



BIOLOGY

BOOKS - MODERN PUBLICATION

SAMPLE PAPER 2016



1. During conduction of nerve impulse, what

causes repolarisation of nerves ?

A. Efflux of potassium ions

B. Influx of both sodium and potassium

ions

C. Influx of sodium ions

D. Efflux of sodium ions

Answer: A

2. Which one of the following is not included

under in-situ conservation ?

A. Zoological Garden

B. Biosphere reserve

C. National Parks

D. Wildlife Sanctuary

Answer: A

3. During which stage of oogenesis the number of chromosomes is reduced to half?

A. Meiosis-I

B. Division of secondary oocyte

C. Formation of first polar body

D. Formation of second polar body

Answer: C

4. In which type of chromosomal aberration a submetacentric chromosome may be converted to a metacentric chromosome ?

A. Paracentric Inversion

Β.

C. Deletion

D. Duplication

Answer: B

5. Choose the correct answer from the choices

given under each bit.

Which antibody intitates allergic reactions ?



6. The yellow coloured milk secreted by mother

just after childbirth is called <u>neonatal milk</u>.



7. Increased algal bloom in pond and lake due to excess of nutrients is a phenomenon called biological magnification.



8. Fill in the blanks with correct answer(s)/correct the underlined portion of the sentence :
FSH and LH are selected by _____ endocrine gland.

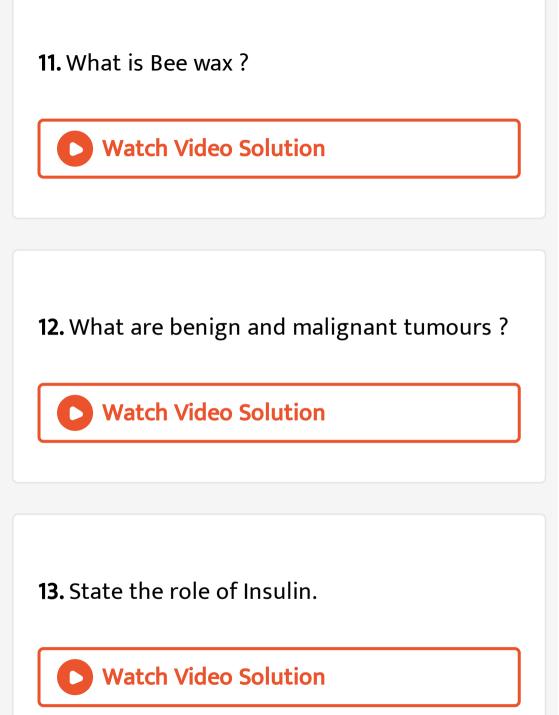




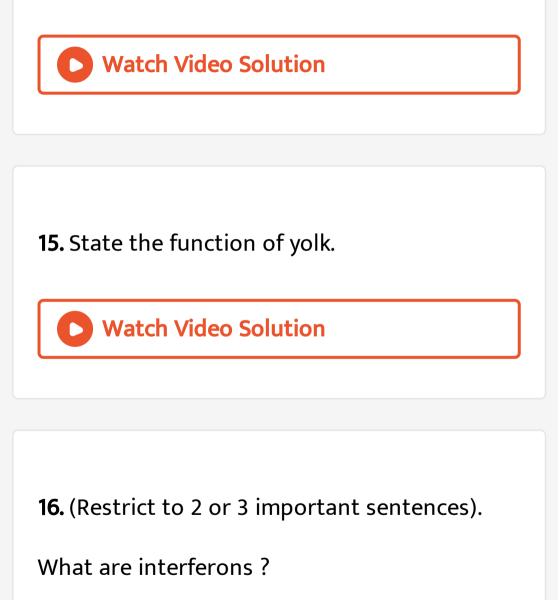
9. Fill in the blanks with correct answer(s)/correct the underlined portion of the sentence :
Urea is synthesized in the _____ of man.

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10. State the cause and symptoms of Filariasis.



14. What is Autonomic Nervous System?



17. Differentiate between :Renewable and non-

renewable resources.



18. Differentiate between : Herbicides and

Pesticides.

19. Differentiate between asexual reproduction

and sexual reproduction.

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20. Differentiate between : B-lymphocytes and

T-lymphocytes



21. What do you understand by Reflex Action ?



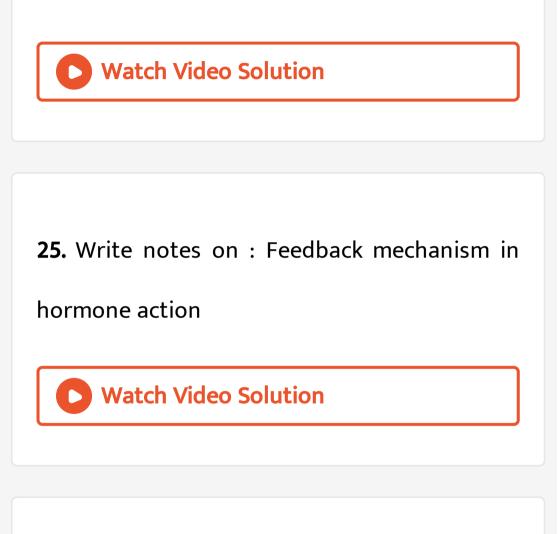
22. Give an account of the human male reproductive system.

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23. Explain the chromosomal basis of sex-

determination in animals.

24. Write notes on : Ozone depletion



26. Write notes on : Diencephalon

27. Write a note on barrier and surgical method of birth control.

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28. The process of physical removal of anthers

is called

A. emasculation

B. mass selection

C. Introduction

D. mutation

Answer:

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29. Fill in the blanks:Yeast Acetobacter are both involved in the production of ______ from carbohydrate.

A. pencillin

B. citrate

C. methane

D. vinegar

Answer:



30. The hormone secreted from the aleurone

layer of maize seed during germination is

A. Florigen

- B. Gibberellic acid
- C. Ethylene
- D. Abscisic acid

Answer:

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31. If a cell is placed in__ solution, then solvent

enters into the cell by endosmosis

A. Hypertonic

B. Isotonic

C. Hypotonic

D. Isothermic

Answer:

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32. Primary consumers are always

A. Producers

B. Carnivores

C. herbivores

D. omnivores

Answer:



33. In a cross between red and white flowered

plants , F_1 - hybrids are pink. This is called

quantitative dominance

34. Correct the statemetns of each bit, if necessary, by changing the underlined word(s) only :

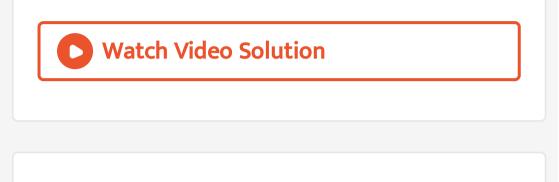
Ginger plant is an example of whole plant senescene.

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35. Correct the statements of each bit, if necessary, by changing the bracketed word(s) only :

During cellular respiration, (glycolysis) takes

place in mitochondria.



36. The pioneer community in hydrosere is

submerged plants.

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37. Write notes with 2 to 3 important points

Bacillus thuringiensis



with 2 to 3 important points:

Thigmonasty



39. Write notes any four of the following each

with 2 to 3 important points:

Seed dormancy





with 2 to 3 important points:

Oxidative decarboxylation

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41. Write notes any four of the following each

with 2 to 3 important points:

SymBOTtic Nitrogen fixation

with 2 to 3 important points:

Respiratory quotient

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43. Write notes any four of the following each

with 2 to 3 important points:

Adaptation to submerged hydrophytes

with 2 to 3 important points:

Central dogma

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45. Differentiate between any of two pairs of the following, each write with 2 to 3 important points:

Apoplast and Symplast





46. Differentiate between any of two pairs of the following, each write with 2 to 3 important points:

Vernalization and Photoperiodism

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47. Differentiate between any of two pairs of the following, each write with 2 to 3 important

points:

Diffusion and Imbibition

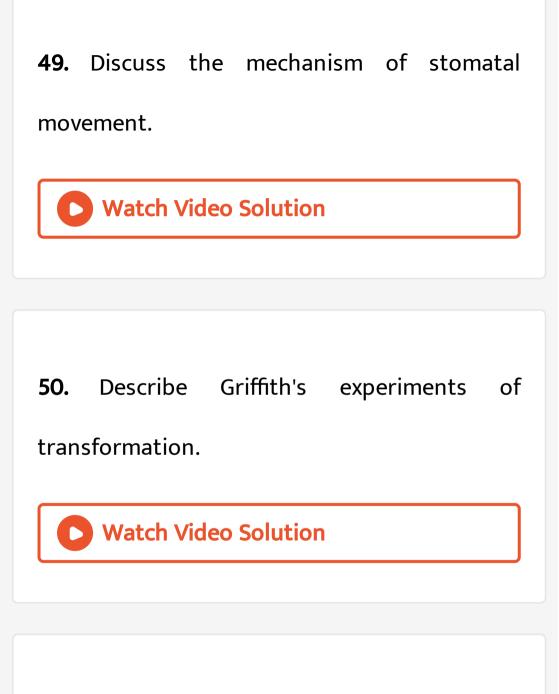


48. Differentiate between any of two pairs of

the following, each write with 2 to 3 important

points:

Monohybrid cross and Dihybrid cross



51. Give an account of C_3 cycle.

