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Seat No.:

No. of Printed Pages: 2

Sardar Patel University
B.Sc ExaminationSemester V

Subject Botany code USO5CBOT03

Microbiology Microtechnique and Forestry

Date 15/11/2019 Friday

Time 10:00 -1:00 pm

TOTAL MARKS 70

		,
	1 Multiple Choice Questions; T M V was first isolated in crystalline form by	(10)
	(a) Miller (b) Stanley (c) Luria (d) Mayer	
11	Transformation experiment was first performed on Bacteria	Kee F
	(a) salmonella (b) Diplococcus pneumonia	
	(c) Pasteurella (d) Escherichia coli	
Ш	Which one is a dehydration fluid	
	(a) DPX (b) CPRF (c) Carnoy's fluid (d) TBA	
IV	Formaldehyde is an example of	
	(a) Stain (b) Dye (c) Fixative (d) None of these	
V	Which one of the following is a precipitating fixative	
	(a) Chromic acid (b) Ethanol (c) Potasium dichromate (d) Osmiu	m tetroxide
VI	Which wood is the example of extremely durable wood	
	(a) Tectona grandis (b) Albizzia spp (c) Bombex (d) S	Sterculia spp
VII	Fibre of commerce are obtained from family	
	(a) Myrtaceae (b) Rubiaceae (c) Sterculiaceae (d)	Solanaceae
VII	Resin is obtained from	
	(a) Acacia (b) Pinus (c) Cycas (d) Sabai grass	
ΙX	The most favoured plant of lac insect is	
	(a) Melia azadirech (b) Rubia cordifolia	
	(c) Schelicera leaca (d) Acacia nilotica	
Χ	Milky latex is the characteristic of family	er a disa Northeada
	(a)Rutaceae (b) Myrtaceae (c) Meliaceae (d) Euphorbiaceae	

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(PTO)

Short Answer question (attempt any ten)		(20)
1 Give economic importance of Actinomycetes.		
2 Discuss about the properties of Virus.	•	
3 Give the classification of Bacteria based on shape.		
4 Define Maceration.		
5 Write about the principles of staining		
6 Give a brief account of Coal tar dye.		
7 Differentiate wood and Timber.		
8 Write main source and uses of Gum.		
9 Define Sap wood and Heart wood.		
10 What is composite wood.		•
11 Give Botanical name and uses of Katha and Cutch.		
12 Write about the uses of plywood.		
		(05)
Q3 (a) Describe the Ultra structure of Bacterial cell.		(05)
(b) Explain Bacteriophage.		(00)
OR		(05)
Q3 (a) Describe Lytic cycle in Virus.		(05)
(b) Describe Economic importance of Bacteria	wis-I reports	• •
Q4 What is fixative? Explain any two type of fixative use in biolog	gical research	ii. (10)
OR	: 14 원호: 기사기	(05)
Q 4 (a) Write general account of Microtome and its uses.		(05) (05)
(b) Write the process of Embedding.		(06)
Q 5 (a) Describe Wood preservative and their uses.		(04)
(b) Write main sources and uses of Resin.		. (0-7)
OR		(05)
Q 5 (a) Describe source, uses and properties of Dye.		(05)
(b) Write a note on Grass oil.		(10)
Q 6 Explain properties, process and uses of natural Rubber.		: (10) :
OR		(06)
		• ' .
Q 6 (a) Discuss the process of paper making .(b) Give general account of Charcoal .		J (04)