Style of Questions 1

These questions are not what I will bring in the exam and are not all the types.....only examples. They do not cover all the lectures entering in the exam. They are only an example and all items in the lectures are important and can come in the exam.

Question I: Answer the following questions

1.	1. Define the horizontal gene transmission.		
	Wl	nat are its major and minor ways of transmitting the genetic materials?	
• • •			
• • •			
• • •			
• • •			
• • •			
<u>Qu</u>	iest	ion II: Put $()$ or (X) on the following sentences	
	1.	In horizontal gene transmission, the genetic material is transferred from one	
		generation of to the next one. ()	

2. Transduction is a	Transduction is a process used to insert novel genes directly into plant for				
fungal or salt tole	fungal or salt tolerance. ()				
3. In Conjugation, the	he donor bacteria always ensu	re that the recipient bacteria			
do not already con	ntain a similar element. ()			
Question III: Compare between the following pairs					
	Cohesin proteins	Shugoshin proteins			
	Cohesin proteins	Synaptonemal proteins			

		T
	Pericentric	Paracentric
	inversion	inversion
	m v c riston	
	1	1
	T	
	Monosomic	Trisomic
	•	•
	A 1	M4-4:
	Aberration	Mutation
1		

Haploid	Monoploid
	1
Nullisomic	Tetrasomic
Spontaneous mutation	Induced mutation

	Germinal	Somatic
	mutation	mutation
		-
	Base-pair	Base-pair deletion
	insertions mutation	mutation
uestion IV: Give reas	son for	
1. Monoploids plant	ts are sterile	
1. Monoploids plans	ts are sterile	
1. Monoploids plan	ts are sterile	
2. Triploid and pen	ts are sterile taploid plants are sterile while	e Diploid and Hexaploid pla
		e Diploid and Hexaploid pla
2. Triploid and pen		e Diploid and Hexaploid pla
2. Triploid and pen		e Diploid and Hexaploid pla
2. Triploid and pen are fertile	taploid plants are sterile whil	e Diploid and Hexaploid pla
2. Triploid and pen are fertile		e Diploid and Hexaploid pla

	4.	The formation of readthrough protein
••••	5.	Sickle-cell anemia is a type of Missense Mutation
 <u>Qu</u>	est	ion V: Define the followings
	1.	Aberration
	• • •	
	• • •	
••••	2.	Mutation
	•••	
	• • •	
		A 1:1
	<i>3</i>	Aneuploid
	•••	
••••	• • •	

• • •		
• • •		
	1	Deletion
	4.	Defetion
• • •	• • • •	
• • •	• • • •	
	5	Shift form of chromosome
	٠.	
• • •		
• • •		
• • •	• • • •	
• • •		
• • •		
	6.	Disomics
• • •		
• • •	• • • •	
• • •	• • • •	
	7	Dago main authatitution muutatia :
	1.	Base-pair substitution mutations
• • •	• • • •	

8.	frameshift mutation				
• • • • • • •					
•••••					•••••
9.	Cyclins and Cyclin-de	ependent kinas	es		
• • • • • • •	•••••				
			•••••	•••••	•••••

Question VI: Draw with labels only

1. How monoploid plant is created

3.	Types of transductions
4.	Types of Translocation

2. Cell cycle with all the checkpoints in places

5. Duplication

6. Inhibition of the regulation process

Question VII: Importance of the followings 1. Cyclins and Cyclin-Dependent Kinases 2. Checkpoints 3. Aberrations 4. Mutation

Question VIII: Give one example for each of the followings
1. Disomic organism
2. physical mutagen
3. Chemical mutagen
4. Missense Mutation
5. Frameshift mutations
6. Trisomic plant
7. Reciprocal translocation
8. Organism can form shift form of chromosome
9. Transformation