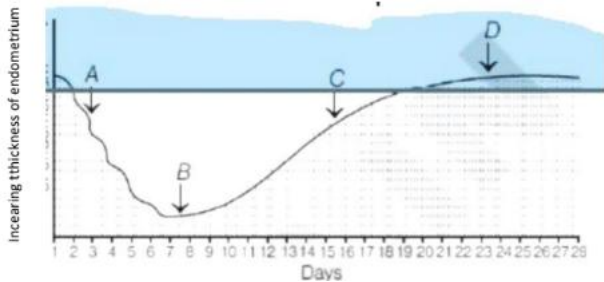
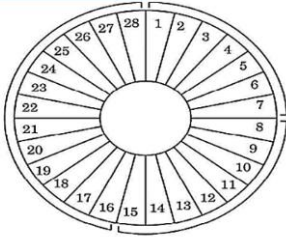
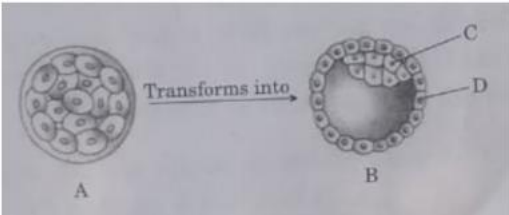




<p>1.</p>	<p>Which of the following statements are correct with respect to hormones secreted by placenta?</p> <p>(i) Placenta secretes relaxin during later stage of pregnancy. (ii) Placenta secretes high amount of FSH during pregnancy. (iii) Placenta secretes relaxin during initial stage of pregnancy. (iv) Placenta secretes hCG and hPL during pregnancy.</p> <p>(a) (i) and (iv) (b) (i), (ii) and (iv) (c) (iii) and (iv) (d) (ii), (iii) and (iv)</p>
<p>2.</p>	<p>The below diagram describes the changes that occurs in endometrium during normal menstruation. Choose the option with correct description for point A,B,C,D</p>  <p>(A) C- Ovulation B- Menstruation (B) A- Ovulation C-Menstruation (C) A- Menstruation C- Ovulation (D) B- Ovulation C- Menstruation</p>
<p>3.</p>	<p>Read the following statements.</p> <p>I. Each testes has 25 compartments called testicular lobules. II. Each testicular lobule contains one to three highly coiled seminiferous tubules in which sperms are produced. III. Sertoli cells provide nutrition to testicles IV. Sertoli cells are activated by FSH</p> <p>Which of above statements are incorrect?</p> <p>a. I and II b. only I c. I and III d. III and IV</p>

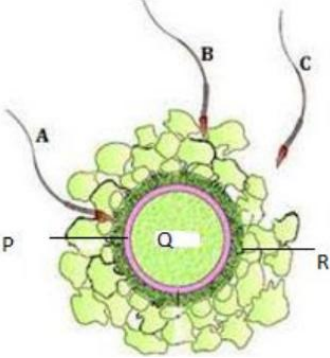
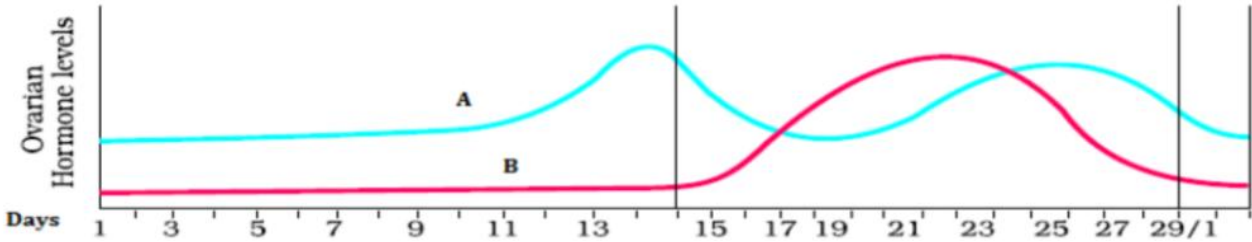


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4.	Assertion: Menstruation only occurs if the released ovum is not fertilized Reason: Lack of menstruation may be indicative of pregnancy
5.	Assertion (A): Zona pellucida is a non-cellular glycoprotein layer around the oocyte. Reason (R): Corona radiata is also a non-cellular layer of the oocyte.
6.	After implantation interdigitation of material and foetal tissues takes place. Identify the tissues involved and justify their role.
7.	Medically it is advised to all young mothers that breast feeding is the best for the new-born babies. Do you agree? Give reason in support of your answer.
8.	The formation of reproductive cells in human males takes place in the gonad while it is controlled by some other parts of the body. Justify the statement.
9.	Observe the diagram given showing the menstrual cycle of a normal human female and answer the questions that follow :  <p style="text-align: center;">Numbers indicate the days of the menstrual cycle</p> <p>(a) What are the suitable technical terms used for the following days? Days 1 to 5, Days 9 to 13 and Days 17 to 27.</p> <p>(b) Explain the role of ovarian and pituitary hormones during the following time periods: Days 11 to 14.</p>
10.	Study the given diagram:  <p>A is an embryonic stage that gets transformed into B, which in turn gets implanted in the endometrium in human females.</p> <p>(a) Identify A, B and its parts C and D.</p> <p>(b) State the fate of C and D in the course of embryonic development in humans.</p>
11.	A couple is trying to conceive and start a family. <p>(a) If the woman's period, which is regular, is scheduled to start on July 19, what was the estimated</p>



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	<p>date of ovulation for the previous cycle?</p> <p>(b) Name the four important reproductive hormones and state whether their levels will be high or low on the date identified in (a).</p>
12.	<p>The figure given below shows 3 sperms A, B and C.</p>  <p>a) Which one of the three sperms will gain entry into the ovum?</p> <p>b) Describe the associated changes induced by it on P and Q.</p>
13.	<p>Case Based Questions:</p>  <p>Read the graph given above and correlate the uterine events that take place according to the hormonal levels on</p> <p>(i) Identify 'A' and 'B'.</p> <p>(ii) Specify the source of the hormone marked in the diagram.</p> <p>(iii) Give reason why A peaks before B.</p> <p>(iv) Compare the role of A and B.</p> <p>(v) Under which condition will the level of B continue to remain high on the 28th day?</p>