0201N1446

Candidate's Seat No :_____

M.Sc. Sem.-1 Examination

404

Bio-Technology

January-2024

Time: 2	-30 Hours] [Max.	Marks: 70
Q.1.	Describe various nutrient transport mechanisms with suitable examples. Discuss the role of the cytoplasmic membrane in those mechanisms, OR	14
Q.1. (A		07
(H		07
Q.2.	Discuss the major factors affecting microbial growth in detail. OR	14
Q.2. (A	microbial growth. Explain with examples.	07
(B	Enlist various methods of microbial growth measurement and discuss direct methods with their advantages.	07
Q.3.	Discuss the components of complements and explain pathways of its activation.	14
Q.3. (A	OR	
(B)	Tund Wiffe II.	07 07
Q.4.	Write an extensive note on autoimmunity and autoimmune diseases. OR	14
Q.4. (A)	of the state of the type if hyperschishivity in detail.	07
(B)	Discuss cancer immunotherapy in detail with suitable examples.	07
Q.5.	Write 1-2 line answers to <u>any seven</u> of the following	14
a.	Write the full form of MDRO and MRSA.	17
b.	Name two bacteria that can produce exospores.	
c.	What is autocrine signalling?	
d.	What is VBNC?	
e.	What is diauxic growth?	
f.	Explain cardinal temperatures	
g. h.	Define - cytochines.	
i.	Draw a labelled figure of human chromosome - 6 containing genes for MHCs. Which health problem develops due to TAP Jastice.	
j.	Which health problem develops due to TAP deficiency? Give two examples of allograft transplant.	
j. k.	What is horror autotoxicus?	
1.	What does the term 'anaphylaxis' mean?	

----XXXXXX-----