## Class / Semester / Subject Code: S.Y.B.Sc./III/ USBO303– Botany - II - Current Trends in Plant Sciences – I

Date:	10.10	.201	9	Time – 3 Hours	Total Marks:100	
N. B.	2. Fi	gure	e questions are con es to the right indic neat labelled diagr	<u> </u>	ssary.	
Q.1.	A]		oose the most correct option and rewrite the sentence.			(10)
		a)		o improve intelligenc		
			i) Ashokarisht	ii)	1	
			iii) Gotu Kola	iv)	Bhui Amla	
		b)		ing, which is the sour		
			i) Atropa		Glycyrrhiza	
			iii) Treminalia		Eucalyptus	
		c)	_	ained from	G. All	
			i) sea-weeds	<i>'</i>	Sterculia urens	
			iii) <i>Picea</i> species		Acacia arabica	
		d)		re found in f	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
			i) Beach	· · · · · · · · · · · · · · · · · · ·	Tidal	
			iii) Swamp Silviculture means		Scrub	
			i) growing fores		rearing silkworm	
			iii) rearing honey		extracting silver	
				n is of flower	<u> </u>	
		1)	i) petals		filaments	
			iii) stigmas	iv)	sepals	
		g)	Jute is obtained fr		•	
		5)	i) leaves	ii)	bark	
			iii) phloem		Seed coat	
				cted from		
		/	i) Ananus com	W. Committee of the com	Carica papaya	
			iii) Garcinia ina		Amaranthus spinosus	
			, Y	piofuels are produce	-	
	•	1)	i) algae	ii)	fungi	
			iii) biomass	iv)	agricultural crops	
		j)	/ A \	alled 'superfood'?	agriculturar crops	
		J <i>)</i>	i) Chlorella	ii)	Anabaena	
		1	iii) Ulva	iv)	Rivularia	
		×	m) Uva	17)	Rivitaria	
Q.1.	B]	Ans	wer the following a	questions in one or tw	o sentences	(10)
			wer the following questions in one or two sentences.  Which plant is used to adulterate arjuna bark?			(10)
			What is monograp	-	•	
	4		Define agroforestr			
			Give the sources o	=		
			Write scientific na			

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## Q.2. Answer **any two** from the following: (20)

- a) Give the significance of Indian Pharmacopoeia.
- b) Write macroscopic characters and pharmacological activities of *Centella* asiatica.
- c) Give the sources, properties and uses of tannins.
- d) What is adulteration and substitution of medicinal herbs? What is its need? Explain the types of adulteration and substitution.
- Q.3. Answer **any two** from the following:

(20)

- a) Describe climate, geography and flora of tropical moist forests of India.
- b) Define organic farming. Describe aims, objectives and significance of organic farming.
- c) Give the source, properties and uses of cotton fibre.
- d) What is saffron? Give its active constituents. Add a note on its commercial importance.
- Q.4. Answer **any two** from the following:

(20)

- a) Write a note on nutraceutical value of Spirulina and Chlorella.
- b) Discuss the uses of Jojoba and Jasmine.
- c) What are Biofuels? Discuss the method of production of biofuels.
- d) Discuss the sources, properties and applications of Vanillin.
- Q.5. Write short notes on **any four** of the following:

(20)

- a) Ayurvedic pharmacopoeia.
- b) Properties of volatile oils.
- c) Uses of jute fibre
- d) Objectives of urban forestry
- e) Bioethanol
- f) Garcinia cambogia

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