	Subject: Biology	
Date: 15/07/2022 Name:	Class: XII Roll No	M.M:40 Duration: 90 mins
General instructions :		
1.This question paper contain	17 questions.	
${\it 2. Question no. 1 to 5 are of 1}\\$	mark each. Question no. 6 to 10 are of 2	marks each . Question no.11 to 15
are of 3 marks each. Question	n no. 16 and 17 are of 5 marks each.	
3. Make diagram wherever r	equired .	
Indicate the stage where n	neiosis occurs (1, 2 or 3) in the flow chart	ī. 1
Megaspore mother c	ell 1 Megaspores	
2 Embryo sac		
2. How many sperms will be	produced from 10 primary spermatocyte	es and how many eggs will be
produced from 10 primary	oocytes?	1
3. Name the substance prese	nt in the sperm acrosome & which help i	n sperms entry into egg. 1
4. Give the scientific name of	f a plant which came to India as a contan	ninant with imported wheat and
causes pollen allergy.		1
5. Define parturition.		1
6. Give the function of :		2
• • •	b) Endometrium	
7. What relationship exists between a species of moth and Yucca plant?8. Why are cleistogamous flowers invariably autogamous?		
•	•	2
9. In the given figure, give th	e name and functions of parts labeled A	and B.
A STATE OF THE STA	DOCOCO CONTRACTOR OF THE PARTY	
10. An anther with malfunction	oning tapetum often fails to produce viab	le male gametophyte? Give one

2

3

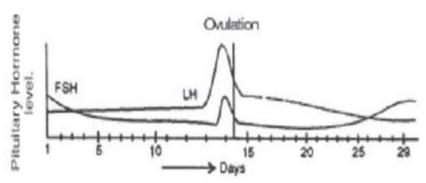
3

reason?

11. What is apomixis? What is its importance?

12. Explain the structure of an anatropous ovule with a neat labeled diagram?

3



- (i) 10th 14th days
- (ii) 14th -15th days
- (iii) 16th 23th days
- (iv) 25th 29th days

(If the ovum is not fertilised)

- (b) What are the uterine events that follow beyond 29th day if the ovum is not fertilised?
- 14. Three of the steps of neuro endocrine mechanism in respect of parturition are mentioned below. Write the missing steps in proper sequence.
 - (a) Signals originate from fully developed foetus and placenta.
 - (b) _____
 - (c) _____.
 - (d) Oxytocin causes strong uterine contraction
 - (e) Uterine contraction stimulates further secretion of oxytocin.
 - (f) _____.
- 15. Continued self pollination lead to inbreeding depression. List three devices, which flowering plant have developed to discourage self pollination?
- 16. A woman has conceived & implantation has occurred within her uterus. Discuss the sequence of changes up to parturition which will take place within her body under the influence of various hormones.
- 17. i) Why is zygotes dominant for sometime in fertilized ovule.

1+1+3

5

- ii) What is polyembryony? Give an example.
- iii) In fruits, what is formed from following parts:-
- a) Ovary wall b) Outer integument
 - c) Inner integument d) zygote
- e) primary endosperm f) Ovary