C106]

No. of printed pages: 2

SARDAR PATEL UNIVERSITY

M. Sc. (IV Semester) Examination-2016

Subject: Biotechnology

PS04EBIT0**1**-Phytoresource Utilization & Conservation

	Date: 11	/04/2016			
	Time: 02:	:30pm to 05:30pm		Ma	arks: 70
Vote.	: figures o	n the right in bracket indicate maxin	num marks.		
Q.1		Choose the correct options to the	followings:		[08]
	1.	Which of the following is a not goo	od source of b	otanical dye?	
		 a. Indogofera tinctoria 	c.	Azadirachta indica	
		b. Curcuma longa	d.	Butea monosperma	
	2.	Our concern about biodiversity is	due to:		
		i) Pharmaceutical value ii)Ecosyst	em value 🏻 iii	Ethical value iv)Tourism value	
		a. i, ii & iii	c.	ii & iii	
		b. i & ii	d.	i, ii, iii & iv	
	3.	Wood is composed of :			
		 a. Axial elements 	c.	Both a and b	
		b. Radial elements	d.	None of the above	
	4.	Which of the following statements	is/are true?		
		 i) John Harshberger coined th 	ne word 'Ethn	obotany'	
		ii) S.K.Jain coined the word 'E	thnobotany'		
		iii) S.K.Jain regarded 'Father o	f Indian Ethno	obotany'	
		iv) Janki Ammal coined the wo	ord 'Ethnobot	any'	
		a. iⅈ	c.	ii & iii	
		b. i & iii	d.	None of the above	
	5.	Edible fatty oil obtained from which	h plant know	n as "bran oil"?	
		a. Oryza satica (Rice)	c.	Zea maize (Maize)	
		b. Triticum spp. (wheat)	d.	None of the above	
	6.	IUCN (The International Union for	Conservation	of Nature and Natural resources)	
		headquarters is at:			
		a. Paris, France	C.	Vienna, Austria	
		b. Gland, Switzerland	d.	New York, USA	
	7.	All are the in-situ conservation effo		New York, OSA	
	7.	All are the m-situ conscivation en	orts except.		
		a. National Parks	c.	Zoo	
		b. Sanctuaries	d.	Biosphere reserve	
	8.	Rattan comes from a			
		a. Royal Palm	c.	Fishtail Palm	

Climbing Palm

Coconut Palm

Q.2	Write short answers for <u>ANY SEVEN</u> of the following:				
	1	Write various characteristics for avenue tree selection.	[14		
	2	Describe the wet cultivation of rice.			
	3	Write a note on scope of ethno medico botany.			
	4	Define Biodiversity. What are different levels of biodiversity?			
1	5	What are the uses of Bamboo?			
	In what way the sapwood is superior or inferior to heartwood? Give an outline the general classification of textile natural fibers. Mention any two important sources of bio-fuels.				
	9 .	Write a short note on Red Data Book.			
Q.3	А	Evoluin in detail the account of			
Q.5	В	Explain in detail the general characteristics, types and cultivation of wheat.	[06]		
	Б	What is growth-ring? Explain the factors responsible for growth-ring formation in soft woods.	[06]		
	_	OR			
	В	"What do you understand by 'NTFP'? Enlisting various NTPFs studied by you, give the botanical source and uses of any four of them.	[06]		
Q.4	Α	Listing any six name of medicinal and aromatic plants of your choice, give a brief	[06]		
		note on each of their uses.	[00]		
	В	Write a note on status of plant biodiversity of India.	[06]		
		OR	[00]		
	В	What are the causes for the extinction or biodiversity degradation?	[06]		
Q.5	Α.	Discuss different criteria to select avenue trees along the road side of Anand	[06]		
		Vidyanagar region.	•		
	В	Describe the role of traditional knowledge in exploring the new uses of phytoresources.	[06]		
		OR			
	В	What is voucher specimen? What is its role in ethnobotanical studies? Explain how	[06]		
		voucher specimens are prepared and preserved?	[]		
Q.6	Α	Describe in details the herbarium and its making.	[0.0]		
	В	Explain in detail <i>In-situ</i> and <i>ex-situ</i> plant conservation strategies.	[06]		
		OR	[06]		
	В	Explain in detail Role of BSI in Plant Taxonomic Research.	[OC]		
		· · · · · · · · · · · · · · · · · · ·	[06]		

ALL THE BEST