



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

SUPER MODEL QUESTION PAPERS

Super Model Question Paper 1 Part A

1. What is a Botanical garden ? Give examples.



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2. What are Heterocysts ?



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3. Name the chemical present in the cell wall of a diatom.



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4. What is a phylloclade?



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5. What is ligament?



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6. What is bolting ?



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7. Define imbibition.



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8. Name any two hormones produced in the Gastro-Intestinal tract.



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9. Name the chemical present in secondary cellwall?



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10. What is adelphy?



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11. What is a transamination reaction? What is its significance?



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12. What are nephridia? Mention the types of nephridia in earthworm?



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13. What are Ammonotelic animals? Give an example?



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14. With reference to growth, define the following term:

Differentiation.



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15. With reference to growth, define the following term:

Deffferentiation.



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16. What are the characteristic features of Euglenoids ?



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17. How are viroids different from viruses ?



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18. Name the cells of cartilage and bone.



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19. Explain the digestion of Carbohydrates in the human Small Intestine.



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20. Write the schematic representation of a Nitrogen cycle.



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21. What is meristem? Write any two kinds of meristems.



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22. Write any two living and non - living characters of virus.



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23. What is vernalisation? How is the process of vernalisation advantageous to plants?



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24. What is growth rate? Write the mathematical expression of arithmetic growth rates?



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25. Mention the role of any five macronutrients in plants.



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26. Explain the mechanism of breathing.



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Super Model Question Paper 1 Part B

1. Write any two differences between mitosis and meiosis.



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Super Model Question Paper 1 Part C

1. What is aestivation? Mention any four types with one example for each.



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Super Model Question Paper 1 Part D Section I

1. With schematic representation, explain the diplontic life cycle.



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2. Write the General characters of phylum Exhinodermata?



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3. Describe the major types of simple epithelial tissue, with the help of a labelled diagram ?



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4. Describe the structure of chloroplast with a neatly labelled diagram?



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5. Draw a neatly labelled diagram of nephron.



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6. Discuss the role of pancreatic hormones in regulation of blood glucose level.



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Super Model Question Paper 1 Part D Section Ii

1. With a neat labelled diagram, explain phloem tissue.



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2. List the physiological effects of Auxins on plants.



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3. Describe the various stages of prophase I of meiosis I.



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4. Draw a neat labelled diagram of digestive system of cockroach.



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Super Model Question Paper 2 Part A

1. What is monograph ?



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2. What are viroids?



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3. Define species.





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4. Define the Phyllotaxy



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5. Name the chemical matrix of bone?



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6. Name the main component of the secondary cell wall?



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7. Define imbibition.



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8. Name the hormone responsible for fruit ripening?



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9. What is Gout?



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10. Name the hyperglycemic hormone?



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1. List any two uses of Bacteria?



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2. Draw a neatly labelled diagram of Chloroplast?



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3. Write the Linnaean Hierarchy of Mango ?



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4. Write any four characters of meristematic Tissues?



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5. What are the functions of Liver?



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6. Distinguish between Vital capacity and Total lung capacity.



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7. Which hormonal deficiency is responsible for the following:

Diabetes mellitus



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8. Which hormonal deficiency is responsible for the following:

Goitre



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9. Write the excretory organs of Arthropods.



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10. Write the excretory organs of Mollusca.



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Super Model Question Paper 2 Part C

1. List the General characters of Gymnosperms.



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2. List the functions of endoplasmic reticulum.



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3. Mention the role of Gibberellins in plants.



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4. Define the following

Epigynous flower.



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5. Define the Phyllotaxy



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6. Define the following

Venation.



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7. Explain transport of carbondioxide by blood.



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8. Briefly explain the digestion of carbohydrates in small intestine.



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9. Briefly explain any two disorders of respiratory system.



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10. What is binomial nomenclature? Write any two rules of binomial nomenclature.



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Super Model Question Paper 2 Part D Section I

1. Explain the different steps in Mitosis?



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2. Draw a neatly labelled diagram of L.S. of phloem and explain briefly.



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3. Explain the structure of Neuron with a neatly labelled diagram?



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4. Answer the following.

Discuss the various factors affecting the photosynthesis.



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5. What is photoperiodism? Classify plants based on photoperiodism.



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6. List the uses of Transpiration ?



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7. Explain the Transpiration pull theory of ascent of sap. Add a note on its merits of demerits.



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8. List the salient features of Phylum Annelida.



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9. Explain the structure of Mitochondria with a neatly labelled diagram.



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10. Mention any five hormones of Pituitary with one function of each.



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11. List the salient features of Phylum Arthropoda.



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Super Model Question Paper 3 Part A

1. Write the Botanical name of wheat?



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2. What is a Manual?



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3. What is holoenzyme?



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4. Name the chemical present in viroid?



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5. What are spicules ?



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6. What are hydathodes?



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7. What is bolting ?



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8. What are flame cells?



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9. What is tidal air volume ?



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10. Name the modern instrument used to record blood pressure.



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Super Model Question Paper 3 Part B

1. Mention any two functions of Golgi apparatus?



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2. Sketch and label the Areolar connective tissue?



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3. Write any four functions of parenchyma tissue



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4. Draw a neatly labelled diagram of the walking leg of a cockroach?



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5. What is bilateral symmetry ? Give an example.



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6. Classify Phylum Coelenterata with an example for each class.



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7. List out any three physiological role of Gibberellins in plant growth.



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8. "Earthworms are called friends of farmers".
Justify the statement.



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1. Write the salient features of the class Reptila?



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2. What is a flower? Describe the parts of a typical angiosperm flower.



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3. What is heterospory? Briefly comment on its significance? Give two examples.



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4. Mention the function of the following
Trachea.



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5. Mention the function of the following

Flame cells



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6. Mention the function of the following

Suckers



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7. Mention the function of the following

Contractile vacuole.



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8. Name the phyla in which you come across

the following:

Pseudocoel



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9. Name the phyla in which you come across the following:

Jointed legs.



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10. Name the phyla in which you come across the following:

Flame cells



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11. Name the phyla in which you come across the following:

Gastro vascular cavity



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12. Write any two distinguishing characters of Fungi.



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13. Write a neatly labelled diagram of V.S of the human heart?



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14. Name the organs of respiration in the following organisms:

Cockroach



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15. Name the organs of respiration in the following organisms :

Birds



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16. Name the organs of respiration in the following organisms:

Frog



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17. Draw a neat labelled diagram of VS of maize grain.



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Super Model Question Paper 3 Part D Section I

1. Describe the structure of the nucleus with a neat labelled diagram?



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2. Briefly explain the stages in Prophase I of meiosis?



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3. List the hormones produced from adenohipophysis and mention any one of their function?



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4. Write short notes on.

Hypertension



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5. Explain the process of protein digestion in the human digestive system.



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1. Explain the structure of the Dicot leaf with a labelled diagram.



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2. Draw a neatly labelled diagram of the digestive system of Cockroach.



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3. Explain the structure of a multipolar myelinated neuron.



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4. Explain the histology of the blood.



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5. Give the schematic representation of an overall view of Krebs cycle.



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