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PY - 204

B.Pharmacy II Semester Examination, June 2014

Pharmacognosy - I

Time : Three Hours

Maximum Marks : 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each question are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max. 50 words) carry 2 marks, part C (Max. 100 words) carry 3 marks, part D (Max. 400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

1. a) Give the botanical source, family, chemical constituents and therapeutic uses of Tulsi.
- b) Give the botanical source, family, chemical constituents and therapeutic uses of Fennel.
- c) Describe the botanical source and family of following drugs;
  - i) Opium      ii) Vinca      iii) Withania
- d) Briefly discuss the history and current developmental trends of Pharmacognosy.

OR

Describe the basic concepts of Ayurveda.

2. a) Give the altitude required the cultivation of following drugs.
  - i) Tea      ii) Camphor      iii) Cardamom
- b) Give the optimum temperature (in °F) required the cultivation of following drugs.
  - i) Cinchona      ii) Coffee      iii) Tea
- c) Explain the artificial drying methods used for crude drugs.
- d) Describe the factors affecting cultivation of medicinal plants.

OR

Give an exhaustive note on cultivation of medicinal plants in India with an example of Eucalyptus plant.

3. a) Name any four chlorinated hydrocarbons used as insecticides in cultivation of medicinal plants.
- b) Explain the mode of action of following pesticides;
  - i) Carbamates      ii) 3-Amino-1,2,4-triazoles
- c) Give two examples of each of the following insecticides used in post harvesting techniques for medicinal plants;
  - i) Organophosphorus Compounds      ii) Fumigants
  - iii) Inorganic Compounds      iv) Natural Products
- d) Enlist various methods of pest control. Give an exhaustive note on pest control by biological and chemical methods.

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OR

Explain the various parameters of an ideal insecticide used for medicinal plants.

4. a) What is stomatal index?
- b) Give the formula used for the calculation of acceptable residue level (ARL) of pesticide in herbal drugs as per WHO.
- c) Explain the procedure for the determination of total ash value as per WHO.
- d) What is adulteration? Discuss various types of adulteration.

OR

Briefly describe the Lycopodium spore method of drug evaluation.

5. a) Give the biological source, colour, odour and specific gravity of Olive oil.
- b) Give the botanical source, family, chemical constituents and therapeutic uses of Podophyllum.
- c) Give the botanical source, family, chemical constituents and therapeutic uses of Amla and Bahera.
- d) Give an exhaustive note on Kaolin as pharmaceutical aid.

OR

Briefly discuss the systematic pharmacognostic profile of Ginger.

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