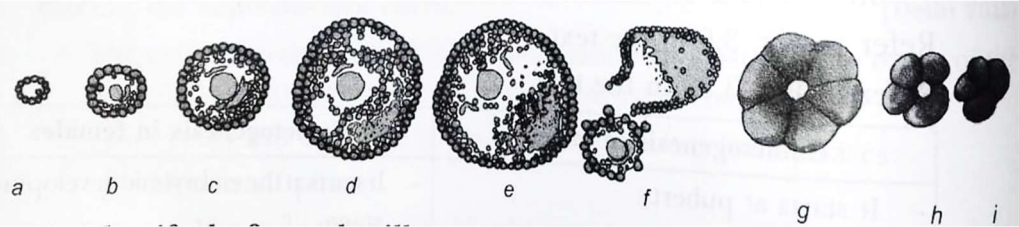
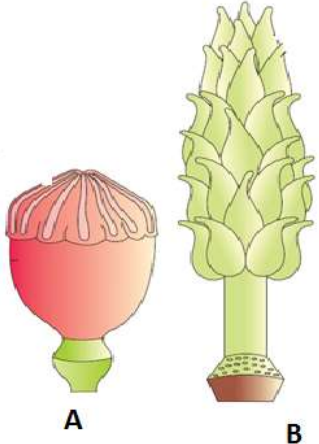


	<p>Mark the correct choice as:</p> <p>(a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.</p> <p>(b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.</p> <p>(c) If Assertion is true but Reason is false.</p> <p>(d) If both Assertion and Reason are false.</p> <p>Assertion: In some speies of asteraceae and poaceae, seeds are formed without fertilization.</p> <p>Reason: Formation of fruit without fertilization is called parthenocarpy.</p>	
7	<p>Assertion:Upto morula stage , the cells divide without any increase in size.</p> <p>Reason: Zona pellucid remainsintact till cleavage</p>	1
8	<p>Assertion:Viviparous animals give better protection to their offsprings.</p> <p>Reason: They lay their eggs in the safer places in the environ ment.</p>	1
SECTION-B		
9.	<p>The following is the illustration of the sequence of ovarian events (a to i) in a human female:</p>  <p>(a) Identify the figure that illustrates ovulation and mention the stages of oogenesis it represents.</p> <p>(b) Name the ovarian hormone and pituitary hormone that have caused the above mentioned event .</p> <p>(c) Specify the endocrine function of corpus luteum. How does it influence the uterus ? Why is it essential?</p> <p>(d) Explain the changes that occur in the uterus simulteneausly in anticipation.</p>	5
SECTION-C		
10	<p>These pictures show the gynoeceium (A) papaver and (B) michelia flowers . Write the difference in the structure of their ovaries .</p>	2

	 <p style="text-align: center;">A B</p>	
11	Differentiate between trophoblast and morula.	2
12	What is amniocentesis ? Justify the statutory ban on it.	2
13	A moss plant is unable to complete its life-cycle in a dry environment. State two reasons.	2
SECTION-D		
14	State what is apomixis. Comment on its significance. How can it be commercially used?	3
15	Make a list of any three out breeding devices that flowering plants have developed and explain how they help to encourage cross-pollination.	3
16	<p>i) Draw a sectional view of seminiferous tubule of a human . Label the following cells in the seminiferous tubule:</p> <p>a) Cells that divide by mitosis to increase their number .</p> <p>b) cells that undergo Meiosis I.</p> <p>c) cells that undergo Meiosis II</p> <p>d)cells that help in the process of spermatogenesis .</p> <p>ii) Mention the role of Leydig cells .</p>	3
SECTION-E		
17	<p>(a) Where does fertilization occur in humans? Explain the events that occur during this process</p> <p>(b) A couple where both husband and wife are producing functional gametes, but the wife is still unable to conceive, is seeking medical aid. Describe any one method that you can suggest to this couple to become happy parents.</p>	5