **(4 x 5 = 20)**

1. Isthmus of the uterus and its obstetric significance
2. Spermatogenesis
3. Pelvic ureter
4. Placental circulation

II. PHYSIOLOGY : **(4 x 5 = 20)**

5. Mechanism of amenorrhea and anovulation during lactation
6. Physiology of normal labour
7. How can you make the diagnosis of pregnancy in 1st trimester.
8. Hormonal changes in menstruation

III. BIOCHEMISTRY : **(3 x 5 = 15)**

9. Carbohydrate metabolism in pregnancy
10. Immunological tests for diagnosis of pregnancy
11. Tumour markers and its importance in gynaecology

IV. PHARMACOLOGY : **(3 x 5 = 15)**

12. Uses of GnRH analogues
13. Role of HRT in post menopausal women
14. Merits and demerits of prostaglandins in medical induction of labour.

V. PATHOLOGY : **(3 x 5 = 15)**

15. Frozen technique its merits and demerits.
16. Immunohistochemistry and its advantages in gynaecology.
17. Bethesda system of reporting cervical cytology

VI. MICROBIOLOGY : **(3 x 5 = 15)**

18. HPV and its role in cervical cancer.
19. Distinguishing features of vaginitis.
20. CDC guidelines for diagnosis of Acute PID and clinical criteria for initiating therapy.
