



B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL



MID-APRIL TEST 2025-26 BIOLOGY

Class: XII

Date: 16.04.25

Admission no:

Time: 1hour

Max Marks: 25

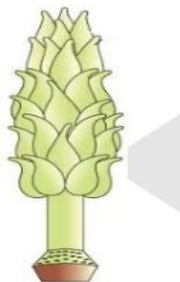
Roll no:

General Instructions:

- This question paper consists of 12 questions in 3 sections.
- Section A consists of 3 objective-type questions carrying 1 mark each.
- Section B consists of 5 Very Short questions carrying 02 marks each.
- Section C consists of 4 Short Answer questions with 03 marks each.

Section A

- Remnants of nucellus are persistent during seed development in:
a) pea c) wheat
b) groundnut d) black pepper 1
- Given below is a diagram of : 1



- Multicarpellary apocarpous gynoecium of michelia
 - Multicarpellary syncarpous gynoecium of michelia
 - Multicarpellary apocarpous gynoecium of papaver
 - Multicarpellary apocarpous gynoecium of papaver
- Select the correct anatomical sequence. 1
a) Seminiferous tubules → Rete testis → Vasa efferentia → Vasa deferens → Epididymis
b) Seminiferous tubules → Rete testis → Vasa efferentia → Epididymis → Vasa deferens
c) Seminiferous tubules → Vasa efferentia → Rete testis → Vasa deferens → Epididymis
d) None of these

Section B

- A fully developed foetus initiates its delivery from the mother's womb. Justify the statement. 2
- Draw and label the structure of human sperm. 2
- Differentiate between: 2
a) Spermiogenesis and Spermiation
b) menarche and menopause
- Mention two strategies evolved to prevent self-pollination in flowers. 2
- What is double fertilization? 2

Section C

- With a neat diagram explain the 7-celled, 8-nucleate nature of the female gametophyte. 3
- Briefly describe the process of spermatogenesis. 3

11. The figure given below shows 3 sperms A, B and C. 3
- a) Which one of the three sperms will gain entry into the ovum?
- b) Describe the associated changes induced by it on P and Q.

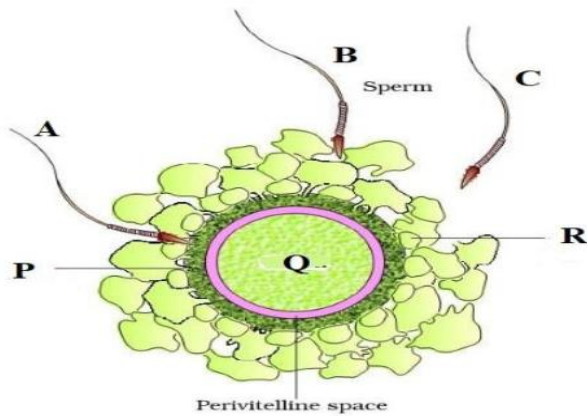


Figure — Ovum surrounded by few sperms

12. Artificial hybridisation is one of the major approaches of crop improvement programme. Explain the steps involved. 3

*****ALL THE BEST*****