3 (Sem-6) BOT M 4

2014

BOTANY

(Major)

Paper: 6.4

(Plant Resource Utilization)

Full Marks: 60

Time: 3 hours

The figures in the margin indicate full marks for the questions

1. Fill in the blanks/Answer the following:

1×7=7

- (a) The stimulative effect of tea is due to the presence of ——.
- (b) The aromatic resin 'lal dhuna' is obtained from tree.
- (c) The major alkaloid extracted from catheranthus plant is —.
- (d) Hevea or Para rubber is obtained from the plant —.
- (e) Name the agency of the United Nations established for the Intellectual Property Rights.

- (f) The term 'pharmacognosy' was introduced by ——.
- (g) From which part of the Bixa plant, the dye is extracted?

2. Answer the following:

2×4=8

- (a) Mention the parts used and uses of the economically important plants (i) cinnamon and (ii) turmeric.
- (b) From which part of the plant clove, oil is extracted? What are the uses of clove oil?
- (c) Mention the economic uses of mustard oil.
- (d) Mention some sources of traditional knowledge of ethnomedicinal plant uses.
- 3. Answer any three of the following: $5\times3=15$
 - (a) Mention the purposes of plant introduction.
 - (b) What is 'crop domestication'? Mention the process of domestication of crop plant.
 - (c) Write the definition of ethnobotany.

 Mention the sub-disciplines of ethnobotany.
 - (d) What are various methods of cocoa? Mention their uses.

- 4. (a) Write about botany, plant parts used and various uses of any two of the following:
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- (i) Rauwolfia
- (ii) Catheranthus
- (iii) Azadirachta

Or

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

- (i) Sugarcane
- (ii) Sugar beet
- (b) Describe with examples the classification of plant resources on the basis of their uses.

Or

Write about sources, products and their uses of any two of the following:

- (i) Castor
- (ii) Tea
- (iii) Black pepper
- (c) What do you mean by 'organoleptic evaluation of drugs'? Mention various aspects of organoleptic evaluation of drugs.

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Or

What is IPR (Intellectual Property Rights)? What are different types of IPR? Mention how IPR is helpful in safeguarding large diversity of traditional products with reference to some Indian contexts.

