



# BIOLOGY

## BOOKS - MBD

### Model test paper 2

#### Exercise

1. Name one non-symbiotic nitrogen fixing prokaryote.



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2. Describe briefly: Geometric growth



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3. Mannitol is the reserve food material of which group of algae.



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4. What is the functions of a polysome?



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5. What are gas vacuoles? State their functions?



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6. What is the centrosphere?



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7. What is the feature of a metacentric chromosome?



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8. Find out what do the terms 'algal bloom' and 'red-tides' signify.



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**9. Differentiate : Oviparous and viviparous animals.**



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**10. Differentiate cardiac muscles and striated muscle.**



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**11. Give example of modifications of leaf.**



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**12.** Sketch the structural formula of ATP.



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**13.** Write a note on peroxisome.



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**14.** How are vascular plants able to dominate the planet?



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**15.** Discuss any four characteristics of mastigophora.



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**16.** What is the difference between nucleus and nucleolus?



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**17.** Differentiate guttation and transpiration.



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**18.** Briefly describe atherosclerosis and hypertension.





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**19.** Explain physiology of kidney.



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**20.** What is amphibolic pathway?



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**21.** Sketch neuromuscular junction.



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**22.** List six distinguished characters of phylum Annelida.



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**23.** Draw T.S. of monocot root.



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**24.** Describe the arrangement of floral members in relations to their insertion on thalamus.



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**25.** Explain the concept of activation energy.



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**26.** Mention any three kinds of bonds linking monomers in a polymer.



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**27.** Write role of ADH and Oxytocin in urine formation.



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**28.** Describe hepatic portal system.



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29. In your neighbourhood a person was appearing weak. His family members asked you the possible reason. You advised him to consult doctor which appear to be some metabolic disorder.

Mention any two metabolic disorders.



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**30.** In your neighbourhood a person was appearing weak. His family members asked you the possible reason. You advised him to consult doctor which appear to be some metabolic disorder.

Name the hormones the deficiency of which has caused these disorders.



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**31.** Explain meiosis I with the help of diagram only.



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**32.** Write the location and function of following:

Sucrose



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**33.** Write the location and function of following:

Glycogen



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**34.** Write the location and function of following:

Phospholipid



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**35.** Write the location and function of following:

Ribose



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**36.** Write the location and function of following:

Mucopolysaccharide.



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**37. Differentiate :**

Aerobic respiration and anaerobic respiration



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**38. Differentiate :**

Phytochrome and florigen.



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**39. Explain the factors (external) which affect rate of photosynthesis.**



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**40.** Discuss conduction of nerve impulse at synapse.



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**41.** Describe cardiac cycle.



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