

## **BIOLOGY**

# BOOKS - USHA BIOLOGY (ODIA ENGLISH)

# **QUESTION PAPER 2018**

**Previous Year Question** 

1. Choose the correct option

The process by which scion is inserted

successfully into the stock to form a new plant								
is called								
A. layering								
B. cutting								
C. grafting								
D. budding								
Answer: C								
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**2.** In ....., pollen tube enters through micropyle into the ovule.

A. porogamy

B. chalazogamy

C. mesogamy

D. herkogamy

#### **Answer: A**



3. If allele for tallness ( TT ) is dominant and dwarfness ( tt ) is recessive , then in cross between  $\_$  50 % of the offsprings will be dwarf .

A.

В.

C.

D.

#### **Answer: B**



**4.** In secondary treatment of sewage in open bioreactors , the microorganisms grow and multiply to form \_\_\_\_\_

A. manure

B. compost

C. sludge

D. sediment

#### **Answer: C**



**5.** When propagating unit like seeds and spores enter a barren area to initiate the process of succession, it is called:

A. nudation

B. reaction

C. ecesis

D. migration

**Answer: D** 



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

**Food Chain** 



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7. Write notes with 2 to 3 important points :

Codominance



**8.** Write notes with 2 to 3 important points : Biofortification



9. Write notes: Alcoholic beverages



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

Biodiversity hot spots



**11.** Write notes with 2 to 3 important points : Lac Operon concept



**12.** Diatinguish between: Genetic diversity and species diversity



**13.** Differentiate between the following with 2 to 3 important points: Explant and Callus



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**14.** Differentiate between nuclear endosperm and cellular endosperm



**15.** Give an account of development of female gametophyte in angiosperms.



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**16.** Describe initiation step of translation in prokaryotes.



**17.** Answer within 200 words : Give an account of secondary air pollutants .



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**18.** Discuss Mendel's dihybrid cross with checker board.



19.	Which	spices	honeybees	is	commercially
cul	tivated?	•			

- A. Apis florea
- B. Apis dorsata
- C. Apis mellifera
- D. Apis indica

#### **Answer:**



20.	Human	embryo	is	protected	by	which
cavi	ty?					

- A. Pleural cavity
- B. Amniotic cavity
- C. Peritoneal cavity
- D. neural cavity

### Answer:



- A. Sahiwal
- B. Jersey
- C. Gir
- D. Red Sindhi

#### **Answer:**



**22.** Fill in the blanks with the correct answer(s): Genetically engineered rice rich in vitamin A is known as .



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**23.** Fill in the blanks with the correct answer(s):The infective stage of malarial parasite is\_\_\_.



**24.** Fill in the blanks with the correct answer(s): The transgenic mouse is called as .



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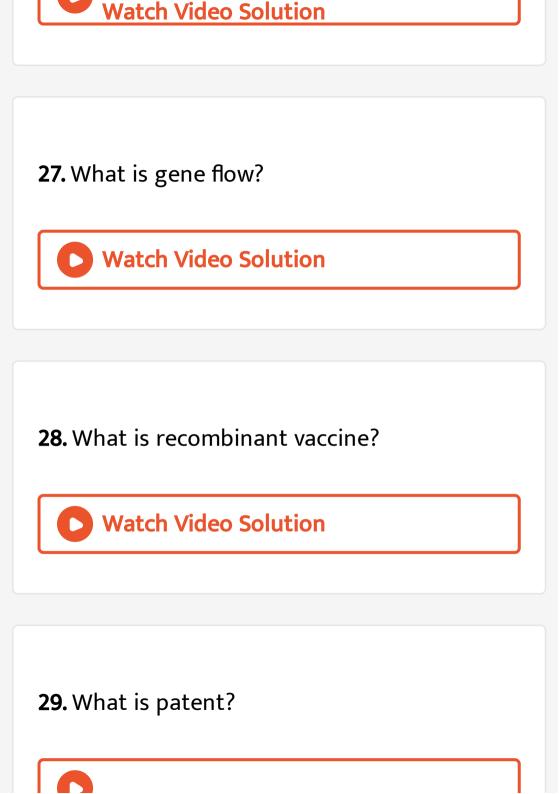
25. Write notes on: Innate immunity



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**26.** What is Hardy -Weinberg principle?







30. What are gestation and parturition?



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31. Differentiate between: Corpus luteum and corpus albicans.



32. Differentiate between: Broilers and layers



**33.** Differentiate between : Ex Vivo gene therapy and in Vivo gene therapy.



**34.** Give an account of the human female reproductive system,



**35.** Discuss theory of natural selection proposed by darwin.



**36.** Describe the chromosomal basic of sex determination in human, honey bee and birds.



**37.** Write a note on seminiferous tubules.



**38.** What is Down's syndrome?



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39. Write notes on: Thalassemia.



**40.** Write notes on : Genetically modified organism.

