

CHOITHRAM SCHOOL MANIKBAGH INDORE
CLASS XII Session: 2017-18

Subject: Biotechnology
Allotment Date: 24/11/17

Assignment No: III
Submission Date: 29/11/17

S.N O	QUESTION	MAR KS	LEVEL
	OBJECTIVE TYPE		
1.	Define Somatic seed.	1	KNOWLEDGE
2.	What is androgenesis?	1	KNOWLEDGE
3.	What are phytoalexins?	1	KNOWLEDGE
4.	Why meristem is given heat treatment before micropropagation?	1	LOGIC
5.	How cybrids are formed?	1	HOTS
6.	What is a callus and how can callus cultures be recommended for prolonged periods? List two applications of callus culture. Give an account of any two compounds which are modified or produced through plant molecular farming.	4	UNDERSTANDING
7.	1. Children eating golden rice are unlikely to suffer from night blindness. Why? 2. Which future vaccine holds promise of bypassing the need to visit doctor regularly for childhood immunization?	4	LOGIC
8.	What are secondary metabolites? What roles do they play in host? Name any two secondary metabolites produced by microbes and their application in the field of medicine.	4	MULTICONCEPTUAL
9.	<i>Agrobacterium tumefaciens</i> is regarded as nature's genetic engineer. Comment. Enlist the major steps to introduce novel genes into plants using <i>Agrobacterium</i> .	4	HOTS
10.	Write a note on bioethics in plant genetic engineering.	4	VALUE BASED
11.	Explain the process of somatic embryogenesis. How are artificial seeds produced. How can you obtain virus-free sugarcane plants from virus-infected plants? Are these plants insect resistant? Why or why not?	5	UNDERSTANDING
12.	Why does the public view GM crops with concern? Indicate five possible reasons.	5	VALUE BASED