

CLASS - XI BIOLOGY HALF YEARLY 01-10-2013

Name: MM - 70 TIME - 3 HRS

General Instructions:

- (i) All questions are compulsory. There is no overall choice. However, an internal choice has been provided in Q. 24 and Q. 25.
- (ii) Wherever necessary, the diagrams drawn should be neat and properly labelled.

1. Define Systematics.	(1)
2. How do archaebacteria survive in extreme environmental conditions?	(1)
3. What are imperfect fungi and why are they called so?	(1)
4. Which stage of cell division is used to study the morphology of chromosome	and
Surfus S	(1)
-atti Attin tis tit uiblianti. Patatin tianaci e median siinaa afan a man arman isaa a taa a	(1)
Define pseudocoelomate. What is a polysome?	(1)
7. Name the chemical which constitutes middle lamella in plant cells.	(1)
8. How is a peptide bond formed?	(1)
9. In the table given below, enter the correct taxonomic categories:	(2)
Genus Family Order Phylum/Division	
211	
(i) Mango (ii) Mango	
10 Pintinguish between	
- Consume and Prosthetic Group	(2)
b. Condrichthyes and Osteicthyes	(2)
c. Chlorophyceae and Phaeophyceae	(2)
11.Distinguish between cytokinesis in an animal cell and a plant cell. Give diag	rams to
illustrate.	(2)
12. What is a mesosome in a prokaryotic cell? Mention its functions (any two).	(2)
13. How is a key useful in identifying and classifying organisms?	(2)
14.Distinguish between syngamy and triple fusion.	(2)
15. Give any four points of difference between chordates and non-chordates.	(2)
13. Give any loan points of annual artificial	



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16.Explain the significance of G _o phase of cell cycle.	(2)	
17. Name three groups of plants which bear archegonia. Briefly describe	the life cycle	
of any one of them.	(3)	
18.Only two classes under Phylum Vertebrata are homoiothermous. Describe the		
characteristic features of any one of them.	(3)	
19. Describe any one double- membrane organelle of the eukaryotic cel	l. (3)	
20.Differentiate between:		
a. Nucleoside and nucleotide a base and pale belowers need and	(3)	
b. Essential amino acids and Non-essential amino acids	(3)	
c. Secondary and tertiary structure of proteins	(3)	
21. Discuss the three types of plant life cycles on the basis of alternation	of	
generation.	(3)	
22.Enlist the characteristics of prokaryotic cells.	(3)	
23. Describe the fluid mosaic model of the plasma membrane. Draw a w	ell-labelled	
diagram to illustrate your answer.	(3)	
24. (a) Diagrammatically represent the Activation energy change in an e	nzyme-	
catalysed reaction. Explain it.	(3)	
(b) Differentiate between ligases and lyases.	(2)	
s a peptide bond formed? RO		
(a) Explain the effect of concentration of a substrate on the rate of	a chemical	
reaction.	(3)	
(b) Discuss any four classes of enzymes depending on the type of re	actions they	
catalyse.	(2)	
25. Why is mitosis called reductional division? What is the significance o	f melosis?	
Describe the terms "bivalent" and "chiasmata".	(5)	
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Discuss (along with diagram) the different types of transport mechai	nisms across a	
semi-permeable biomembrane.	(5)	
26.Describe in detail (along with diagrams) the events beginning at Prophase I and		
ending at Telophase I in a meiotic division.	(5)	
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