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Questions:

Case Study Questions

1. While teaching the concepts of gametogenesis, teacher told students that oogenesis and spermatogenesis differ significantly. Teacher also told them that unlike spermatogenesis, oogenesis begin during the foetal life of female.
However, in both the process, LH and FSH play a major role.
(i) When and where does spermatogenesis begin in males?
(ii) Mention the effect of LH and FSH on spermatogenesis.
(iii) At which stage of cell division, oogonia are present in the female ovary during birth?
(iv) When does the first and second polar body are formed during oogenesis?
(v) How many spermatozoa and ovum are formed from one spermatogonia and oogonia, respectively?

5 Marks

2. What is menstrual cycle? Explain the various events which occur during menstrual cycle.

3 Marks

3. How many eggs are released by a human ovary in a month? How many eggs do you think would have been released if the mother gave birth to identical twins?Would your answer change,if the twins born were fraternal?

2 Marks

4. Mention the names and the characteristics of different uterine wall layers in humans.Which one of them undergoes cyclic changes during menstrual cycle?

5. Semen consists of sperms only. Is this statement true? If no, name the other components along with their function.

Multiple Choice Question

6. About which day in a normal human menstrual cycle does rapid secretion of LH (popularly called LH surge) normally occurs?
(a) 14th day (b) 20th day (c) 5th day (d) 11th day

7. The nature of meiotic division during oogenesis in a human female is
(a) equal cell division (b) suspended cell division (c) continuous cell division (d) rapid cell division

8. Inner cell mass (embryo) contain certain cells that contain cells called stem cells which have the potency to:
(a) Give rise all the tissues and organs (b) Give rise only vital organs (c) Give rise hearts only (d) Give rise reproductive organs

9. Which of the following statements are correct:
Statement I: During the growth of embryo limbs and external genital organ is formed by the ends of 12 weeks.
Statement II: The sex of the developing embryo can be determined using ultra sonography after 3 months of pregnancy.
(a) Statement II is correct but statement I is incorrect (b) Both 'statements are correct (c) Both statements are incorrect
(d) Statement I is correct but statement II is incorrect.

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