	B) 1) 2)	) Draw the ray diagram for light microscope.	1) 2 3
	3)		1 A) /
	4)	Advantages of phase contrast microscopy.	1) 1
	C)		2)
	1)	•	3)
	2)	Describe the working of TEM.	4)
2.4	A)	Write short note on : (Any 1)	5) 6)
	1)	Osmoregulation 2) Role of Bile salt in digestion of lipids.	7)
	B)	Match the following. (Any 3)	8)
		A B	9
		Diffusion pressure     a) Donan equilibrium	B) 1)
		2) Osmosis b) Force generated by diffusion	2)
		3) Colloids c) Particles less than a micron	3)
		<ul> <li>4) Viscosity</li> <li>5) Osmotic pressure</li> <li>e) Movement of solvent</li> </ul>	4)
			C)
	C)		1
	1)		2
	•	Fill in the blanks. (Any 3)	.2 A
	1)	In a, cells are agitated in suspension with small abrasive particles.	1
		(Solid shear / Ball mill / Liquid shear)	2
	2)	is used to separate celular components on the basis of their buoyant density.	-
		(Ultracentrifugation / Density gradent centrifugation / Isocrasic separation)	
	3)	Cell cultures prepared directly from the tissues of an organism are called as	. !
		(Secondary culture / Primary culture / Organ culture)	1
	4)	The cells of have the ability to aggregate into multicellular structures.	
		(E.coli / Yeast / Dictyostelium)	
	5)	is used as a fixative in histology.	
		(Sarine / Formaldehyde / Serum)	
	6)	is used as a separation medium in density gradient centrifugation.	
		(Glucose / Sucrose / Fructose)	
		Write short notes on : (Any 1)	
	1)	Applications of light microscope.	
	2)	Applications of TEM.	
		Fill in the blanks. (Any 3)	
	1)	The maximum resolution of light microscope is about (0.1 $\mu$ M / 1 nm / 0.2 $\mu$	M)
	2)	When a ray of light passes from one medium to another, occurs.	.3
		(Refraction / Adsorption / Absorption)	
٠.	3)	acts as a collection of prisms operating as a unit.	
		(Lenses / Light source / Condenser)	
		The microscopes having eyepieces for both eyes are known as microscope	e
		(Substage condenser / Light path / Binocular)	J.
	5)	is the distance between the front surface of the lens and surface of the cover	an aloce
		(Working distance / Resolving power / Magnification)	el Ylas
		Fluorochromes absorb energy from excifation light,	
			12
	(	(Light / Solar / Radiation)	
		The End	100