BIOLOGY

BOOKS - MODERN PUBLICATION

SAMPLE PAPER 2016

Exercise

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

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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

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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

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

A. Paracentric Inversion

B.

C. Deletion

D. Duplication

Answer: B

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5. Choose the correct answer from the choices given under each bit.

Which antibody intitates allergic reactions ?

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6. The yellow coloured milk secreted by mother just after childbirth is called neonatal milk.

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

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8. Fill in the blanks with correct answer(s)/correct the underlined portion of the sentence :

FSH and LH are selected by _____ endocrine gland.

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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.

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11. What is Bee wax ?

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12. What are benign and malignant tumours ?

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13. State the role of Insulin.

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14. What is Autonomic Nervous System ?

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15. State the function of yolk.

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16. (Restrict to 2 or 3 important sentences).

What are interferons ?

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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

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21. What do you understand by Reflex Action ?

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

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23. Explain the chromosomal basis of sex-determination in animals.

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24. Write notes on : Ozone depletion

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25. Write notes on : Feedback mechanism in hormone action

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26. Write notes on : Diencephalon

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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:

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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:

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33. In a cross between red and white flowered plants , F_1 - hybrids are pink. This is called $\underline{\text{quantitative}}$ dominance

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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.

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36. The pioneer community in hydrosere is submerged plants.

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37. Write notes with 2 to 3 important points

Bacillus thuringiensis

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38. Write notes any four of the following each with 2 to 3 important points:

Thigmonasty

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39. Write notes any four of the following each with 2 to 3 important points:

Seed dormancy

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40. Write notes any four of the following each 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

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42. Write notes any four of the following each 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

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44. Write notes any four of the following each 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

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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

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

Monohybrid cross and Dihybrid cross

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49. Discuss the mechanism of stomatal movement.

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50. Describe Griffith's experiments of transformation.

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51. Give an account of C_3 cycle.

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52. Describe recombinant DNA technology

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