



BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

SAMPLE PAPER -5 (SOLVED)

Part I

1. Identify plant species which is popularly called as “Terror of Bengal”.

A. *Eichornia Crassipes*

B. *Vallisneria spiralis*

C. *Pistia stratiotes*

D. *Zostera marina*

Answer: A



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

A. Law of dominance

B. Law of segregation

C. Law of lethality

D. Law of independent assortment

Answer: B



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3. Match list I with list II

List I

- A) A pair of chromosomes extra with diploid
- B) One chromosome extra to diploid
- C) One chromosome loses from diploid
- D) Two individual chromosomes lose from diploid

List II

- (i) Monosomy
- (ii) Tetrasomy
- (iii) Trisomy
- (iv) Double monosomy

A. A-i, B-iii, C-ii, D-iv

B. A-ii, B-iii, C-iv, D-i

C. A-ii, B-iii, C-i, D-iv

D. A-iii, B-ii, C-i, D-iv

Answer: C



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4. EcoRI cleaves DNA at

A. AGGGTT

B. GTATATC

C. GAATTC

D. TATAGC

Answer: C



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5. is the climax community of hydrosere.

A. Reed Swamp stage

B. Marsh meadow stage

C. Shrub stage

D. Forest stage

Answer: D



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6. People's movement for the protection of environment in Sirsi of Karnataka is

A. Chipko movement

B. Appiko movement

C. Amirtha Devi Bishwas movement

D. None of the above

Answer: B



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7. Which of the following is incorrectly paired?

A. Wheat - Himgiri

B. Rice - Ratna

C. Milch breed - sahiwal

D. Pusa komal - Brassica

Answer: D



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8. Tectona grandis is coming under family

A. Lamiaceae

B. Fabaceae

C. Dipterocarpaceae

D. Ebenaceae

Answer: A



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9. Assertion (A): In bee society, all the members are diploid, except drones.

Reason (R): Drones are produced by parthenogenesis.

A. A and R are true, R is the correct explanation for A

B. A and R are true, R is not the correct explanation for A

C. A is true, R is false

D. Both A and R are false

Answer: A



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10. Colostrum is rich in

A. IgE

B. IgA

C. IgD

D. IgM

Answer: B



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11. Match column I with column II

Column I	Column II
(A) Copper releasing IUD	(i) LNG-20
(B) Hormone releasing	(ii) Lipper's loop IUD
(C) Non-medicated IUD	(iii) Saheli
(D) Minipills	(iv) Multiload-375

A. A-iv, B-ii, C-i, D-iii

B. A-iv, B-i, C-ii, D-iii

C. A-iv, B-i, C-ii, D-iii

D. A-i, B-iv, C-iii, D-ii

Answer: B



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12. Which of the following is the correct sequence of event with reference to central dogma?

A. Transcription, Translation, Replication

B. Transcription, Replication, Translations

C. Duplication, Transcription, Translation

D. Replication, Transcription, Translation

Answer: D



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13. Spread of cancerous cells to distant sites is termed as

A. Metastasis

B. Oncogenes

C. Proto-oncogenesi

D. Malignant neoplasm

Answer: A



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14. How many amino acids are arranged in the two chains of Insulin?

A. Chain A has 12 and Chain B has 13 amino acids

B. Chain A has 21 and Chain B has 30 amino acids

C. Chain A has 20 and chain B has 30 amino acids

D. Chain A has 12 and chain B has 20 amino acids

Answer: B



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15. Who introduced the term biodiversity?

A. Edward Wilson

B. Walter Rosen

C. Norman Myers

D. Alice Norman

Answer: B



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16. What is known as sustainable development of agriculture?

A. Action 21

B. Agenda 21

C. Declaration 21

D. Protocol 21

Answer: B



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Part ii

1. Draw and label the structure of a mature embryo sac of angiosperm.



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2. What are plasmogenes?



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3. Define the terms (a) Bioventing (b) Bioaugmentation



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4. Differentiate between Frog and Toad.



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5. What are blue carbon ecosystem?



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6. What is silvopasture system? How it helps economy?



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7. How is polyspermy avoided in humans?





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8. What are holandric genes?



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9. What are connecting links ? Give example .



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10. *Saccharomyces cerevisiae* commonly called brewer's yeast justify



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11. Give the diagnostic characters features of a Biome ?



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12. What would Earth be like without the greenhouse effect?



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Part Iii

1. Given an account of an king of spices and its uses.



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2. Distinguish between primary production and secondary production



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3. What is co-evolution? Explain with example,



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4. What do you mean by Germplasm conservation? Describe it.





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5. What are the reasons for Mendel's successes in his breeding experiments?



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6. Write a short note on phases of life cycle.



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7. What is MTP? Add a note on it.



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8. Give reasons: Genetic code is 'universal'.



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9. Autoimmunity is a misdirected immune response. Justify.



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10. PCR is a useful tool for early diagnosis of an Infectious disease. Elaborate.



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Part Iv

1. How is Nicotiana exhibit self-incompatibility?
Explain its mechanism.



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2. Write a note on Applications of plant tissue culture.



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3. Describe the various stages of decomposition process



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4. Explain the steps involved in hybridization.



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5. (a) Give an detailed account on various natural methods of contraception.



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6. Explain the three major categories in which fossilization occur.



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7. (a) Explain in detail about stem cell therapy.



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8. Explain in detail about various types of extinctions.



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