



BIOLOGY

BOOKS - SARAS PUBLICATION

MODEL QUESTION PAPER-7

Exercise

1. Identify the Archaeobacterium

A. Acetobacter

B. Erwinia

C. Treponema

D. Methanobacterium

Answer:



Watch Video Solution

2. Specimen derived from non-original collection serves as the nomenclatural type, when original specimen is missing . It is known as.

A. Holotype

B. Neotype

C. Isotype

D. Paratype

Answer:



Watch Video Solution

3. Sucrose is a disaccharide. One molecule of sucrose on hydrolysis gives

A. 2 molecules of glucose

B. 2 molecules of glucose + 1 molecule of fructose

C. 1 molecule of glucose + 1 molecule of fructose

D. 2 molecules of fructose.

Answer:



Watch Video Solution

4. Heart wood is also known as _____

A. Sap wood

B. Duramen

C. Alburnum

D. Soft wood

Answer:



Watch Video Solution

5. Which of the following biological chelating agent?

A. Siderophores

B. EDTA

C. NPK fertilizer

D. All of these

Answer:



Watch Video Solution

6. Which of the following reaction is not involved in Krebs cycle.

A. Shifting of phosphate from 3C to 2C

B. Splitting of Fructose 1,6 bisphosphate
into two molecules 3C compounds

C. Dephosphorylation from the substrates

D. All of these

Answer:



Watch Video Solution

7. Conversion of leaf primordia into flower primordia under suitable inductive cycles is called.

- A. Photoperiodism
- B. Photoneutrals
- C. Intermediate plants
- D. Photoperiodic induction

Answer:



Watch Video Solution

8. Write the differences between Banyan and silk cotton



Watch Video Solution

9. Identify the term synandrous.



Watch Video Solution

10. Write any three significance of mitosis .



Watch Video Solution

11. Define flux.



Watch Video Solution

12. Write the formula of chlorophyll a,b & c.

Name one group of organism where each of them is present.



Watch Video Solution

13. What are enzymes involved in phosphorylation and dephosphorylation reaction in EMP pathway ?



Watch Video Solution

14. Distinguish between manoxylic and pycnoxylic wood.



Watch Video Solution

15. Give the floral characters of *Clitoria ternatea*.



Watch Video Solution

16. What is microscopic resolution?



Watch Video Solution

17. Distinguish between nitrogenous base and a base found in inorganic chemistry.



[Watch Video Solution](#)

18. In a forest, if the bark of a tree is damaged by the horn of a deer, How will the plant overcome the damage?



[Watch Video Solution](#)

19. What are the commonly used nutrient solutions?



[Watch Video Solution](#)

20. Briefly discuss on five kingdom classification. Add a note on merits and demerits.



Watch Video Solution

21. How are bacteria classified base on the number and position of flagella?



Watch Video Solution

22. Draw the ultra structure of plant cell.



[Watch Video Solution](#)

23. Write the role of nitrogenase enzyme in nitrogen fixation?



[Watch Video Solution](#)

24. Comment on restriction point.



[Watch Video Solution](#)

25. Define passage cells



[Watch Video Solution](#)

26. An artificial cell made of selectively permeable membrane is immersed in a beaker (in the figure). Read the values and answer the following questions.



[Watch Video Solution](#)

27. Explain the insectivorous mode of nutrition in angiosperms?



Watch Video Solution

28. Explain molecular structure of ATP?



Watch Video Solution

29. Exoskeleton of which phylum consists of chitinous cuticle?

A. Annelida

B. Arthropoda

C. Porifera

D. Echinodermata

Answer:



Watch Video Solution

30. Osteocytes are

A. Bone cells

B. Blood cells

C. Nerve cells

D. Lymph cells

Answer:



Watch Video Solution

31. The dental formula of human is

A. $2123 / 2123$

B. $2223 / 2223$

C. 2124 / 2124

D. 2122 / 2122

Answer:



Watch Video Solution

32. Which of the following favours the formation of oxyhaemoglobin?

A. High pO_2

B. Low pCO_2

C. Low temperature

D. All the above

Answer:



Watch Video Solution

33. The region where the diaphysis and epiphysis meet is called.....

A. Metaphysis

B. Epiphyseal plate

C. Sacrum

D. Articular cartilage

Answer:



Watch Video Solution

34. Which structure in ear converts pressure waves to action potentials ?

A. Tympanic membrane

B. Organ of Corti

C. Oval window

D. Semicircular canal

Answer:



Watch Video Solution

35. A pregnant female delivers a baby who suffers from stunted growth, mental retardation, low intelligence quotient, and abnormal skin. This is the result of

A. Low secretion of growth hormone

B. Cancer of the thyroid gland

C. Over secretion of pars distalis

D. Deficiency of iodine in diet.

Answer:



Watch Video Solution

36. Which is not a species of prawn?

A. *Penaeus indicus*

B. *Metapenaeus dobsoni*

C. *Macrobrachium rosenbergii*

D. *Cyprinus carpio*

Answer:



Watch Video Solution

37. What is the role of Charles Darwin in relation to concept of species?



Watch Video Solution

38. Describe the types of respiration seen in frog.



Watch Video Solution

39. What is called chordae tendinae?



Watch Video Solution

40. What is osmolarity and how is it expressed.



Watch Video Solution

41. What are enteric plexuses?



Watch Video Solution

42. Who is called the king of the bee colony?

Why is it called so?



Watch Video Solution

43. What are flame cells?



Watch Video Solution

44. List the unique features of bird's endoskeleton.



Watch Video Solution

45. Write short notes on Ehlers Danlos syndrome.



Watch Video Solution

46. What is wormery?



Watch Video Solution

47. Arrange the following in an order Gullet, pharynx, Oesophagus, Oral cavity



Watch Video Solution

48. What is papillae?



Watch Video Solution

49. Write short notes on Bronchitis



Watch Video Solution

50. What are called agglutinins?



Watch Video Solution

51. Write short notes on Erythropoietin.



Watch Video Solution

52. What is the drug used to treat high bp?



Watch Video Solution

53. Explain its action with a flow chart.



Watch Video Solution

54. Write short notes on pancreas



Watch Video Solution

55. List the role of enzymes in small intestine



Watch Video Solution

56. Discuss the various techniques adopted in cattle breeding.



Watch Video Solution

57. List the techniques involved in cattle breeding.



Watch Video Solution

58. Explain MOET.



Watch Video Solution