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(NEP—2020)

(1st Semester)

BOTANY (MAJOR/MINOR)

(Economic Botany)

(Revised)

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

(SECTION : A—OBJECTIVE)

(Marks : 10)

Tick (✓) the correct answer in the brackets provided :

1×10=10

1. Fertile crescent represents which of the following regions?

- (a) China () (b) Egypt ()
(c) Mideast () (d) America ()

2. What was the primary use of Indigo (*Indigofera spp.*) plants in ancient times?

- (a) Food source () (b) Dye production ()
(c) Medicinal purpose () (d) Timber ()

3. Staple food of Mizoram is

- (a) *Oryza sativa* ()
(b) *Zea mays* ()
(c) *Saccharum officinarum* ()
(d) *Cajanus cajan* ()

4. The nitrogen-fixing bacteria commonly associated with pulse root nodule is
(a) *Azotobacter* () (b) *Nostoc* ()
(c) *Frankia* () (d) *Rhizobium* ()
5. Which of the following is used as a culinary spice?
(a) *Corchorus capsularis* ()
(b) *Curcuma longa* ()
(c) *Camellia sinensis* ()
(d) *Arachis hypogaea* ()
6. *Shorea robusta* is a good source of
(a) oil () (b) fibre ()
(c) timber () (d) spice ()
7. Which one of the following is an oilseed plant?
(a) Tea () (b) Teak ()
(c) Ginger () (d) Mustard ()
8. The part used for medicinal purposes in *Allium sativum* is the
(a) underground stem () (b) seed ()
(c) fruit () (d) root ()
9. Vincristine and vinblastine are obtained from
(a) *Cinchona ledgeriana* ()
(b) *Carica papaya* ()
(c) *Catharanthus roseus* ()
(d) *Cuminum cyminum* ()
10. Which is one of the primary nutritional benefits of the fruits of *Phyllanthus emblica*?
(a) High in protein ()
(b) Rich in vitamin C ()
(c) Good source of calcium ()
(d) High in fibre ()

(SECTION : B—SHORT ANSWERS)

(Marks : 15)

Write short notes on *five*, taking at least *one* from each Unit :

3×5=15

UNIT—I

1. Factors influencing centres of origin
2. Plant quarantine

UNIT—II

3. Morphology of rice plant
4. Uses of French beans

UNIT—III

5. Uses of groundnut
6. Uses of ginger

UNIT—IV

7. Uses of fruits of *Carica papaya*
8. Quinine

(SECTION : C—DESCRIPTIVE)

(Marks : 50)

Answer *five* questions, taking at least *one* from each Unit :

10×5=50

UNIT—I

1. Write an account on germplasm augmentation and conservation. 10
2. Describe the different methods in the tapping and processing of natural rubber. 10

UNIT—II

3. Write the botanical description of soya bean. Mention its uses. 5+5=10
4. Write notes on the following : 5+5=10
- (a) Processing of sugarcane
 - (b) Uses of maize

UNIT—III

5. Describe the botanical names and uses of tea and coffee. 5+5=10
6. Write short notes on the following : 5+5=10
- (a) Uses of jute
 - (b) Uses of turmeric

UNIT—IV

7. What are the different alkaloids obtained from *Rauwolfia serpentina*? Write a note on their uses. 2+8=10
8. Briefly describe the following : 5+5=10
- (a) Uses of seeds of *Piper nigrum*
 - (b) Uses of leaves of *Aloe* spp.

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