

# **CBSE SAMPLE PAPER - 13 (Unsolved)**

## Class-XI

# **BIOLOGY (THEORY)**

Time: 3 Hrs MM: 70

#### **General Instructions**

- 1. The question paper comprises of five Sections A, B, C, D and E.
- 2. All questions are compulsory.
- 3. There is no overall choice however; internal choice has been provided in one question of 2 marks, one question of 3 marks and all the two questions of five marks category. Only one option in such question is to be attempted.
- 4. Questions1 to 5 in section A are very short questions of one mark each. These are to be answered in one word or one sentence each.
- 5. Questions 6 to 9 in section B are short questions of two marks each. These are to be answered in approximately 20-30 words each.
- 6. Questions 10 to 20 in section C are questions of three marks each. These are to be answered in approximately 30-50 words each. Question 21 is of 4 marks.
- 7. Questions 22 to 23 in section D are questions of five marks each. These are to be answered in approximately 80-120 words each.
- 8. Questions 24 to 26 in section E is based on OTBA of 10 marks.

### Section - A

- 1. What is heterocyst? Give example.
- 2. Write the floral formula for the family Liliaceae.
- 3. Draw a graph for effect of change of substrate on enzyme activity.
- 4. What is the function of goblet cells?
- 5. Name one cell present in the gastric gland. What does it secrete?

### Section - B

- 6. Write a short note on leg-haemoglobin.
- 7. Draw the reproductive system of earthworm.



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8.					
	a)	Define co-factors.			
	b)	What is glycosidic bond?			
		Or			
	How	does the position of centromere form the basis of classification of chromosome?			
9.		Give the classification and nomenclature of enzymesWhat would happen if you forget to add cytokinins to the culture medium of plant tissue culture?			
		Section – C			
10.	Give the schematic representation of an overall view of Kreb's cycle.				
Or					
Why	xylem t	ransports is unidirectional and phloem transport is bi-directional?			
11.	Explain the mechanism of synaptic transmission with the help of diagram.				
12.	Describe the mechanism of sliding filament theory.				
13.	How ATP molecules are synthesized through chemiosmotic hypothesis?				
14.	Describe and expand the terms: FRC, VC and ERV.				
15.	Describe the arrangement of floral members in relation to their insertion on thalamus.				
16.					
	a)	What does algal bloom and red tides signify?			
	b)	Draw the structure of bacteriophage.			
17.					
	a)	What is chyme?			
	b)	How bile helps in digestion of fats?			
	c)	How does pepsinogen change into active form?			



18.	Give	Give the classification and nomenclature of enzymes.				
19.	What	What are casparian strips? Give their functions.				
20.	Ident	Identify the phylum for the following species and write one identifying feature for each of				
	them					
	a)	Limulus				
	b)	Hirudinaria				
	c)	Labeo				
	d)	Loligo				
21	. A snak	e charmer came to the ho	use and smelled the presence of a cobra which the			
			e last 10 years. The landlord agreed to allow the			
			away with him the snake. Little Jazman disagreed			
		ove the man away.	way with him the shake. Ettie jazman uisagi eet			
	ana ar	ove the man away.				
	a) Di	d Jazman do the right thing	? What values did he show?			
	b) W	hat importance do snakes l	nave in nature?			
	c) Dr	raw a food web showing the	e place of snakes.			
			Section - D			
1.	Describ	be the process of urine format	tion in mammals.			
		Or				
		ribe the digestion of carbohy acts absorbed?	drates in human alimentary canal. How are the end			
2.	•		os cycle. Give the role of TCA cycle in living organisms.			
		Or				
	Expla	ain and give diagrammatic re	presentation of Hatch and Slack pathway			
	·	Section	n-E (OTBA) Questions			
24.	ОТВА	A Question	2 mark			
25.		A Question	3 mark			
26.		A Question	5 mark			