TYBSC Sem I cell Biology &ATC 2016-17 (Biotech old)

QP Code: 77018

(21/2 Hours) [Total Marks: 75 All questions are compulsory. N.B.:(1)All questions carry equal marks. (2) Draw neat, labelled diagrams wherever necessary. (3) 1. (a) Give one example of any three of the following: 3 (i) Extracellular Messengers (ii) Effectors (iii) Cytoskeletal Proteins (iv) Microfilament depolymerizing proteins (v) Microtubule Motor Proteins (vi) Ligands of RTKs (b) Give an account of any two of the following: 12 (i) Types of actin binding proteins (ii) Role of G protein in signal transduction (iii) Structural organisation of Intermediate filaments (iv) Significance of microtubules in mitosis 2. (a) Define any three of the following: 3 (i) ECM (ii) Hypotonic solution (iii) CAD (iv) Uniporter (v) Connexon (vi) Procaspases (b) Attempt any two of the following: 12 (i) Explain the significance of apoptosis in mammalian cells. (ii) Give an account of the structure and role of desmosomes. (iii) Describe the Na+ - K+ pump. (iv) Enlist the criteria for distinguishing between peripheral and integral membrane proteins. 3. (a) Explain any one of the following: 2 (i) Co-culture (ii) Hot Air Oven

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(b) Name any one of the following:	
(i) The equipment based on moist heat sterilization.	
(ii) The term used for storage of tissues in liquid nitrogen.	12
(c) Discuss any two of the following:	12
(i) Design and facilities in animal tissue culture laboratory.	
(ii) Applications of animal tissue culture.	
(iii) Tissue culture vessels.	
(iv) Laminar air flow-horizontal and vertical.	
4 (a) Give significant of the following:	3
4. (a) Give significance of any three of the following:	
(i) Trypsin (ii) Facility MEM	
(ii) Eagle's MEM	
(iii) Kanamycin (iv) Mouse fibroblast Feeder layer	
(v) Organ culture	
(vi) Serum	
(b) Answer any two of the following:	12
(i) Give an account of physicochemical conditions provided for	
animal tissues by ATC media.	
(ii) Discuss advantages of serum in animal tissue culture.	
(iii) Give the biological characteristics of EG and EC cell lines.	
(iv) Give an account of Balanced salt solutions used in Animal tissue	
culture.	9
5. Write short notes on any three of the following:	15
(a) EC gradient	13
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(b) Aquaporins (c) Pole of missofilement in non muscle motility	
(c) Role of microfilament in non-muscle motility	
(d) Calmodulin	
(e) CO ₂ incubator	
(f) Therapeutic cloning	

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