QP Code: 07299

		(2½ Hours) [Total Marks	: 60
N.B.	(2)	All questions are compulsory. All questions carry equal marks. Draw neat labeled diagrams wherever necessary.	
1.	Answe (a) (b) (c) (d)	er any two of the following:— Schematically explain chromosome analysis by FISH. Justify: Malfunctions in meiosis and mitosis result in aneuploidy. Describe the X- chromosomal abnormalities. Discuss the chromosomal defecis in the following (i) Chronic myeloid leukemia (ii) Cat's eye syndrome.	12
2.	Answe (a) (b) (c) (d)	Explain the pathogenesis of Pseudomonas Discuss the classification and causative agents of pneumonia. Describe the immunological tests used for diagnosis HBV infections in the laboratory. Discuss the pathogenesis and clinical picture of tuberculosis.	12
3.	(a) (b)	How would you carry out identification of candida species by RFLP. Comment on: Identification and detection of drug resistance in tuberculosis. Elaborate on the use of microarrays in the diagnosis of pneumonia. Describe the molecular methods used for detection of HCY.	12
4.	(a) (b)	er any two of the following:— Elaborate on the general features and advantages of microbial growth as a biofilm. Justify: Biofilms respond poorly to antibiotics and cause collateral damage to neighbouring healthy tissues. Explain the biofilm formation Helicobacter pylori. With respect to diseases caused by micro organisms residing in biofilms explain— (i) Periodontitis (ii) Otitis media	12
5.	Write (a) (b) (c) (d) (e) (f)	short notes on any three of the following :— Treatment of candidiasis b DNA Mixed culture biofilms Spectral karyotyping Pathogenesis of HIV Laboratory diagnosis of HAV infections	12

___v__