Dra	2 - F.Y. B.Sc IIND SEM. MARCH 2012 - BIOTECHNOLOGY.I - 60 Mks. 2 He questions are compulsory.	particular and a second second
*	W diagrams wherever necessary.	
1.Dei	ine (ANY THREE)	
1.	Letco compound 2. Working distance of a covered object. 4. Limit of Resolution.	(3)
11.	Name the following (ANY TWO)	(2)
)	1. Two natural dyes. 2. Stains used in gram's staining. 3. Aberrations of an objective lens. wer the following (ANY TWO)	
Ans	wer the following (ANY TWO)	(10)
1.	What is meant by Acid fast bacteria? Explain the procedure involved in ZNCF staining?	a L
2.	Explain condensor lens and its types .	
3.	Distinguish between Bright Field & Dark field microscopy.	
F11.	in the blanks :	(5)
1.	The allele that predominates in population of the organism isallele.	
	(wild type, mutant, multiple).	
2.	IA allele converts H antigen to antigen. (A, B, antibody A).	
3.	another so that the phenomenon in which one allele is dominant to another so that the phenotype of heterozygote is same as that of homozygous dominant. (complete dominance, complete recessiveness, incomplete dominance)	tne
4.	In the heterozygote exhibits the phenotype of both homozygotes. (multiple alleles, codominance, partial dominance).	
5.	The comb depends on the presence of two dominant alle R and P located at two independently assorting gene loc (walnut, Pea, Rose).	les i.
6.	An allele that result in the death of an organism is called a allele. (wild, lethal, Essential gene).	* 10
7.	Foreign substance. (allele, antigen, antibody).	he
	in (ANY TWO)	(10
Expla	Partial dominance.	
1.	ABO blood group and multiple alleles.	
1. 2. 3.	ABO blood group and multiple alleles. Dominant epistasis. one function of each of the following (ANY FIVE)	

Q.III. Answer the following (ANY TWO)

- (B)
- Write a note on E coli as a model organism for genetic experimentation 1.
- Define tissue ? Explain cartilage as a connective tissue ? 2.
- Briefly describe nervous tissue ? 3.

Answer the following (ANY THREE) Q.IV.

- Explain striated voluntary muscle ? 1.
- Distinguish between Hugenian & Rams den eyepiece. 2.
- Explain gene interactions producing new phenotypes with modified mendelian ratio. 3. 4.
- Write a note on codominance. 5.