REV-01 BSB/11/16

> **B.Sc. BOTANY** SIXTH SEMESTER PLANT RESOURCE UTILIZATION BSB-603

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Objective )

Time: 30 mins.

Full Marks: 70 Marks: 20

 $1 \times 20 = 20$ 

2023/06

Choose the correct answer from the following:

- a. Maceration
- c. Decoction
- The general techniques of medicinal plant extraction are: b. Digestion

d. All of the above

- Copal is a:
  - a. Hard resin c. Gum resin

- b. Oleo resin
- d. None
- Margosa belongs to the family:
  - a. Meliaceae

b. Liliaceae

c. Solanaceae

- d. Asteraceae
- Which of the following is timber yielding plant?
  - a. Neem

b. Jasmine

c. Henna

- d. Teak
- "Henna dye" is obtained from:
  - a. Lawsonia inermis

b. Lagerstomia speciosa

c. Lythrum bacticum

- d. Indigofera tinctoria
- A chemical compound called 'taxol', which is extracted from the bark, needles, twigs and roots of Himalayan yew, is used to treat.....
  - a. Tuberculosis

b. Diabetes

c. Malaria

- d. Cancer
- 7. Which spice is derived from the dried stigma of a flower and is known for its distinct flavor and vibrant color?
  - a. Cinnamon

b. Turmeric

c. Saffron

- d. Paprika
- 8. Which of the following plants is commonly used for the production of cotton fiber?
  - a. Linum usitatissimum

b. Gossypium spp.

c. Corchorus spp.

- d. Cannabis sativa
- Bioprospecting is the process of:
  - a. Exploring the potential of biological resources for commercial purposes
  - c. Investigating the impact of climate change on biodiversity
- b. Discovering new planets in outer space
- d. Studying the social behavior of animals in their natural habitats

	10	Which of the following is not a type of seaw	eed	?
	10.	a. Kelp c. Dulse	b.	Nori Clam
	11.	ldentify the family of Basil plant.  a. Moraceae  c. Verbenaceae		Theaceae Lamiaceae
	12.	Name the medicinally important part of gin  a. Bulb  c. Rhizome	b.	Corm Offset
	13.	Botanical name of Tea: a. Rosa sinensis c. Azadirachta indica		Camellia sinensis Pyrus malus
	14.	"Citronellol" is an essential oil constituent of a. Rose c. Tulsi	b.	Jasmine Lemon grass
	15.	A technique consists of immersing a plant i airtight container:  a. Percolation c. Decoction	b.	liquid (water, oil, alcohol, etc.) inside an Maceration Digestion
	16.	The Star Anise (Illicium griffithii) is a medici 	b.	plant found in the forests of Uttarakhand and Ladakh Jammu & Kashmir and Sikkim
٠	17.	Which human activity can contribute to a da. Afforestation c. Mining	b.	ease in the level of atmospheric oxygen? Animal hunting Deforestation
	18.	Which of the following is a root vegetable of a. Tomato c. Lettuce	b.	monly used in cooking? Carrot Bell pepper
	19.	Which type of seaweed is commonly know forests?  a. Green seaweed  c. Brown seaweed	ь	s kelp and forms large underwater . Red seaweed . Blue-green seaweed
	20.	Untapped plant resources may have poten a. Food and nutrition	tial	

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## $\left(\underline{Descriptive}\right)$

Tim	e: 2 hr. 30 mins.	Marks: 50
	[ Answer question no.1 & any four (4) from the rest ]	
1.	Write about different herbal preparations methods of extraction.	10
2.	Write a brief note on gum yielding plants, citing few examples.	10
3.	Write short note on: a) Lemon grass b) Amla	5+5=10
4.	Mention the scientific name, family, part used and uses of the following: a) Turmeric b) Aloe	5+5=10
5.	Discuss the following: a) Key causes of deforestation b) Uses of cotton	5+5=10
6.	What are fodder crops? Write origin, botany and uses of oats.	2+2+3+3=10
7.	What is bioprospecting, and how does it involve the search for natural resources with potential applications in various fields such as medicine, agriculture, and industry?	2+8=10
8.	What are seaweeds, and how can they be harnessed as a promising food resource with diverse applications?	2+8=10

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