



Name :

Roll No. :

Invigilator's Signature :

CS/B.Pharm/SEM-6/PT-610A/2010

2010

ADVANCED PHARMACOGNOSY

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives for any *ten* of the following :

10 × 1 = 10

- i) In Soxhlet extraction generally water is not used as solvent, because
 - a) it's a highly volatile solvent
 - b) it's chemical nature is destructive
 - c) it can destroy the constituents
 - d) it's boiling point is high.
- ii) *Cascara sagrada* contains maximum amount of anthro-quinone glycosides in their
 - a) bark b) leaf
 - c) flower d) fruit.

6433

[Turn over



- iii) Lignin is identified by the stain
- Phloroglucinol + HCl
 - Phloroglucinol + alkali
 - Phloroglucinol + ammonia
 - Sudan red-III.
- iv) In hycopodium spore method, the % purity of powdered ginger is calculated using which of the following equation ?
- $$\frac{N \propto 10 \propto S \propto 94,000}{SMP} \propto 100$$
 - $$\frac{N \propto W \propto 94,000}{S \propto M \propto P} \propto 100$$
 - $$\frac{S \propto M \propto P \propto 94,000}{10} \propto 100$$
 - $$\frac{N \propto S \propto 94,000}{S \propto M \propto P} \propto 100.$$
- v) Which one of the following is not a type of stomata ?
- Moss type
 - Gramineous type
 - Glandular type
 - Dicotyledonous type.
- vi) What do you mean by extractive value ?
- Approximate measure of constituents
 - Approximate measure of inorganic material
 - Ash content of drug
 - None of these.
- vii) What happens to powdered Rhubarb when it is stored in clear glass jars ?
- Changes from brown to greenish
 - Rapidly changes from yellow to reddish colour
 - Changes from yellow to colourless
 - Does not effect at all.



viii) R_f value in chromatography means

- a) relative to front b) refraction factor
- c) readymade factor d) record factor.

ix) What is silicagel GF ?

- a) Silicagel G without binder
- b) Silicagel G with binder
- c) Silicagel G with binder and fluorescent indicator
- d) Silicagel G without binder and fluorescent indicator.

x) TLC plates are activated at 105° for

- a) 45 min b) 60 min
- c) 15 min d) 30 min.

xi) Volatile oils are obtained by of the plant parts containing the oil.

- a) steam distillation b) steam evaporation
- c) both of these d) none of these.

xii) What do you mean by the term 'glabrous' ?

- a) Free from hairs b) Long hairs are present
- c) Surface is hairy d) Dotted with oil glands.



GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following.

3 × 5 = 15

2. Write a short note on phytochemical screening.
3. What is super critical fluid extraction ?
4. Explain the principle of thin layer chromatography.
5. Write a short note on maceration.
6. What are the factors affecting herbal quality ?

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.

3 × 15 = 45

7. Discuss about the different indigenous systems of medicine with special emphasis on Ayurveda. 15
8. What is ethnobotany ? Write the role of ethnobotany in herbal drug evaluation. Describe the impact of ethnobotany in traditional medicine. 15
9. a) What do you mean by Adulteration ? Explain various types of adulterants used for herbal drugs. 1 + 7
b) What are the various primary and secondary factors to be considered for deterioration of herbal drugs ? 7
10. What do you mean by extraction ? Write the various factors affecting extraction of Herbal Drugs. Give the different procedure for extraction of Herbal Drugs. 1 + 6 + 8
11. Write short notes on the following : $2 \times 7\frac{1}{2}$
 - a) Continuous not percolation method
 - b) Various methods of drug evaluation.