[24/26/38/40]

SARDAR PATEL UNIVERSITY

M. Sc. (II /IV Semester) Examination - April 2018

Subject: Biochemistry/Biotechnology/Microbiology Course Code: PS04EBIT01/PS04EMIC08/PS04EBIC05 /PS02EMIC01 Course Title: (Phytoresource Utilization & Conservation)

Date: 17/04/2018

Time: 10.00 am to 01:00 pm

Total marks: 70

		Total Harks. 70	
Q.1 Choose the most appropria	te answers to the following:	(08)	
(i) The Word 'Biodiversity' has	become popularized due to the contrib	outions of:	
(a) E.O. Heckel	(b) J. H. Strashberger		
(c) D.C. Wickson	(d) E.O. Wilson		
(ii) The term Ethnobotany is co	nined by:		
(a) S.K. Jain (c) John Harshberger	(b) Gary.J. Martin (d) Janki Ammal		
(III) Which of the following plan	ts has narcotic effects?		
(a) Poppy (b) Ashwagan	dha (c) Sarpagandha (d) Anantmu	ال	
	e rich source of botanical dyes?		
		oth ∆ and R	

- (V) Which of the following is over exploited wild plants of Gujarat?
 - (a) Sarpagandha (b) Aswagangha
- (c) Guggal
- (d) All the three
- (VI) Edible fatty oil, popularly known as "bran oil" is obtained from:
 - (a) Oryza
- (b) Triticum
- (c) Zea
- (d) All the three

- (VII) Angiosperm wood is composed of:
 - (a) only xylem vessels
 - (b) Xylem vessels and tracheids
 - (c) Xylem vessels, tracheids and fibres
 - (d) xylem vessels, tracheids, fibres and parenchyma
- (VIII) Long distance transport of water in gymnosperms is carried out by:
 - (a) Vessels

(b) Parenchyma cells

(c) Fibers

(d) Tracheids

(P. T. O.)

Q.2	Attempt any seven of the following:	v -
	2.1. What is non-porus wood? Where does it found? What is its importance?2.2. Write the main function of each of the xylem components.2.3. Describe the functions of heart wood.2.4. Briefly mention about the herbarium label and the infections.	(14)
2	2.6. Enlist the precautions to be taken for longtime preservation of vourch specimens?	er
	2.7. What is Ethnomedicobotany? How does it differ from Economic botar and conservation? Output Description	iy? ilization
2. 0.3 (a) (.9. List any four national institutes which are involved in phytoresource conservation? Where are they located?	
	Give a detailed account on little known food plants and their potential use Give description of important fodder plants and their importance. OR	es. (6) (6)
(b) [Q.4. (a) ∀	Describe the different types of medicinal plants and their uses. Vith adequate examples, justify "Ethnobotany as an interdisciplinary and ultidisciplinary science".	(6)
(b) [Describe various collection methods of ethnobotanical data.	(6) (6)
(b) v acc	What is ethnobotanical voucher specimen? Highlighting its significance, go count of preparation of such specimens?	
્ય.ક. (a) W (b) Ei	drite a detail notes on important timber yielding plants. Inlist the botanical names of any four gum yielding plants. Describe differences of gums, resins, tannins.	(6) (6) ent
(b) Ta	OR aking suitable examples describe the invent	(6)
Q.6. (a) Wh	hat are sacred plants and groves? What is the	6)
Justi	ify your answer.	pe?
	indian initiatives for <i>in situ</i> conservation.	5) 5)
(b) Des	scribe briefly about gene banks and botanical gardens in phytoresource	
	(6	i)