



BIOLOGY

BOOKS - SARAS PUBLICATION

MODEL PRACTICE QUESTION PAPER-1

Exercise

1. Which of the plant group has gametophyte as a dominant phase?

A. Pteridophytes

B. Bryophytes

C. Gymnosperm

D. Angiosperm

Answer:



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2. A true fruit is the one where

A. Only ovary of the flower develops into fruit

B. Ovary and calyx of the flower develops into fruit

C. Ovary, calyx and thalamus of the flower develops into fruit

D. All floral whorls of the flower develop into fruit

Answer:



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3. Flowers are zygomorphic in _____.

A. Cerropegia

B. Thevetia

C. Datura

D. Solanum

Answer:



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4. The sub units of prokaryotic ribosomes are

A. $40S + 60S$

B. $70S + 30S$

C. $60S + 30S$

D. $30S + 50S$

Answer:



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5. Experiment demonstrating translocation of solute by phloem is

A. Cobalt chloride

B. Ringing experiment

C. Potometer

D. Munch mass hypothesis

Answer:



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6. If a plant is provided with all mineral nutrients but, Mn concentration is increased, what will be the deficiency?

A. Mn prevent the uptake of Fe, Mg but not

Ca

B. Mn increase the uptake of Fe, Mg and Ca

C. Only increase the uptake of Ca

D. Prevent the uptake Fe, Mg, and Ca

Answer:



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7. Which chlorophyll molecule does not have a phytol tail?

A. Chl-a

B. Chl-b

C. Chl-c

D. Chl-d

Answer:



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8. Cytokinins are derivations of

A. Adenine

B. Guanine

C. Cytosine

D. Thiamine

Answer:



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9. What are cyanophages?



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10. How root climbers differ from stem climbers?



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11. Write about of basal placentation with an example.



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12. Write about MPF.



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13. What are the three types of RNA?



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14. What is leaf gap?



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15. Compare pinnate unicostate venation and palmate multicostate venation.



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16. Describe exocytosis.



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17. Describe diakinesis.



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18. A timber merchant bought 2 logs of wood from a forest & named A & B , The log A was 50 year old & B was 20 years old. Which log of wood will last longer for the merchant ? Why ?



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19. Write notes on Emerson's enhancement effect.



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20. Compare sympodial branching with monopodial branching.



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21. Explain Sclereides with their types?



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22. Label A,B,C,D,E in the dicot root. A-metaxylem , B-protoxylem, C-phloem, D-pericycle, E-endodermis.



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





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24. Write the diagnostic features of Fabaceae family.



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25. Explain lock and key mechanism.



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26. Explain the different types of fleshy fruit with suitable examples



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27. ATPase enzyme needed for muscle contraction is located in

A. Actinin

B. Troponin

C. Myosin

D. Actin

Answer:



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28. Match the column I with column II and choose the correct option.



A. A- 2, B- 3, C- 5, D- 4 E-1

B. A- 2, B- 5, C-3, D-4 E-1

C. A - 1, B-3, C-5, D-4 E -2

D. A - 1, B- 5, C-3, D-4 E -2

Answer:



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29. Which one of the following is not endemic species of earthworm?

(a) Perionyx

(a) Lampito

(c) Eudrillus

(c) Octochaetona

A. Perionyx

B. Lampito

C. Eudrilus

D. Octochaetona

Answer:



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30. In frog pyloric sphinter is located between

- A. Pharynx and Oesophagus
- B. Oesophagus and stomach
- C. Ileum and Rectum
- D. Stomach and Duodenum

Answer:



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31. Absorption of glycerol, fatty acids and monoglycerides takes place by

A. Lymph vessels within villi

B. Walls of stomach

C. Colon

D. Capillaries within villi

Answer:



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32. What is the minute respiratory volume of man?

A. 6 litres// minute

B. 9 litres//minute

C. 12 litres// minute

D.

Answer:



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33. Veins bring blood from various parts of body to

A. Kidney

B. Liver

C. Heart

D. Lungs

Answer:



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34. What is the normal urea level in human blood?

A. 40 - 50 mg // 100 ml

B. 17-30 mg//100ml

C. 2 - 5 mg// 100 ml

D. 70 - 80 mg //100 ml

Answer:



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35. What is the difference between a Zoa and wild life sanctuary?



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36. Define Biopsy



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37. Define the term chyme.



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38. What are called semilunar valves?



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39. Name the filaments present in the sarcomere.



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40. What is the function of oxytocin?



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41. What is bioluminescence?



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42. What is Cnidoblast?



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43. Write a short note on ootheca.



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44. How the body makes long-term adjustments when living in high altitude?



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45. Name the three filtration barriers that solutes must come across as they move from plasma to the lumen of Bowman's capsule.

What components of the blood are usually excluded by these layers?



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46. What are the components of the sericulture industry?



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47. What is moriculture?



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48. Name any four important functions of epithelial tissue and provide at least one example of a tissue that exemplifies each function.



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49. Differentiate White adipose tissue from Brown adipose tissue.



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50. Write about the caloric value of proteins



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51. Write notes on PEM



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52. List out the types of WBCs.



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53. Differentiate thick filaments and thin filaments.



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54. Name the different types of synovial joints?



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55. Comment on the function of adrenalin



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