C	F.Y.B.Sc BIOTECHNOLOGY-I II-SEM.EXAMMAR.2013	PRS	2-HRS.	PG-2-1	00
	MAR.2013	60-MARING		× •,	
	TEN CO PIOTECHNOLOGY-I II-SEM.EXAMIII				
D-120313	F.Y.B.SC BIO12011				
~	• All questions are compulsory.				
	 All questions are comp All questions carry equal marks. 		(03)	• •	
	Draw diagram wherever		(05)	•	
	Q.I (A) Define (any three) of the following				
	Q.I (A) Define (any think)				
	1. Eye piece 5. Iris diaphragm				
	2. Pillar of microscope 6. Auxochronic 5		(02)		
	3. Mordant				
	 3. Mordant Q. I (B) Give one word each for (any two) of the following 1. A small platform attached to the arm of microscope used to keep 1. A small platform attached to the arm of microscope used to keep 1. A small platform attached to the arm of microscope used to keep 	, the object sc	n	. •	
	to do the start of the				
•	 A small platform attached to the distribution. The property of a lens that decides the quantity of light that can 	enter into it.	P		
	observation.				
	7 I N/P HSCH LO SKAOJ **				
	to the name for blood stain		(10)		
	Q. I (C) Give an brief account on (any two) of the following				
	Q. I (C) Give an orier account		•		•
	1. Resolving power				
	2. Mechanical parts of a microscope				
	3 Monochrome staining	, .			
	4. Aim and steps in staining		(05)		
	Q II (A) Fill in the blanks (any five)				
	Q II (A) Fill in the blanks (any 1105) 1. A Medium contains the simplest set of ingrediction of the essential nutrients.	ents that the	microorg	anism	
1	A Medium contains the sample				
	can use to synthesize all of the essential nutrients. is a process of transfer of the genetic material in	which bacte	ria picks	up the	
	fragment of free DNA. The recipient cells receiving donor DNA cell in conjugation and the recipient cells receiving donor DNA cell in conjugation and the recipient cells received and the recei	re called	,		
3	. The recipient cells receiving donor broken and construction when any gene is transferred by phage vector the process	is		type of	•
4					
, .	transduction. The suspension of released progeny phages after lysis is called	ed a		•	
5	. The suspension of released progerly phages area types to care. In a population where there are genes having more than two	alleles then	such allel	es are -	
6			·		
•	alleles.	-41.			
7.	Inthe heterozygote exhibits the phenotype of b	om nomozy	gotes	•	
8.	is a phenomenon in which one gene masks the	effect of oth	er gene.		
9.	is the F2 phenotypic ratio of partial dominance	: .			
. 1	0. ———— is the ratio obtained in F ₂ generation of recess	sive epistasi	s in coat	colour	of
	rodents.				
				•	

Q II (B) Explain the following (any two) (10)1. Griffith's transformation experiment. 2. Dominant epistasis. 3. Incomplete dominance. 4. Gene interaction which produces new phenotype without modification of Mendelian ratio. (03)Q III (A) Fill in the blanks (any three) 1. Yellow fibres are formed of protein substance called -2. ----receive and carry impulses towards the cyton. ----- muscle is found only in the walls of the heart. 4. The cytoplasm of the muscle fibre is called -----5. Neurons are packed by non-nervous, non-exciting supporting cells called ------ epithelium because the cells fit together 6. Squamous epithelium is called as ---like tiles of a foot path. Q III (B) Give two functions of the following (any one) (02)1. Areolat connective tissue 2. Hyaline cartilage Q III (C) Discuss the following (any two) (10)1. Ciliated and glandular epithelial tissue. 2. Saccharomyces cerevisiae as a model organism. 3. Characteristics of smooth muscles. 4. Components of nervous tissue. Q IV Write short notes on the following (any three) (15)1. Compound optical microscope with a ray diagram. 2. Steps in staining. 3. Codominance. 4. Essential genes and lethal alleles. 5. Bone. 6. Adipose tissue.