

# **BIOLOGY**

# **BOOKS - MODERN PUBLICATION**

## **SAMPLE PAPER 2019**

Exercise

1. What is the diploid chromosome number in

a person suffering from down syndrome?

- A. 45
- B. 46
- C. 47
- D. 48

### **Answer:**



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



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3. Colostrum is rich in which type of antibody?



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4. Graafian follicle is observed in the ovary of

A. Rohu

B. Amphioxus

C. Salamander

D. Human

#### **Answer:**



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**5.** Which one is not terminal birth control method?

- A. Vasectomy
- B. Tubectomy
- C. Hysterectomy
- D. Copper-T

## **Answer:**



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**6.** Fill in the blanks with correct answer(s):

Recapitulation theory was postulated by\_\_\_\_\_.



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**7.** Correct the underlined portion of the sentence:

In honeybee, the process of development of

female bee without fertilization is termed as swarming.



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

Cerebral Malaria is caused by Plasmodium vivax.



9. Fill in the blank

The full form of ELISA is \_\_\_\_\_.

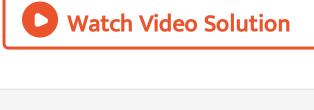
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**10.** Fill in the blanks with correct answer(s):

Cancer of muscle is named as\_\_\_\_\_.



11. What is fossil?



12. What is antibody?



**13.** Write a note on queen bee.



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**14.** What is HIV?



15. What is Humulin?



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**16.** What is tubectomy?



17. Different the following (Restrict each answer three to four important sentences):

Homologous organ and Analogous organ



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**18.** Differentiate between : B-lymphocytes and T-lymphocytes



19. Different the following (Restrict each answer three to four important sentences): Amoebiasis and Filariasis



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20. Describe briefly recombinant DNA technology.



21. Write notes on: Biochemical origin of life



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**22.** Write notes on : Turner syndrome



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23. Write notes on any two of the following:

Human male reproductive system



24. Write notes on:

Spermiogenesis



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**25.** Illustrate in detail the process of spermatogenesis in human.



**26.** What is sexlinked inheritance? Explain inheritance of haemophilia in man.



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Excercise

**1.** Fill in the blanks:The phenomenon of single gene contributing to multiple phenotypic traits is called \_\_\_\_\_

A. pleiotropy

В.	codominance

C. incomplete dominance

D. polygenic inheritance

#### **Answer: A**



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2. Fill in the blanks: Fermentation of milk sugar

,\_\_\_\_\_ is done by Lactobacillus ..

A. glucose

C. sucrose

D. lactose

#### **Answer: D**



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**3.** Fill in the blanks: The most common and abundant greenhouse gas is \_\_\_\_\_

A. methane

B. CFC
C. carbon dioxide
D. nitroous oxide
Answer: C
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<b>4.</b> Fill in the blanks: Nocturnal flowers like Nyctanthes attract insects by their
A. colour

C. scent	
D. edible sap	
Answer: C	
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5. Fill in the blanks: The example of start codon	
is	
A. UAA	

B. nectar

B. UGA

C. UAG

D. AUG

#### **Answer: D**



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**6.** 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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**7.** 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.



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

Carnivores are always primary consumers.



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

Yeasts generally reproduce asexually by fission.



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

Nutritive tissue of a fertilized egg in angiosperms is embryo.



11. Write notes with 2 to 3 important points : t-

RNA



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**12.** Write notes with 2 to 3 important points :

**Ecological pyramid** 



13. Write notes with 2 to 3 important points :

Population density attributes



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**14.** Write notes with 2 to 3 important points :

Sporulation



**15.** Write notes with 2 to 3 important points : Outbreeding devices



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**16.** Write notes with 2 to 3 important points :

Single cell protein



**17.** Differentiate between the following with 2 to 3 important points: Habitat and Niche



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



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



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



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



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**22.** Describe the process of DNA replication.



**23.** Describe the structure of DNA studied by Watson and Crick.

