REV-01 BSB/18/23

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

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

**Objective** 

Time: 30 mins.

Choose the correct answer from the following:

a. Moraceae

c. Verbenaceae

1. Name the family of Basil plant.

b. Theaceae d. Lamiaceae

2. The general techniques of medicinal plant extraction are:

a. Maceration

c. Decoction

b. Digestion d. All of above

3. Name the medicinally important part of ginger.

a. Bulb

b. Corm

c. Rhizome

d. Offset

"Citronellol" is an essential oil constituent of:

a. Lemon grass

b. Rose

c. Jasmine

d. Tulsi

5. Colored compounds capable of being fixed to fabrics:

a. Dye c. Gum b. Resin

d. All of above

A technique consists of immersing a plant in a liquid (water, oil, alcohol, etc.) inside an airtight container:

a. Percolation

b. Maceration

c. Decoction

d. Digestion

7. Botanical name of mint is:

a. Mentha arvensis

b. Abemoschusmoscatus

c. Pelargonium graveolens

d. Vetiveriazizanioides

Copal is a:

a. Hard resin

b. Oleo resin

c. Gum resin

d. None

9. Margosa belongs to family:

a. Solanaceae c. Moraceae

b. Meliaceae

d. Liliaceae

10. Which of the following is the type of bioenergy?

a. Fossil fuels

b. Solar energy

c. Biofuels

d. Chemical energy

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2024/05

SET

Full Marks: 70

Marks: 20

 $1 \times 20 = 20$ 

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11.	Illicium griffithii is a medicinal plant found in a. Northeast India c. Nilgiri hills	b.	e forests of: Western Ghats Jammu & Kashmir
12.	Which country is a major consumer of seaw a. India c. Japan	b.	products? USA Australia
13.	Which of the following is NOT a root vegeta a. Sugar beets c. Bamboo shoots	b.	? Carrot Cassava
14.	<ul><li>Which of these industries could benefit mos</li><li>a. Pharmaceutical research</li><li>c. Automotive engineering</li></ul>	b.	om untapped plant resources? Software development Textile manufacturing
15.	Longest cells in the plant kingdom belong to a. Vessel c. Fibers of Ramie	b.	Tracheid Cotton fiber
16.	Which of the following plants is commonly a. Lavender c. Tomato	b.	d to make essential oils? Potato Cactus
17.	Which environmental benefit is associated vertuels?  a. Increased greenhouse gas emissions  c. Reduced carbon dioxide emissions	b.	using bioenergy compared to fossil  Higher air pollution  Depletion of natural resources
18.	Which region is known for its rich biodivers  a. Arctic tundra  c. Sahara Desert	b.	of untapped plant species? Amazon rainforest Australian Outback
19.	Which of the following is not a type of seaw a. Kelp c. Dulse	b.	? Nori Clam
20.	Which type of seaweed is commonly known a. Green seaweed c. Brown seaweed	b.	kelp and forms large underwater forests? Red seaweed Blue-green seaweed

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## **Descriptive**

Time: 2 hr. 30 mins.

Marks: 50 [ Answer question no.1 & any four (4) from the rest ] 1. Write short notes on: 5+5=10 a) Aloe vera b) Basil Write in detail about different herbal preparations methods of 10 extraction. Define Resin. Describe briefly about different types of resin. 2+8=10 3. Write a brief note on timber yielding plants citing two examples and 6+4=10 their uses. 4. Name the scientific name, family and part used of Henna or Amla 6+4=10 plant. Write its medicinal uses. 5. What are foodplants? Write origin, botany and uses of Potato. 2+2+3+3=10 6. Discuss the following: 5+5=10 a) Advantages and disadvantages of Bioenergy b) Uses of cotton 7. What is bioprospecting, and how does it relate to the exploration of 2+8=10 biodiversity for potential commercial applications? What will be the future role of seaweeds in addressing global challenges 10 related to food security, public health, and sustainable agriculture?