

(6 Pages)

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M.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2021.

Fourth Semester

Botany

Elective — MEDICINAL BOTANY AND DIETETICS

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 1 = 10$ marks)

Answer ALL questions.

Choose the correct answer :

1. The World Health Organization estimates _____ percent of people in the world use traditional remedies instead of pharmaceuticals.
(a) 20 (b) 40
(c) 60 (d) 80
2. Herbs are aromatic
(a) leaves (b) stems
(c) seeds (d) fruits

3. Castor oil is obtained from
- (a) *Sesamum indicum*
 - (b) *Linum sp*
 - (c) *Brassica campetsris*
 - (d) *Ricinus communis*
4. This is important in the regulation of calcium levels, especialky for normal bone development.
- (a) Vitamin A (b) Vitamin B
 - (c) Vitamin C (d) Vitamin D
5. Which of the most important source of food and fodder?
- (a) algae (b) fungi
 - (c) lichen (d) cereal
6. Ginger and turmeric are spices made from
- (a) the inner bark of trees
 - (b) rhizomes
 - (c) dried flower buds
 - (d) fermented and dried berries

7. Diabetic patients are advised to take more of mushrooms as they contain
- (a) Low protein (b) High protein
 - (c) More minerals (d) Low carbohydrates
8. Metabolic intermediates found in living system which are essential for growth and life is called
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- (a) Saponins
 - (b) Tannins
 - (c) Secondary metabolite
 - (d) Primary metabolites
9. What is the best way to prepare vegetables to retain the most antioxidant activity?
- (a) Serve raw (b) Steam lightly
 - (c) Boil (d) Microwave
10. For preventative regimens, experts recommend getting antioxidants from food as well as relying on supplements because
- (a) Supplements mostly contain therapeutic levels of antioxidants, whereas foods contain maintenance amounts
 - (b) Supplements do not contain the variety of phytochemicals that fruits and vegetables do
 - (c) Many people can't remember to take pills
 - (d) Supplements must be taken in megadoses to have an effect

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Comment on habit, morphology of *Holarrhena antidysenterica*.

Or

- (b) Narrate habit and morphology of *Tylophora asthmatica*.

12. (a) List out the properties of neem oil.

Or

- (b) What are the sources of olive oil?

13. (a) Comment on Indian plant food rice.

Or

- (b) Write notes on black gram in Indian food.

14. (a) Write notes on control of memory loss.

Or

- (b) Describe food as a medicine.

15. (a) What are antioxidants?

Or

- (b) Write notes on probiotics.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Discuss on medicinal uses of *Acorus calamus*.

Or

- (b) Write an essay on uses of *Tinospora cordifolia*.

17. (a) List out the medicinal uses of castor oil.

Or

- (b) Highlight the properties and medicinal uses of olive oil.

18. (a) Give an account on therapeutic value of lemon and banana.

Or

- (b) Describe about medicinal value of ginger and turmeric.

19. (a) Give an account on treatment of diarrhoea.

Or

- (b) Discuss on treatment of arthritis.

20. (a) Write an essay on dietary fibers.

Or

(b) Describe about prebiotics and its significance.
