

Total No. of printed pages = 4

3 (Sem 6) BOT M4

2015

BOTANY

(Major)

Theory Paper : M-6.4

(Plant Resource Utilization)

Full Marks – 60

Time – Three hours

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

1. Fill in the blanks. /Answer the following :

1×7=7

- (a) Write the scientific name of the plant from which 'Reserpine' is obtained.
- (b) Mention the name of the alkaloid obtained from 'Black Pepper'.
- (c) Who first coined the term Ethnobotany ?
- (d) Who is known as father of "Green Revolution" ?

[Turn over

- (e) Botanical name of "Ramie" plant is _____.
- (f) Mention name of one organization involve in introduction of plant material in India from outside the country.
- (g) The insecticidal property of 'Neem' plant is due to the presence of an alkaloid named _____.

2. Answer the following questions : $2 \times 4 = 8$.

- (a) Mention the parts used and uses of the economically important plants.
- (i) Castor (ii) Zinger.
- (b) Write about products and uses of
- (i) Cotton (ii) Jute.
- (c) What are various products obtained from "Soya bean" ?
- (d) Define "Ethnobotany". What is Ethno-taxonomy ?

3. Answer any *three* questions of the following $5 \times 3 = 15$

- (i) Mention botanical names of the plants, parts used and various uses of (i) Henna (ii) Manjistha.

- (ii) What is the source of 'Cocoa' ? Mention the products and uses of Cocoa.
- (iii) Mention the plant parts used and uses of (i) Holarrhena (ii) Andrographis.
- (iv) Write notes on crude drugs and commercial drugs.
- (v) What is centre of origin of crop plants ? Mention different centre of origin of crop plants proposed by NI Vavilov.

4. Answer the following questions : $10 \times 3 = 30$

- (a) What do you mean by 'Green Revolution' ? How does improvement of rice and wheat plays important role in Green Revolution. — Write in detail.

Or

Write notes on the products obtained and their uses of the following plants :

- (i) Turmeric
- (ii) Mustard
- (iii) Cinnamon
- (iv) Clove

- (b) What are non-timber plant resources ? Write giving examples the uses of some non-timber plant resources.

Or

Write in detail about various parts used their uses and products obtained from the following :

- (i) Banana (ii) Mango.

- (c) Define Pharmacognosy. Differentiate Pharmacognosy from Pharmacology. How does the knowledge of Pharmacognosy help in the study of uses of medicinal plants ?

Or

Citing some examples, write in detail how intellectual property rights help in preventing Bio-piracy of traditionally used plant resources.