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3 (Sem-3/CBCS) BOT HC 2

2022

**BOTANY**

(Honours)

Paper : BOT-HC-3026

**(Economic Botany)**

Full Marks : 60

Time : Three hours

***The figures in the margin indicate full marks for the questions.***

1. Answer the following questions/Choose the correct one : **(any seven)** 1×7=7
- (a) Write the full form of NBPGR.
  - (b) Write the botanical name of wheat.
  - (c) What type of soil is suitable for cotton cultivation ?
  - (d) Name a drug yielding plant where drug is obtained from root.

Contd.

(e) From which part of the plant *Papaver somniferum* 'opium' is extracted ?

(f) Choose the correct answer :

Botanical name of the plant that yields pararubber :

(i) *Ficus elastica*

(ii) *Hevea brasiliensis*

(iii) *Manihot glaziovii*

(iv) *Ficus religiosa*

(g) Choose the correct answer :

*Cinchona officinalis* belongs to the family :

(i) Acanthaceae

(ii) Verbenaceae

(iii) Rubiaceae

(iv) Asteraceae

(h) What is the source of 'Congo Coffee' ?

(i) Linseed oil is obtained from which plant ?

- (j) Name the family of *Tectona grandis*.
- (k) What is the advantage of eating ground nuts ?
- (l) Define 'loss of crop genetic diversity'.

2. Answer the following very briefly : **(any four)**

2×4=8

- (a) What is 'Orange Fannings' ?
- (b) What is the nature of chief food reserve in —
  - (i) Soybean
  - (ii) Rice
  - (iii) Potato and
  - (iv) Sugarcane ?
- (c) Mention the importance of leguminous plants to the ecosystem.
- (d) How potato plant is propagated ?

(e) What do you understand by domestication ?

(f) State the uses of Coir.

(g) What is the greatest advantage of plant introduction ?

(h) What are germplasm banks ?

3. Answer briefly : **(any three)**  $5 \times 3 = 15$

(a) Mention the uses of tobacco.

(b) Mention the importance of germplasm diversity.

(c) Write briefly about *two* spices (mention scientific name) that are used in Indian cuisine.

(d) Mention the uses of timber obtained from Pine.

(e) Write short note on habit-forming drugs.

(f) Write a brief account on millets.

(g) Give the scientific name, family and parts used of the following:

(i) Cardamom

(ii) Cumin

(h) 'Cannabis' is obtained from which plant? Point out the therapeutic effects of cannabis.

4. Answer **any three** of the following:

10×3=30

(a) Describe the method of processing of sugarcane. Mention the products and by-products of sugarcane industry.

4+6=10

(b) Write an essay on drug yielding plants studied by you.

(c) What is plant introduction? What are the different types of plant introduction? Mention the steps involved in plant introduction.

3+2+5=10



(d) What are essential oils? Write briefly about various methods of extraction of essential oils. How essential oils differ from fatty oils?  $2+6+2=10$

(e) Define fibres from anatomical point of view. How fibres can be classified on the basis of their origin?  $4+6=10$

(f) What is tapping? Describe the processing and uses of rubber.

$3+4+3=10$

(g) Write the scientific name, family, part used and economic importance of the following spices —  $2\frac{1}{2}\times 4=10$

(i) Fennel

(ii) Saffron

(iii) Clove

(iv) Black pepper

(h) Discuss briefly the cultivation practices of tea. Describe various steps of processing of black tea. 4+6=10

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