

BIOLOGY

BOOKS - MODERN PUBLICATION

SAMPLE PAPER 2015

Exercise

1. Which function (s) is / (are) controlled by corpora quadrigemina?

B. Heart beat
C. Auditory reflex
D. Both vision and olfactory
Answer: A
Watch Video Solution
2. Which is not associated with vasopressin?
A. Diabetes insipidus

A. Both vision and auditory

- B. Diabtetes mellitus
- C. Tabular reabsoption
- D. Vaso constriction

Answer: B



Watch Video Solution

3. Which organ's outer covering is tunica albuginea?

A. Brain

- B. Kidney
- C. Ovary
- D. Testis

Answer: C::D



Watch Video Solution

4. Through which vector is wuchereria bancrofti transmitted ?

A. Tse tse fly

- B. Culex
- C. Aedes
- D. Anopheles

Answer: B



Watch Video Solution

5. Which chromosome-linked genes do cause the genetic metabolic Phenylketonuria (PKU)?

A. X-linked gene

- B. Y-linked gene
- C. Somatic recessive gene
- D. Somatic dominant gene

Answer: C



Watch Video Solution

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

L.S.D. is a natural____drug.



7. The genetic ratio in F-generation of Mendel's monohybrid cross is 9:3:3:1.



Watch Video Solution

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

The hormone____ stimulates the secretion of milk.



Watch Video Solution

9. Three primary germ layers are formed during $\underline{\mathrm{morula}}$ stage of embryonic development.



Watch Video Solution

10. How AIDS can be prevented?



11. How does asexual reproduction take place in sponges?



12. What are the sources of radioactive pollution?



13. Write the possible causes of fernale infertility in relation to ovulation.



Watch Video Solution

14. What are restriction enzymes? Mention their functions in recombinant DNA technology.



15. Write the symptoms of Down's syndrome.



16. What is biosphere reserve? Mention its zones.



17. What is fertilization? In man, where does it take place?



18. Differentiate between : Insulin and Glucagon



19. Differentiate between : Inversion and

Translocation



20. Differentiate between : Corpus callosum and corpus luteum.



Watch Video Solution

21. Differentiate between binary fission and multiple fission.



22. Explain the mechanism of conduction of impulses along nerve fibres.



Watch Video Solution

23. What is sex-linked inheritance?



Watch Video Solution

24. What is immunity? Give an account of cell-mediated immunity.



25. Write notes on :Law of independent assortment



Watch Video Solution

26. Write notes on : Oogenesis



27. Write notes: Social life of honeybees



Watch Video Solution

28. Write notes: Biomagnification



Watch Video Solution

29. Fill in the blanks:When two organisms live with mutual benefit, it is called _____.

- A. SymBOTsis
- B. Parasitism
- C. Autotrophism
- D. Saprophytism

Answer: B



Watch Video Solution

30. Fill in the blanks:To form a continuous DNA molecule, the enzyme _____ joins okazaki fragments.

- A. Primase
- B. Polymerase
- C. Helicase
- D. Ligase

Answer: A



Watch Video Solution

31. A free-living nitrogen-fixer is

A. Rhizobium

- B. Phosphobacteria
- C. Azotobacter
- D. Escherichia

Answer: A::B::C



Watch Video Solution

32. In coconut leaves, ____ type of senescence is seen.

A. Simultaneous

B. Sequential C. Whole plant D. Irregular **Answer: A Watch Video Solution 33.** In chlorophyll molecule, is a component. A. Magnesium

B. Iron

C. Sulphur

D. Manganese

Answer: A



Watch Video Solution

34. Correct the statements:

The first stable product of CO_2 fixation in C_3 plants is PEP.



35. In ethyl alcohol production, the unicellular fungus, Penicillium is used.



Watch Video Solution

36. Correct the statements of each bit, if necessary, by changing the underlined word only:

The movment of leaves of touch-me-not plant induced by touch is called thermonasty.



37. Correct the statements of each bit, if necessary, by changing the underlined word only:

The term 'gene' was coined by deVries in the year 1909.



38. Write note on

Red drop



39. Decomposers



Watch Video Solution

40. Write note on

Quantitative inheritance



41. Write note on

tRNA



Watch Video Solution

42. Write a short note on secondary treatment of sewage.



43. Write note on

Seed germination factors



Watch Video Solution

44. Write note on

Plasmolysis



45. Write note on

Transpiration - a necessary evil



Watch Video Solution

46. DISTINGUISH BETWEEN: Food chain and

food web



47. Differentiate between

Phototropism and geotropism



Watch Video Solution

48. Differentiate between

Hydrosere and Xeresere



49. Differentiate between

Diffusion and Imbibition



Watch Video Solution

50. Describe initiation step of translation in prokaryotes.



51. Discuss the cohesion-tension theory of ascent of sap.



Watch Video Solution

52. Describe the phyiological effects of auxin.



Watch Video Solution

53. Give an account of glycolysis.



