



# BIOLOGY

## BOOKS - UNITED BOOK HOUSE

### 2016 QUESTION PAPER

#### Exercise

1. Corpus luteum secretes

A. LH

B. FSH

C. Estrogen

D. Progesterone

**Answer:**



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2. The genes responsible for haemophilia is

A. recessive and present in Y chromosome.

B. dominant and present in X chromosome

C. dominant and present in Y chromosome.

D. recessive and present in X chromosome.

**Answer:**



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**3.** Charging or amino acylation of t-RNA is related to which of the following processes?

A. DNA replication

B. Transcription

C. Translation

D. Lac-operon.

**Answer:**



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4. Which one of the following is the result of alcohol abuse?

A. Liver cirrhosis

B. Hypoglycemia

C. Gastritis

D. All of these

**Answer:**



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5. In the process of plant ecological succession, the final stage is

A. seral stage

B. ecesis

C. climax community

D. competition.

**Answer:**



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**6.** In the naming of pBR-322, 'p' stands for

A. plasma

B. protein

C. plasmid

D. polysac-charide

**Answer:**



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7. According to Lindeman's law, the amount of transferred energy from one trophic level to the next is

A. 0.1

B. 0.9

C. 0.8

D. 0.2

**Answer:**



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**8.** The process of formation of gametophyte directly from sporophyte without meiosis is called

A. Apogamy



B. Apospory

C. Parthenocarpy

D. Parthenogenesis.

**Answer:**



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9. Which one of the following is a barrier method of contraception?

A. Spermicidal jelly

B. IUCD

C. Diaphragm

D. Contraceptive pill.

**Answer:**



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**10.** Trisomy of chromosome No. 21 in humans creates a disease syndrome which is

A. Klinefelter's syndrome

B. Down's syndrome

C. Turner's syndrome

D. AIDS

**Answer:**



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**11.** Exception to mendelian principle is/are

A. co-dominance

B. linkage

C. incomplete dominance

D. All of these

**Answer:**



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**12.** Which of the following scientists proposed the concept of Ecological Food pyramid?

A. Blackman

B. odum

C. Elton

D. Tansley

**Answer:**



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**13.** Which one of the following is an important breed of fowl?

A. nageswari

B. Jersey

C. Rhode Island Red

D. Khaki Campbell

**Answer:**



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**14.** Name the organism responsible for Filaria disease.



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**15.** What do you mean by Linked gene?



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**16.** From where H.C.G. is secreted?



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**17.** What is chalazogamy?



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**18.** What is Polyembryony? Give an example.



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**19.** What is fallopian tube? Write its function.



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**20.** What is Incomplete dominance? Give an example.



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21. What do you mean by cloning vector?



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22. What do you mean by Ringworm disease?



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23. What leads to cancer?



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**24.** What is meant by Silent valley Movement?



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**25.** Dsitinguish between birth rate and death rate.



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**26.** Distinguish between allogamy and xenogamy. Give an example of artificial vegetative reproduction.



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**27.** Mention any three properties of Genetic code.



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**28.** What do you mean by semi-conservative replication? Mention the following in DNA replication : RNA-Primer



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**29.** What do you mean by semi-conservative replication? Mention the following in DNA replication : RNA-Primer



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**30.** What do you mean by mutation, natural selection and reproductive isolation?



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**31.** State about the structure of DNA.



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**32.** What are the components of honey? Name any one disease of honey-bee and mention

itsw cause.



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**33.** What are objectives of animal breeding?

What do you mean by artificial insemination?



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**34.** Mention any three importances of Tissue culture.



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**35.** What do you mean by single cell protein?

Give example. What is Bio-fortification?



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**36.** Describe in brief, how human inaulin, is produced by genetic Engineering.



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**37.** What do you mean by Bio-piracy? What is patent?



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**38.** What is c-DNA? Mention the significance of it in biotechnology.



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**39.** Write a short note on desert adaptations of animals.



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**40.** Write a short note on adaptations of Xerophytes.



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**41.** Describe in brief, with labelled diagram, the histological structure of human testis. What do you mean by spermatogenesis?



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**42.** Describe with labelled diagram the development of male gametophyte of flowering plants. What is the significance of seed?



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**43.** With the help of Griffith's experiment, explain the DNA is the genetic material. What is the significance of DNA fingerprinting?



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**44.** What is ozone hole? What are the causes of formation of ozone hole? Distinguish between autecology and synecology.



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**45.** Distinguish between Genetic and species diversity. Describe the causes of loss of biodiversity.



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