Higher Secondary Second Year

BOTANY

Model Question Paper – 1

Time: 2.30 hours		Marks: 70
	Section – I	15x1=15
Answer all the questions:-		
1 The number of fami	ilies in dicotyledonae are	
a) 132	b) 146	
c) 165	d) 182	
2. Anthers are monoth	necous in	
a) Solanaceae	b) Euphorbiaceae	
c) Malvaceae	d) Musaceae	
3. In mature sieve eler substance called	ments the pores in the sieve plate	are blocked by a
a) Pectin	b) Renin	
c) Callose	d) Elictin	
4. The determination of called	of the age of a tree by counting the	e annual rings is
a) Palynology	b) Dendrochronol	ogy
c) Chronology	d) Pathology	
5. The terminal part of	f a chromosome is called	
a) Sarcomere	b) Telomere	
c) Kinetochore	d) Centromere	
6. The unit of genetic	map is	
a) Morgan	b) Centimeter	
c) Nanometer	d) Locus	

7. Allopolyploid is induced in plant called	by the following treatment chemical	
a) Quinine	b) Morphine	
c) Colchicines	d) Citric acid	
8. Insecticidal activity of Bacillus th toxic protein called	uringiensis bacteria depends on a	
a) Basta	b) Polyhydroxy butyrate	
c) Delta endotoxin	d) Camphor	
9. The function of cytokinin is		
a) Cell elongation	b) Fruit initiation	
c) Cell division	d) differentiation	
10. Enzyme pepsin is active in		
a) Alkaline medium	b) Neutral medium	
c) Acidic medium	d) Basal medium	
11. Which of the following is a 5c compound?		
a) Glucose	b) Fructose	
c) Phospho glyceric	d) RUBP	
12. Medicine used for treating heart disease		
a) Digoxin	b) Quinine	
c) Ephedrine	d) Ginseng	
13. Bio fertilizer used successfully in India rice fields		
a) Gracilaria	b) Laminaria	
c) Azolla	d) Acacia	
14. In Ixora coccinea the stamens ar		
a) Mono adelphous	b) Syngenesious	
c) Epipetalious	d) Diadelephous	

15. The root hairs originate from

a) Trichonblaste b) Endodermis c) Hypodermis d) Pericycle 6x2=12Section – II Answer any six of the following. Question No.22 is compulsory:-16. What is Epicalyx? 17. What is Pseudo stem? 18. Draw and label amphicribral vascular bundle. 19. What are sclereids? 20. Define crossing over. 21. Define vernalisation. 22. Draw and label lampbrush chromosome. 23. Define humulin. 24. What is the function of DNA ligase? Section – III 6x3=18Answer any six of the following. Question No.27 is compulsory:-25. Name the ornamental plants of Malvaceae 26. What are lenticels? 27. Write any three significance of ploidy 28. What is gene gum method? 29. Write the process by which Co2 is evolved during respiration 30. Write a note on tracheids. 31. Write the economic importance of musaceae. 32. Differentiate C3 and C4 pathways 33. Write the economic importance of groundnut. Section – IV 5x5 = 25Answer all the following:-34. Explain Clitoria ternatea in technical terms Differentiate heart wood and sapwood.

35. Explain Bentham and Hooker's natural system of classification.

Or)

Explain gene mutation.

36. Draw and label T.S of Monocot stem.

(Or)

What is SCP? What are the uses of SCP?

37. Explain Glycolysis (flow chart only).

(Or)

Write the aims of plant breeding

38. Explain C2 cycle (flow chart (or) explanation).

(Or)

Explain special types of Chromosomes.