

### Sample Paper – 10

#### **CBSE Board**

## **Class XII Biology**

## Sample Paper - 10

Time: 3 Hours Total Marks: 70

#### **General Instructions:**

- 1. All questions are compulsory.
- 2. This question paper consists of four Sections A, B C and D. Section A contains 8 questions of **one** mark each, Section B is of **10** questions of **two** marks each, Section C is of **9** questions of **three** marks each, and Section D is of **3** questions of **five** marks each.
- 3. There is no overall choice. However an internal choice has been provided in **one** question of **2** marks, **one** question of **3** marks and all the **three** questions of **5** marks weight age. A student has to attempt only one of the alternatives in such questions.
- 4. Wherever necessary, the diagrams drawn should be neat and properly labeled.

#### Section A

Q.1.	Seeds are considered better for a staple food than vegetative parts of the		
	plant. Why?	[1]	
Q.2.	How does cow help the calf by licking it?	[1]	
Q.3.	State whether malpighian tubules and kidney are homologous or analogous.	[1]	
Q.4.	What is the main function of gene gun method?	[1]	
Q.5.	What is biopiracy?	[1]	
Q.6.	State the main function of bioreactors.	[1]	
Q.7.	Define pioneer community.	[1]	
Q.8.	Give two examples of decomposers.	[1]	
	Section B		
Q.9.	What is parturition? Which hormones are involved in induction of		
	parturition?	[2]	
Q.10.	Why is Drosophila male fly referred to as heterogametic?	[2]	
Q.11.	If the base sequence of one strand of DNA is CAT, TAG, TAC, GAC, what will		
	be the base sequence	[2]	
	(a) Of complementary DNA strand		
	(b) Of its complementary RNA strand.		
Q.12.	What would have happen if the primordial earth's atmosphere at that time		
	were not reducing but oxidizing?	[2]	

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# CBSE XII | BIOLOGY

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Q.13.	Give any two applications of genetic engineering.	[2]
Q.14.	How does transgenic crops technique differ from normal breeding activities?	[2]
Q.15.	Mention the importance of carbon cycle in nature.	[2]
Q.16.	What does genetic diversity reflect?	[2]
Q.17.	How do nuclear power plants upset ecological balance?	[2]
Q.18.	Why is that once a person starts taking alcohol or drugs, it is difficult to get	
	rid of this habit?	[2]
	0r	
	What should be done when inbreeding depression becomes a problem?	
	Section C	
Q.19.	How long pollen grains retain their viability?	[3]
Q.20.	Draw a labeled diagram of V.S. of apple.	[3]
Q.21.	Differentiate between Down's syndrome and Turner's syndrome.	[3]
Q.22.	In genetics, a reference is made to be an abbreviated expression 'AUG'. Write any three points of scientific information embodied in this combination of	
	three letters.	[3]
Q.23.	How does an antigen differ from an antibody?	[3]
Q.24.	What is the significance of SCP?	[3]
Q.25.		[3]
Q.26.	-	[3]
Q.27.	Explain the differences between the seral stage and the climax community	
		[3]
	Or	
	Describe various techniques used in control of gaseous pollutants.	
	Section D	
Q.28.	Describe briefly the structure of human sperm.	[5]
	Or	
0.00	Briefly describe the characteristics of flowers pollinated by birds.	
Q.29.		[5]
	Or	
	Who proposed the chromosome theory of inheritance? Give the salient feature of this theory.	es

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# CBSE XII | BIOLOGY



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- Q.30. Anand a 14 year old boy thinks smoking makes him more energetic and feel like adult and thus more responsible citizen. He tries to smoke when he is with his peer group. As a friend you have to educate him [5]
  - (a) Why he feels more energetic while smoking?
  - (b) Effects of CO in smoke
  - (c) Other ill effects on body
  - (d) What values are reflected in it?

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