



# BIOLOGY

## BOOKS - UNITED BOOK HOUSE

### 2020 QUESTION PAPER

#### Exercise

1. Which one of following do not have external fertilization?

A. Algae

B. Amphibians

C. Fishes

D. Mammals

**Answer:**



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2. Which one of the following helps in production of milk?

A. Oxytyocin

B. ADH

C. Prolactin

D. Glucagon

**Answer:**



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**3.** Which one of the following organisms reproduces by conidia?

A. Chlamydomonas

B. Spirogyra

C. Penicillium

D. None of these.

**Answer:**



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4. Which one of the following is called Kornberg's enzyme?

A. DNA polymerase- II

B. DNA ligase

C. RNA polymerase

D. DNA 'polymerase-I.

**Answer:**



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**5. An example of sex-linked inherited disease**

**is-**

A. Sickle cell anaemia

B. Haemophilia

C. Albinism

D. Phenylketoneuria.

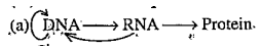
**Answer:**



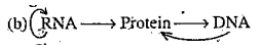
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**6.** The correct sequence of central dogma is -

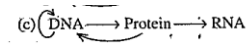
A.



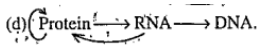
B.



C.



D.



**Answer:**



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7. Who proved for the first time that the origin of life was not spontaneous?

A. Haldane

B. Urey and Miller

C. Pasteur

D. Oparin

**Answer:**



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8. Which one of the following is known as maternal antibody? (A) IgD (B) IgE (C) IgG (D)

None of these

A. Ig D

B. Ig E

C. Ig G

D. None of these.

**Answer:**



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9. Which one of the following dairy breeds is Indian? (A) Ayrshire (B) Jersey (C) Holstein (D) Ongole

A. Ayrshire

B. Jersey

C. Holstein

D. Ongole.

**Answer:**



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10. Which one of the following bacteria is used in the production of transgenic plant? (A) Escherichia (B) Azotobacter (C) Agrobacterium (D) Salmonella

A. Escherichia

B. Azotobacter

C. Agrobacterium

D. Salmonella

**Answer:**



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11. Which one of the following enzymes is required in PCR?

A. RNA polymerase

B. Ribonuclease

C. Taq polymerase

D. Endonuclease

**Answer:**



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12. Zooplankton is

- A. Primary consumer,
- B. Secondary consumer
- C. Tertiary consumer
- D. None of these.

**Answer:**



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**13.** Which one of the following is not related to in situ conservation?

A. Sanctuary

B. Seed Bank

C. National Park

D. Biosphere reserve.

**Answer:**



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**14.** Amrita Devi (Beniwal) was involved in which movement?

- A. Chipko Movement
- B. Silent Valley Movement
- C. Bishnoi Movement.
- D. None of these.

**Answer:**



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**15. Define Oogamy?**



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**16. What do you mean by multiple fission?**



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**17. What do you mean by linked genes?**



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**18.** Give the scientific name of any one microbe used in pharmaceutical industry.



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**19.** Define Population.



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**20.** Mention any one adaptive feature of halophyte.



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21. Mention any two advantages of cross pollination.



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22. What is nucleosome?



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**23.** State how sex is determined in honeybees.



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**24.** Mention the composition of 'honey'.



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**25.** What do you mean by major carp? Give one example.



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**26.** What do you mean by molecular scissors?

What is DNA ligase?



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**27.** Mention any two measures for Radioactive

Waste Management.



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**28.** What is Ozone hole?



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**29.** Briefly describe the development of male gametophyte in Angiosperm.



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**30.** What is Medical Termination of Pregnancy (MTP)? State the significance of Amniocentesis.



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**31.** Distinguish between multiple allelism and Pleiotropy with exmple.



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**32.** Briefly describe the composition of Lac operon.



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**33.** Describe the experiments on Bacterial Transformation by Griffith to prove that DNA is the genetic material.



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**34.** What is biofertilizer? Mention the process of use of any two bacteria as Biofertilizer.



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**35.** What is micropropagation? Mention the advantages of micropropagation in short.



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**36.** Mention the symptoms of Filariasis. What is microfilariae?



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**37.** Mention two differences between humoral and cell mediated immunity. Give an example of tranquilizer drug.



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**38.** What is Genetically Modified Organisms (GMO)? Mention in brief the necessary steps for the production of Bt crops.



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**39.** What is gene therapy? State the significance of human insulin.



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**40.** Mention briefly the factors of energy flow in ecosystem. Give an example of detritus food chain.



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**41.** Describe briefly the process of double fertilization in Angiosperm with diagram.  
define parthenocarpy.



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**42.** Mention the changes in human uterus during different phases of menstrual cycle in a tabular form. What is capacitation?



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**43.** Describe in brief the initiation phase of translation process. What is trisomy?



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**44.** State the significance of Global Warming. Describe briefly the ill effects of water pollution in human body.



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**45.** Describe the reasons for extinction of biodiversity. What do you mean by biodiversity Hot spot? Give example.



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