



BIOLOGY

BOOKS - SARAS PUBLICATION

MODEL QUESTION PAPER-5

Exercise

1. Identify the incorrect statement about the Gram positive bacteria

A. Teichoic acid absent

B. High percentage of peptidoglycan is found in cell wall

C. Cell wall is single layered

D. Lipopolysaccharide is present in cell wall

Answer:



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2. Synapsis occurs between

A. mRNA and ribosomes

B. Spindle fibres and centromeres

C. Two homologous chromosomes

D. A male and a female gamete

Answer:



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3. The perianth is the term used when

A. Androecium and gynoecium are similar

B. Calyx and corolla are similar

C. Androecium and calyx are similar

D. Gynoecium and corolla are similar

Answer:



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4. Select the correctly matched one

(A) Human urine - (i) Auxin-B

(B) Corn gram -(ii) GA_3

(C) Fungus - (iii) Abscisic acid II

(D) Herring fish sperm - (vi) Kinetin

(E) Unripe maize grains - (v) Auxin A

(F) Young cotton bolls - (vi) Zeatin

A. A-iii, B-iv, C-v, D-vi, E-i, F-ii,

B. A-v, B-i, C-ii, D-iv, E-vi, F-iii,

C. A-iii, B-v, C-vi, D-i, E-ii, F-iv

D. A-ii, B-iii, C-v, D-vi, E-iv, F-i

Answer:



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5. Smooth endoplasmic reticulum is the site of

- A. Protein synthesis
- B. Lipid synthesis
- C. Carbohydrate synthesis
- D. Amino acid synthesis

Answer:



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6. Identify the correct statement

(i) sulphur is essential for amino acids cystine and methionine

(ii) low level of N , K ,S and Mo affect the cell division

(iii) Non -leguminous plant Alnus which contain bacterium frankia

(iv) Denitrification carrird out by nitrosomonas and nitrobacter .

A. I, II are correct

B. I, II, III are correct

C. I only correct

D. All are correct

Answer:



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7. Bryophytes differ from pteridophytes in

A. Swimming antherozoids

B. An independent gametophyte

C. Archegonia

D. Lack of vascular tissue

Answer:



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8. is require for regeneration of lecithin

A. Acid

B. Base

C. Cholin

D. ATP

Answer:



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9. Write the differences between Avicennia and Trapa



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10. What is ICN?



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11. Why carotene pigments are called shield pigments?



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12. Explain the reactions taking place in mitochondrial inner membrane.



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13. Why the cells of sclerenchyma and tracheids become dead?



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14. What is rhytidome?



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15. Do you agree with the statement 'Bryophytes need water' for fertilization'?

Justify your answer.



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16. Give a general account on lichens.



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17. The nitrogen is present in the atmosphere in huge amount but plants fail to utilize it .
Why ?



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18. Define single cyme.



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19. Write the physiological effect of Auxin.



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20. What is giant chromosome?



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21. What are extracellular enzymes?



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22. Continuous state of dividing tissues called meristem. In connection to this, what is the role of lateral meristem?



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23. Distinguish between manoxylic and pycnoxylic wood.



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24. Write the differences between Banyan and silk cotton



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



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26. What is the need for transport?



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27. What do you know about the immediate emission of absorbed radiations?



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28. How will you calculate net products of one sucrose molecule upon complete oxidation during aerobic respiration as per recent view ?



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29. Give an account of G_0 phase.



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30. A transverse section of the trunk of a tree shows concentric rings which are known as growth rings . How are these rings formed ?
What are the significance of these rings ?



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31. What are cyanobacteria?

- A. All photosynthetic algae
- B. Photosynthetic blue green algae
- C. Photosynthetic Bacteria

D. Cyanide producing bacteria

Answer:



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32. What type of fibres are found in connective tissue matrix?

A. Collagen

B. Areolar

C. Cartilage

D. Tubular

Answer:



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33. Liver stores glucose in the form of

A. Pulp

B. Cellulose

C. Glycogen

D. Glucagon

Answer:



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34. The number of red blood cells in man per mm^{-3} blood

A. 5-5.5 millions

B. 2.5-3.5 millions

C. 1.5-2 millions

D. 4.5-5.0 millions

Answer:



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35. The bundle of muscles fibres is called

A. Myofibrils

B. Fascicle

C. Sarcomere

D. Sarcoplasm

Answer:



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36. Which of the given option shows all wrong statements for thyroid gland.

(i) It inhibits process of RBC formation

(ii) It helps in maintenance of water and electrolytes

(iii) Its more secretion can reduce blood pressure

(iv) It stimulates osteoblast

A. (i) and (ii)

B. (iii) and (iv)

C. (i) and (iv)

D. (i) and (iii)

Answer:



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37. Assertion: The best quality of pearl is known as lingha pearl and obtained from marine oysters.

Reason: Nacre is secreted continuously by the

epithelial layer of the mantle and deposited around the foreign particle.

- A. Assertion is true, Reason is false
- B. Assertion and Reason are false
- C. Assertion is false But Reason is true
- D. Assertion and Reason are true

Answer:



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38. It is considered as “The Rest and Digest system”.

A. Parasympathetic neural system

B. Sympathetic neural system

C. Autonomic neural system

D. Somatic neural system

Answer:



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39. What is Metagenesis?



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40. What is gonapophysis?



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41. How is urea formed in the human body?

(OR) We are not consuming urea. But in our body urea is produced. Why?



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42. What is maculae lutea?



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43. Write the role of oestrogen in ovulation



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44. Define species



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45. Define tautonym



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46. Write short notes on smooth muscles?



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47. Write short notes on Parkinson's disease.



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48. What are the three types of earth worms?



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49. Write notes on hiatus hernia.



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50. How do proteins differ from fats in their energy value and their role in the body ?



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51. Distinguish between mitral valve and semi lunar valey.



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52. What is lymph? Write its function.



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53. Explain the male reproductive system of frog.



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54. Explain Erythroblastosis foetalis



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55. Write notes on heart attack



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56. Write notes on heart failure



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57. Define:-

Myocardial infarction.



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58. Name the endocrine gland attached to the duodenum.



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59. Explain its structure with neat diagram.



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60. Write three roles of insulin.



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61. List the disorders of muscular system.



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62. Explain any three of it.



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