



# BIOLOGY

## BOOKS - SARAS PUBLICATION

### ASSESSMENT TEST 4

#### Exercise

1. Read the given statements and select the correct option.

Statement A : Cattle do not graze on weeds of

Calotropis.

Statement B : Calotropis have thorns and spines, as defense against herbivores.

A. Both statements A and B are incorrect.

B. Statement A is correct but statement B is incorrect

C. Both statements A and B are correct but statement B is not the correct explanation of statement A

D. Both statements A and B are correct but statement B is the correct explanation of statement A

**Answer:**



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2. Vivipary mode of seed germination is found in

A. Mesophytes

B. Hydrophytes

C. Halophytes

D. Epiphytes

**Answer:**



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**3.** Identify the formula that gives the relationship between NPP and GPP.

A.  $NPP = \text{Respiration} - GPP$

B.  $GPP = \text{Respiration} - NPP$

C.  $NPP = GPP + \text{Respiration}$

D.  $NPP = GPP - \text{Respiration}$

**Answer:**



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**4. The unit for measuring ozone thickness**

A. Joule

B. Kilos

C. Dobson

D. Watt

**Answer:**



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5. \_\_\_\_\_ is the most damaging type of UV radiation.

A. UV-B

B. UV-C

C. UV-A

D. UV-D

**Answer:**



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**6.** Identify the conventional method of plant breeding.

A. Genetic engineering

B. Mass selection

C. Tissue culture

D. DNA finger printing

**Answer:**



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7. Desired improved variety of economically useful crops are raised by

A. Natural selection

B. Hybridization



C. Mutaion

D. Biofertilizers.

**Answer:**



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**8. Tamarindus indica is indigenous to**

A. Tropical African region

B. South Indis, Sri Lanks

C. South America, Greece

D. India alone.

**Answer:**



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**9. Identify the less pungent variety.**

A. *Capsicum frutescens*

B. *Capsicum pubescens*

C. *Capsicum annum*

D. *Capsicum baccatum*

**Answer:**



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**10.** Which of the following ecosystem has the highest primary productivity?

- A. Pond ecosystem
- B. Lake ecosystem
- C. Grassland ecosystem
- D. Forest ecosystem

**Answer:**



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**11.** Mention two morphological adaptations of hydrophytes.



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**12.** What is Albedo effect and write their effects?



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**13.** Write the causes of Albedo effects.



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**14.** Explain the law which states that energy transformation cannot be 100% efficient.



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**15.** What are blue carbon ecosystem?



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**16.** Suggest a solution to water crisis and explain its advantages.



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**17.** What is meant by biological indicators ?  
Give example .



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**18.** List the plants that are used as biological indicators. Mention what they indicate for?



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**19.** Explain the best suited type of breeding followed by plant breeders at present?



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**20.** Name a fern that fixes the atmospheric nitrogen and describe it.



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**21.** What will happen if all producers are removed from ecosystem?



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**22.** How will you prepare an organic pesticide for your home garden with the vegetables available from your kitchen ?



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**23.** What are psychoactive drugs? Add a note Marijuana and Opium.



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