

S H Kelkar Collage Devgad SEM -IV Examination Mar- April 2023 s.sc Botany paper —III (Current Trends in Plant Sc

S.Y.B.sc Botany paper –III (Current Trends in Plant Sciences-I)

Code No – USBO403

Duration – 3 hrs.	Max. mark - 100
N. B.: 1) All questions are compulsory.	
2) Figures to right indicates full marks.	
3) Draw neat labeled diagrams wherever	nēcessary.
Q. 1 A) Fill in the blanks by choosing appropriate	word. 10
1) The term "Horticulture" is derived	from two Latin words, 'Hortus', meaning a
and 'cultura' , meaning cu	ltivation.
a) garden b) fruit c) vegetable	d) flower
Area separating garden from its su	rrounding is
a) path b) lawn c)hedge d) edg	es
3) Pistia is suitable for	
a)lawn b) flower bed c) water	
4) To carry out aseptic work, I	
a) Autoclave b) laminar air flow	c) illuminated rack d) none of these
5) The pH of a Plant Tissue Culture m	redium is usually maintained in the range of
*	
a) 4-5 b) 5-6 c) 6-7 d) 8-9	
	erilizing agent for plant tissue culture.
a) Sodium chloride b)sodium sulp	
c) sodium hypochloritec d)barium	
7) The statistical tool used to evalua	te the difference between observed and expedted
data is called as	
a) Chi squre test b) Coefficient of	
The null hypothesis is denoted by	
a) H4 b) H2 c) H3 d) H0	
	e tends no change in second variable, it is called as
correlation.	
a)linear b) sigmoid c)non-linear	
10) Which of the following is used in	
a)Nymphaea b) Tagetes c) Ixora	d)Cynodon

	1)	Write two characteristic features of flower bed	
	2)	What is pomology? Give one example for the same.	
	3)	What is totipotency?	
	4)	Mention any two enzymes used for cutting the DNA molecules.	
	5)	What is Null Hypothesis? How is it denoted?	
Q. 2.	Α	nswer any two of the following .	20
	1)	With reference to suitable examples, explain any four of the followi	
		a) Edges b)lawn c)Hedges d)Avenue	
	2)	What is National park? Add note on Sanjay Gandhi National Park.	
	3)	Role of botanical gardens in conservation of biodiversity	
31 A 154	4)	Describe water garden and Flower beds.	
Q.3	Ar	nswer any two of the following.	20
	1)	Give an account of laboratory organization for plant tissue culture.	
	2)		
	3)	Define Totipotency. Describe the importance of Totipotency in Pla	nt Tissue Culture
	4)		
Q. 4. /		ver any three of the following.	20
		escribe the term used in Testing of Chi-squre.	
		What are the different properties/characteristics of correlation.	
		Define history of Information Technology .	
	<i>4)</i> D	escribe tools of bio-informatives.	
	Q.5	. Write short note on (any four)	20
	1) Informal Garden.	
	2) Branches of Horticulture.	
	3) Wet Sterilization.	*
	4) Micropropogation.	
	5) What is tblastn?	
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