

[This question paper contains 4 printed pages.]

Sr. No. of Question Paper : 1433

F-7

Your Roll No.....

Unique Paper Code : 2161303

Name of the Paper : Plant Resource Utilization

Name of the Course : **B.Sc. (Hons.) Botany FYUP**

Semester : III

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

1. Write your Roll No. on the top immediately on the receipt of this question paper.
2. Attempt **five** questions in all.
3. Question No. **1** is compulsory.
4. Write Botanical names wherever applicable.

1. (a) Briefly explain **any five** of the following :

(5×2=10)

- (i) Pod of legume
- (ii) Winnowing
- (iii) Pomade
- (iv) Hevea crumb
- (v) Aleurone layer
- (vi) Gynophore
- (vii) Parboiled rice

P.T.O.

- (b) Expand **any five** of the following : (5×1=5)
- (i) ICRISAT
 - (ii) CDRI
 - (iii) IRRI
 - (iv) NBPGR
 - (v) CTRI
 - (vi) CTC
 - (vii) IARI
2. Write short notes on **any three** of the following : (3×5=15)
- (a) Different methods of tapping of rubber
 - (b) A spice obtained from fruits
 - (c) Retting of jute
 - (d) Chemical composition and uses of mustard seeds/oil
3. Give the botanical name, family plant part used and uses of **any five** of the following : (5×3=15)
- (a) Sandalwood
 - (b) Clove
 - (c) Foxglove
 - (d) Cumin
 - (e) Poppy

- (f) Coconut
- (g) Coffee
4. Differentiate between **any five** of the following : (5×3=15)
- (a) *Nicotiana tabacum* and *N. rustica*
- (b) Drying and non-drying oils
- (c) CTC and conventional tea
- (d) Lint and fuzz fibres
- (e) Indica and japonica rice
- (f) Fibre from seed coat and fibre from stem
5. Draw well labelled diagrams of **any three** : (3×5=15)
- (a) L.S. fruit of black pepper
- (b) T.S. fruit of coconut
- (c) T.S. tuber of potato
- (d) T.S. *Corchorus* stem
6. Give a detailed account of **any three** : (3×5=15)
- (a) Processing of tea leaves.
- (b) What are TPS ? Enumerate the advantages of TPS over seed potato.
- (c) Opium and its derivatives are a boon as well as a curse to mankind.
- (d) Explain the different methods for extraction of essential oils.

7. Answer **any two** of the following : (7.5×2=15)

- (a) Trace the evolution of hexaploid wheat.
- (b) Discuss the different methods of curing of tobacco.
- (c) What is the significance of knowing the centers of origin of cultivated plants ?
Discuss Vavilov's work in relation to these.