



# BIOLOGY

## BOOKS - SARAS PUBLICATION

### ASSESSMENT TEST 3

#### Exercise

1. First cell of male gametophyte in angiosperm is

A. Microspore

B. Megaspore

C. Nucleus

D. Primary endosperm

**Answer: nucleus.**



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**2. Define Electrophoresis**

A. Multiple alleles

B. Polygenes

C. Incomplete dominance

D. Codominance

**Answer:**



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**3.** Due to incomplete linkage in maize, the ratio of parental and recombinants are

A. 2.1180555555556

B. 7:1:1:7

C. 96.4:3.6

D. 1:7:7:1

**Answer:**



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4. \_\_\_\_\_ is father of "Indian Green Revolution"

A. Birbal Sahni

B. M.S. Swaminathan

C. B.G.L. Swamy

D. Janaki Ammal

**Answer:**



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5. Which of the following statement is correct

A. Agar is not extracted from marine algae

such as seaweeds

B. Callus undergoes

C. Differentiation and produces somatic embryoids

D. Surface sterilization of explants is done by using mercuric bromide

**Answer: pH of the culture medium is 5.0 to 6.0**



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6. Which of the following nutrient medium is commonly used for plant tissue culture?

A. MS medium

B. B5 medium

C. White medium

D. Nitsch's medium

**Answer:**



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**7. The stalk of ovule**

A. Integument

B. Funicle

C. Chalaza

D. Embryo sac

**Answer:**



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**8.** Aminobenzotloxymethyl filter paper is used for

A. Southern blotting



B. Northern Blotting

C. Western Blotting

D. Southern North blotting.

**Answer:**



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9. 'Gametes are never hybrid'. This is a statement of

A. Law of dominance

B. Law of independent assortment

C. Law of segregation

D. Law of random fertilization

**Answer:**



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**10.** List any two strategies adopted by bisexual flowers to prevent self-pollination .



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**11.** Explain the gene which is responsible for the purple colouration of pea flower.



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**12.** What is meant by bivalents?



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**13.** Discuss the importance of biotechnology in the field of medicine.



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**14.** Name the enzyme which is purified from calf intestine.



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**15.** Define pollen calendar. What are the allergic reactions caused by pollen grains?



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**16.** Define pollen calendar. What are the allergic reactions caused by pollen grains?



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**17.** Differentiate incomplete dominance and codominance.



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**18.** What do you mean by Germplasm conservation? Describe it.



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**19.** What is ELSI?



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**20.** What is meant by hyperploidy?



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**21.** What is the difference between missense and nonsense mutation?



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