

(6 pages)

Reg. No. :

Code No.: 5441

Sub. Code: ZBOE 41

M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2023.

Fourth Semester

Botany

Elective – MEDICINAL BOTANY AND DIETETICS

(For those who joined in July 2021 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer:

1. What is the habit of *Aloe vera*?
(a) Shrub (b) Herb
(c) Tree (d) Climber
2. *Acorus calamus* belongs to the family
(a) Apocynaceae (b) Acoraceae
(c) Oleaceae (d) Gentianaceae

3. Castor oil is extracted from
(a) *Brassica campestris*
(b) *Ricinus communis*
(c) *Azadirachta indica*
(d) *Sesamum indicum*
4. Lavender oil is extracted from
(a) *Sesamum indicum*
(b) *Helianthus annuus*
(c) *Lavandula angustifolia*
(d) *Sterculia foetida*
5. What is the highest content in rice?
(a) Starch
(b) Protein
(c) Fat
(d) Tannins
6. _____ is the main constituent responsible for the medicinal properties of ginger.
(a) Gingerol
(b) Eugenol
(c) Camphor
(d) Menthol

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7. What are the most common causes of memory loss?
- Depression
 - Infection
 - Medication side effects
 - All the above
8. What plant-based foods are good for treating constipation?
- Dried plums
 - Pears
 - Figs
 - All the above
9. Which of the following is a polyunsaturated fatty acid?
- Palmitic acid
 - Palmitoleic acid
 - Linoleic acid
 - Oleic acid
10. Which food has prebiotics?
- | | |
|------------|-------------------|
| (a) Onions | (b) Garlic |
| (c) Oats | (d) All the above |

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PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Write notes on the morphology of useful parts and the systematic position of *Tylophora asthmatica*.

Or

- (b) Write notes on systematic position and uses of *Plantago ovata*.

12. (a) Write a brief note on the source and medicinal uses of neem oil.

Or

- (b) Write notes on the source and medicinal uses of coconut oil.

13. (a) Write a brief note on the chemical constituents and therapeutic value of green gram.

Or

- (b) Describe the therapeutic value of guava.

14. (a) What plant foods are best for constipation?

Or

- (b) What are the plant foods to eat for psoriasis patients?

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15. (a) Where do vegans get dietary fiber? Discuss the importance of Dietary fibers.

Or

- (b) What plant food contains PUFA? Describe the therapeutic importance of PUFA.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 600 words.

16. (a) Write an essay on the Indian system of medicine.

Or

- (b) Write an essay on habitat, habit, systematic position, the morphology of the useful part and uses of *Tinospora cordifolia*.

17. (a) Write a brief note on the source, properties and medicinal uses of olive oil.

Or

- (b) Write notes on the source, properties and medicinal uses of lavender oil.

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18. (a) Describe the source, chemical constituents and therapeutic value of ginger.

Or

- (b) Write notes on the source, chemical constituents and therapeutic value of pepper.

19. (a) What is arthritis? Which plant foods are good for arthritis?

Or

- (b) What are nutraceuticals? What are the plant sources of nutraceuticals?

20. (a) What is an antioxidant and why is it important? Which plant foods have antioxidants?

Or

- (b) What are cosmeceuticals? Describe the importance of retinoic acid.

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