



# BIOLOGY

## BOOKS - SARAS PUBLICATION

### MODEL QUESTION PAPER-10

#### Exercise

1. Bryophyllum and Dioscorea are example for

A. Foliar bud, apical bud

B. Foliar bud, cauline bud

C. Cauline bud, apical bud

D. Cauline bud, foliar bud

**Answer:**



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2. Arrange the following in correct order

A. Apple - i) drupe

B. Pea - ii) hesperidium

C. Orange -iii) Legume

D. Mango - iv) Pome

A. A-i, B-iii, C-iv, D-ii

B. A-iv, B-ii, C-i, D-iii

C. A-iv, B-iii, C-ii, D-i

D. A-ii, B-iii, C-i, D-iv

**Answer:**



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3. In pachytene stage of meiosis the chromosomes appear

- A. Single stranded
- B. Double stranded
- C. Three stranded
- D. Four stranded

**Answer:**



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4. Grafting is successful in dicots but not in monocots because the dicots have

A. Vascular bundles arranged in a ring

B. Cambium for secondary growth

C. Vessels with elements arranged end to end

D. Cork cambium

**Answer:**



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5. Consider the following statements.

Organization of vascular cambium

(i) The cells of vascular cambium do not fit into the usual description (ii) vascular cambium possesses Cells with large central vacuole surrounded by a thin, layers of dense cytoplasm (iii) The vascular cambium is the presence of three kinds of initials.

A. (i) is correct but (ii) and (iii) are not correct

B. (i) and (ii) are correct but (iii) is not correct

C. (i) and (ii) are not correct but (iii) is correct

D. (i) is not correct but (ii) and (iii) are correct

**Answer:**



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6. Identify true statement regarding light reaction of photosynthesis

A. Splitting of water molecule is associate with PS I.

B. PS I and PS II involved in the formation of  $NADPH + H^+$ .

C. The reaction center of PS I is Chlorophyll a with absorption peak at 680 nm.



D. The reaction center of PS II is Chlorophyll

a with absorption peak at 700 nm

**Answer:**



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7. Assertion (A) : Oxidative phosphorylation takes place during the electron transport chain in mitochondria.

Reason (R ) : Succinyl CoA is phosphorylated

into succinic acid by substrate phosphorylation.

A. A and R are correct. R is correct explanation of A

B. A and R are correct but R is not the correct explanation of A

C. A is correct but R is wrong

D. A and R are wrong.

**Answer:**



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8. This is an anti auxin compound

A. 2, 4-D

B. TIBA

C. PAA

D. IBA

**Answer:**



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9. How root climbers differ from stem climbers?



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10. Describe superficial placentation



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11. Name the green manure plants of fabaceae.



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**12.** Draw a diagram to show position of different types of meristems.



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**13.** State the Munch Mass flow hypothesis.



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**14.** The nitrogen is present in the atmosphere in huge amount but plants fail to utilize it .

Why ?



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**15.** Differentiate between vegetative morphology & reproductive morphology.



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**16.** State Rudolf Virchow's cell theory.



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**17.** Write about pachytene of prophase I.



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**18.** Explain sclereids with their types.



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**19.** What are the parameters which control water potential ?



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20. Name the common in nitro hydrogen acceptors.



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



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22. Write notes on phycobilins.



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23. Describe Went experiment Avena Curvature Test.



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24. Write the names of soft fibres.



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**25.** Differentiate between aggregate fruit with multiple fruit.



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**26.** Explain the structure and function of tRNA?



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**27.** Do mushroom cells have cell wall?



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**28.** 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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29. Match the following columns and select the correct option.

Column - I		Column - II	
(p)	Pila	(i)	Devil fish
(q)	Dentalium	(ii)	Chiton
(r)	Chaetopleura	(iii)	Apple snail
(s)	Octopus	(iv)	Tusk shell

A. p - (ii), q-(i), r - (iii), s - (iv)

B. p-(iii), q - (iv), r - (ii), s - (i)

C. p - (ii), q - (iv), r - (i), s - (iii)

D. p - (i), q - (ii), r - (iii), s - (iv)

**Answer:**



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**30.** The tissue present in the lining of kidney tubules ducts and secretory portions of glands.

A. Squamous epithelium

B. Glandular epithelium

C. Cuboidal epithelium

D. Columnar epithelium

**Answer:**





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**31. Buccopharyngeal respiration in frog:**

- A. Is increased when nostrils are closed
- B. Stops when there is pulmonary respiration
- C. Is increased when it is catching fly
- D. Stops when mouth is opened.

**Answer:**



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32. Where does our buccal cavity open?

A. Oesophagus

B. Salivary gland

C. Pharynx

D. Stomach

**Answer:**



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**33.** Which of the following substances in tobacco smoke damage the gas exchange system?

- A. Carbon monoxide and carcinogens
- B. Carbon monoxide and nicotine
- C. Carcinogens and tar
- D. Nicotine and tar

**Answer:**



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**34.** Match the term given under column 'A' with their functions given under column B and select the answer from the options given below.

<b>Column I</b>	<b>Column II</b>
A. Lymphatic system	(i) Carries oxygenated blood
B. Pulmonary vein	(ii) Immune response
C. Thrombocytes	(iii) To drain back the tissue fluid to the circulatory system
D. Lymphocytes	(iv) Coagulation of blood

A. A-ii, B-i, C-iii, D-iv

B. A-iii, B-i, C-iv, D-ii

C. A-iii, B-i,C-iii, D-iv

D. A-ii, B-i, C-iii, D-iv

**Answer:**



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**35.** Kidney stones are produced due to deposition of uric acid and

A. Silicates

B. Minerals

C. Calcium carbonate

D. Calcium oxalate

**Answer:**



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**36.** Assertion (A): Osteoporosis occurs due to deficiency of vitamin D and hormonal imbalance

Reason (R): Osteoporosis causes rickets in children and osteomalacia in adult females.

A. (R) is correct but (A) is wrong.

B. (A) is correct but (R) is wrong.

C. (A) is correct but (R) explains (A)

D. Both (A) and (R) are correct

**Answer:**



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**37. What is PCR?**



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**38.** Head of cockroach is called Hypognathous.

Why ?



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**39.** What is Expiratory Capacity (EC)?



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**40.** Give the formula for net filtration pressure.



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**41.** Sam's optometrist tells him that his intraocular pressure is high. What is this condition called and which fluid does it involve ?

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**42.** What is meant by animal husbandary?

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**43.** What is sexual dimorphism?



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**44.** What is statocyst?



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**45.** Write short notes on intestinal caecae.



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**46.** Write short notes on emphysema



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**47.** What are the different types of permanent teeth?



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**48.** How are nephrons classified based on the length of Henle's loop?





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**49.** Write notes on fibrous joints.



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**50.** Can you state why some areas of the brain and spinal cord are gray and some are white?



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**51.** Name some molecular techniques used for taxonomical classification.



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**52.** Write notes on triploblastic animals.



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**53.** Draw a neat diagram of digestive system of frog.



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**54.** What are the functions of liver ?



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**55.** Write a short note on mechanism of hearing.



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**56.** Write short notes on lymphocytes.



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**57.** Give the economic importance of lac insect.



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**58.** Differentiate swarming in honey bee and lac insect.



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