

BIOLOGY

BOOKS - ARIHANT PUBLICATION

CHSE ODISHA (EXAMINATION PAPER - 2019)

Section A Botany

1. Fill in the blanks: The most common and abundant greenhouse gas is

B. CFC

C. carbon dioxide

D. nitrous oxide

Answer: C



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2. Nocturnal flowers like Nyctanthes attract insects by their

- A. colour
- B. nectar
- C. scent
- D. edible sap

Answer: C



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3. Fill in the blanks selecting the appropriate terms given under each bit:

The example of start codon is

- A. UAA B. UGA C. UAG D. AUG **Answer: D**



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4. Fill in the blanks: The phenomenon of single gene contributing to multiple phenotypic traits is called _____

A. pleiotropy
B. codominance
C. Incomplete dorninance
D. polygenic inheritance
Answer: A
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5. Fill in the blanks: Fermentation of milk sugar
, is done by Lactobacillus

- A. glucose
- B. fructose
- C. sucrose
- D. lactose

Answer: D



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6. Correct the statement of each bit, if necessary, by changing the underlined word

only:

Carnivores are always primary consumers.



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7. Correct the statement of each bit, if necessary, by changing the underlined word only:

Yeasts generally reproduce asexually by fission.



8. Correct the statement of each bit, if necessary, by changing the underlined word only:

Nutritive tissue of a fertilized egg in angiosperms is embryo.



9. Correct the statement of each bit, if necessary, by changing the underlined word only:

Mutation that completely elimanates a gene is called silent mutation.



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10. Correct the statement of each bit, if necessary, by changing the underlined word only:

In tissue culture, amorphous mass of thinwalled parenchymatous cells developing from proliferating cells is called explant.



11. Write notes with 2 to 3 important points:

Ecological pyramid



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12. Write notes with 2 to 3 important points :

Population density attributes



13. Write notes on any three of the following, each with 2 to 3 important points:

Sporulation.



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14. Write notes with 2 to 3 important points:

Outbreeding devices



15. Write notes on any three of the following, each with 2 to 3 important points:

Single-cell protein



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16. Write notes on any three of the following each with 2 to 3 important points :

tRNA



17. Differentiate between the following with 2 to 3 important points: Parthenocarpy and Parthenogenesis



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18. Differentiate between any one pair of the following with 3 ot 4 important points :

Habitat and Niche.



19. Differentiate between the following with 2 important points : Somatic to 3 embryogenesis and Somatic hybridization



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20. Answer within 200 words: Give a structure of a typical pollen grain and its pre- and post pollination changes.



21. Describe the process of DNA replication.



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22. Answer any two questions (restrict each answer within 200 words):

Describe the structure of a mature human sperm with the help of a well-labelled diagram.



23. Answer within 200 words: Discuss how waste water treatment can be done.



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Section B Zoology

1. What is the name of the scientist who cloned a sheep named Dolly?



2. Colostrum is rich in which type of antibody?



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3. Graafian follicle is observed in the ovary of

A. rohu

B. Amphloxus

C. salamander

D. human

Answer:



4. Which one is not terminal birth control method?

A. Vasectomy

B. Tubectomy

C. Hysterectomy

D. Copper-T

Answer:



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5. What is the diploid chromosome number in a person suffering from down syndrome ?

A. 45

B. 46

C. 47

D. 48

Answer:



6. Fill in the blanks with correct answer(s)/
Correct the underlined portion of the sentences:

Plasmodium vivax causes cerebral malaria.



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7. Fill in the blanks with correct answer(s)/
Correct the underlined portion of the sentences:

The full form of ELISA is



8. Fill in the blanks with correct answer(s)/
Correct the underlined portion of the sentences:

Cancer of muscle is named as



9. Fill in the blanks with correct answer(s)/
Correct the underlined portion of the

sentences:

Recapitulation theory was postulated by

•••••



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10. Correct the underlined portion of the sentence:

In honeybee, the process of development of female bee without fertilization is termed as swarming.



11. Answer any three of the following (restrict each answer to 2 or 3 important sentences)

What is HIV?



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12. What is Humulin?



13. What is tubectomy? **Watch Video Solution** 14. What is fossil? **Watch Video Solution** 15. What is antibody? **Watch Video Solution** **16.** Write a note on Queen bee ?



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17. Differentiate between with 3 to 4 important points:

Amoebiasis and Filariasis



18. Different the following (Restrict each answer three to four important sentences): Homologous organ and Analogous organ



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19. Differentiate between of the followingt- lymphocyte and B- lymphocyte



20. Write notes on any two of the following:

Biochemical origin of lige.



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21. Write notes on any two of the following:

Turner syndrome.



22. Write notes on any two of the following:

Human male reproductive system



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23. Write notes on any two of the following:

Spermiogenesis.



24. Illustrate in detail the process of spermatogenesis in human.



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25. What is sex-linked inheritance? Discuss how sex-linked gene inheritance occurs in human, giving two examples.



26. Describe briefly recombinant DNA technology.

