SUB: TISSUE CULTURE AND COMMUNICATION SKILLS

2 ½ HOURS	TOTAL MARKS	S: 75	
Attempt all questions. Draw neat labelled diagrams wherever necessary. Use of log tables and non-programmable calculate	or is allowed.		
For Q 2, Q 3 and Q 4 attempt A and B OR C and D.	the large the day of the first of the contract	40	
Select the appropriate option for the following questions.			
Which of the following was a prediction of the Haber			
a) Plant cells could not grow	b) Plant cells could not divide		
c)The cultured plant cells could grow, divide and develop into embryos further in the whole plant.	d) Plant cells could behave like an animal cell.		
A plant organ or piece of tissue used to initiate a cu	Iture is known as		
a) Organ	b) Tissue		
c) Explant	d) Callus		
is used to wash the glassware and to p	prepare the media in the PTC laboratory.		
a) Media preparation room	b) Dissection room		
c)Sterilization room	d)Culture room		
The glassware and some of the plasticware can be	sterilized using		
a) An autoclave	b) A hot air oven		
c)An incubator	d)Bacteria proof filter		
The velocity of sterile air circulating through laminar	air flow is		
a)30±3m/min	b)50±3 m/min		
c)100±3m/min	d)27±3 m/min		
Gelrite is isolated from			
a) Gelidium Spp	b) Pseudomonas Spp		
c)Staphylococcus Spp	d)Micrococcus Spp		
Energy metabolism in vivo occurs largely by	and the same of th		
a) ETC	b) Glycolysis		
c) EMP pathway	d) Citric acid cycle		
Which of the following is NOT a limitation of ATC?			
a) in vitro Modeling	b) origin of cells		
c) Quantity	d) Instability		
is used to check the osmolality of the AT	C media.		
a) Osmotic Monitor	b) Air pump		
c) Conductivity meter	d) Osmometer		
The variation in the optimum temperature can be wi			
a) ±1 °C	b) ±0.2 °C		
c) ±0.8 °C	d) ±0.5 °C		
	membrane potential.		
a) Na ⁺ and K ⁺	b) Ca ²⁺ and K ⁺		
c) Na ⁺ and SO ₄ ²⁻	d) Ca ²⁺ and Mg ²⁺		
can encourage poor aseptic techniq	ue.		

	CLASS: FYBT	SUB: TISSUE CULTURE AND COMMUNICATION SK	
	a) Organic supplements		(ILLS
	c) Antibiotics	b) Balanced salts	
1	 protein is responsible 	d) Glucose for inhibiting the action of trypsin.	
	a) Fetuin		
	c) Albumin	b) Transferrin	
14	is NOT an example	d) Fibronectin e of a biotechnological tool.	
	a) PCR		
	c) Gravimetric analysis	b) AGE	
15		d) PAGE	
	a) Acknowledgements	cher to reproduce the results/data	
	c) Introduction	b) Materials and methods	
16.		d) Bibliography	
	a) Plagiarism	other researchers.	
	c) Referencing	b) Acknowledgements	
17.	References are NOT cited in		
	a) Abstract	d) Abstract part of a scientific research article.	
	c) Discussion	b) Introduction	
18.		d) Materials and methods	
	An example of extra personal commu a) Prayers 	nication is	
	c) Communication with animals	b) Meditation	
19.		d) Cinema	
	a) MS Word	ra verbal presentation.	
	c) MS Excel	b) MS Project	
20.		d) MS PowerP :	
	a) Signature is an example of a Non-verbal communication.		
	c) Noise	b) Oral presentation	
	5) 110/36	d) Cultural difference	
Q. 2 A	Describe in detail about		
	Describe in detail about the washing area and sterilization room as a part of PTC laboratory. What are microsystics as a second sterilization room as a part of PTC laboratory.		
Q. 2 B	What are micronutrients? Enlist them and mention their physiological role in PTC media		07
	preparation.	mention their physiological role in PTC media	04
	ylilidsterii (ir	OR A CONTRACTOR OF THE PROPERTY OF THE PROPERT	
Q. 2 C	Define plant growth regulators. Explain	about the organic	
Q. 2 D	Define plant growth regulators. Explain about the organic supplements added in PTC media. Describe the growth pattern seen in case of plant cells when grown on a medium.		07
	bescribe trie growth pattern seen in cas	e of plant cells when grown on a medium	
	0	Wad may entrusceed a series and incident.	04
Q. 3 A	Give a brief account of diagram		
	Give a brief account of disadvantages of		
Q. 3 B	What is the role of Growth factors in an a	inimal tissue cultura	07
	B) Call and K*	disde culture media?	04