



## **BIOLOGY**

# **BOOKS - UNITED BOOK HOUSE**

# **2016 QUESTION PAPER**



## 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:**



**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:



## 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:**



**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. Klinetelter'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:



## 12. Which of the following scientists proposed

the concept of Ecological Food pyramid?

A. Blackman

B. odum

C. Elton

D. Tansley

#### Answer:



## 13. Which one of the following is an important

breed of fowl?

A. nageswari

B. Jersey

C. Rhode Island Red

D. Khaki Campbell

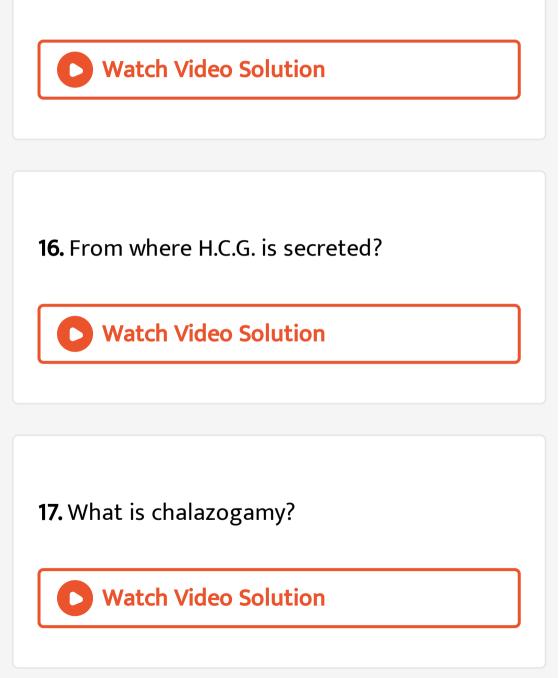
#### Answer:

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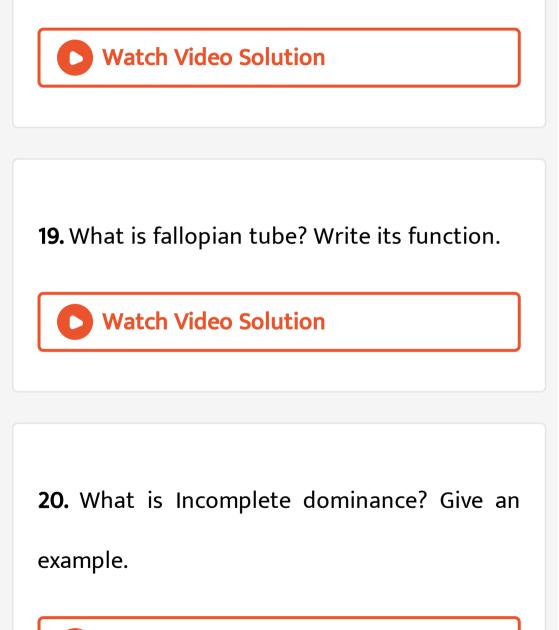
14. Name the organism responsible for Filaria

disease.

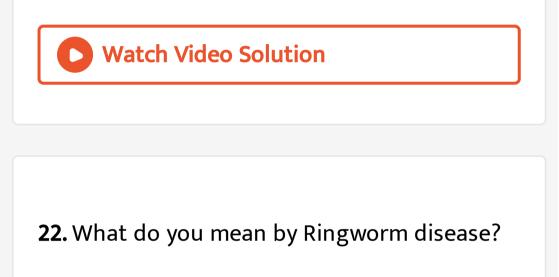
**15.** What do you mean by Linked gene?



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



## **21.** What do you mean by cloning vector?



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23. What leads to cancer?

24. What is meant by Silent valley Movement?

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## 25. Dsitinguish between birth rate and death

rate.



**26.** Distinguish between allogamy and xenogamy. Give an example of artifical vegatative reproduction.



## 27. Mention any three properties of Genetic

code.

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



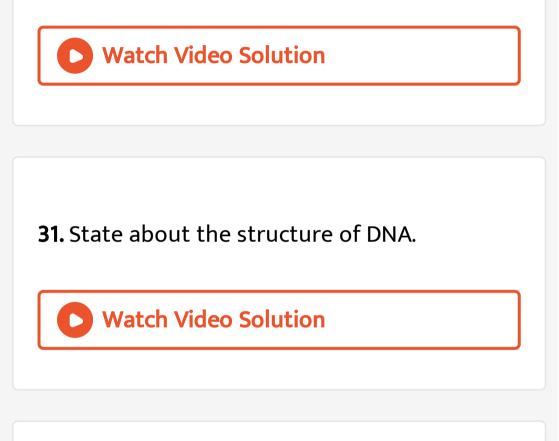
**29.** What do you mean by semi-conservative

replication? Mention the following in DNA

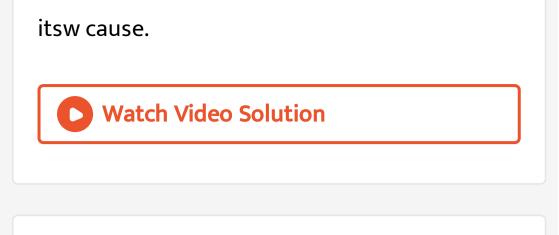
replication : RNA-Primer

30. What do you mean by mutation, natural

selection and reproductive isolation?



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



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

What do you mean by artifical insemination?

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34. Mention any three importances of Tissue

culture.



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

Give example. What is Bio-fortification?



## 36. Describe in brief, how human inaulin, is

produced by genetic Engineering.

**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.



**39.** Write a short note on desert adaptions of animals. **Watch Video Solution** 

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



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



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



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



44. What is ozone hole? What are the causes

of fomration of ozone hole? Distinguish

between autecology and synecology.

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