

First Year Pharmacy

PHARMACOGNOSY

(103)

Time : Three Hours

Maximum Marks : 80

Note : i) Attempt total six questions. Question No.1 is compulsory.
From the remaining questions attempt any five.

ii) Illustrate your answer with neat sketches wherever necessary.

iii) Answer each next main question on a new page.

1. Attempt any five.

5×2=10

a) Give common name of following :

i) Turmeric

ii) Cardamon

b) Write which part of plant used as drug.

i) Ginger

ii) Clove

c) Define following :

i) Stomatal index

ii) Vein islets number

d) Write the use of following :

i) Asafoetida

ii) Arjun

e) Write main chemical constituents of

i) Vinca

ii) Belladonna

f) Give the name of class of drug which give following test positive

i) Match stick test

ii) Molisch's test

g) Match the following :

- | | |
|-----------------------|--------------------|
| i) Antileprotic Agent | 1) Papaya |
| ii) Antimalarial | 2) Ergot |
| iii) Oxytocics | 3) Chaulmoogra oil |
| iv) Enzyme | 4) Cinchona |

2. Attempt any four of the following :

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- Define pharmacognosy and write the scope of pharmacognosy.
- Differentiate between organised and unorganised drug.
- Write various types of evaluation with brief notes on physical evaluation.
- Write biological source, morphological character, chemical constituent and use of following :
 - Aloe
 - Rauwolfia
- How various types of alkaloids are extracted from crude drug? Give flow charts of steps involved.

3. Attempt any four.

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- Write various system of classification of Crude drug. Discuss morphological classification.
- Define Adulteration. What are various methods used for adulteration of drug?
- Differentiate between pale catechu and black catechu.
- Write biological source, morphological character, chemical constituent and use of following :
 - Fennel
 - Cannabis
- Mention the fibres commonly used in surgical dressing. Explain any one of them.

4. Attempt any four.

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- a) Enlist the sequence of pharmacognostic study.
- b) Differentiate between Alexandrian senna and Indian senna.
- c) Draw a well labelled diagram of T.S. of any one of the following:
 - i) Datura Leaf
 - ii) Cinchona Bark
- d) Give biological source, family, morphological character, chemical constituents and use of following :
 - i) Ergot
 - ii) Ipecacuanha
- e) Write brief notes on Sharkliver oil or Amla.

5. Attempt any four.

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- a) Describe the collection and preparation of opium for the market.
- b) Draw well labelled diagram of T.S. of any one
 - i) Nux. vomica
 - ii) Clove
- c) Write various chemical identification test of glycoside.
- d) Write biological source, family, morphological character, chemical constituent, use of following :
 - i) Gokhru
 - ii) Neem
- e) Write pharmaceutical application of Kaolin and Beeswax.

6. Attempt any four.

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- a) Describe the various pharmacopoeial standard and their significance.
- b) Differentiate between absorbent and non absorbent cotton.
- c) Draw well labelled diagram of T.S. of any one of following :
 - i) Ginger
 - ii) Senna

- d) What are pharmaceutical application of perfumes and flavouring agent with example?
- e) Write down isolation procedure for volatile oil.

7. Attempt any four.

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- a) Write brief notes on ayurvedic system of medicine.
- b) Describe method of preparation of silk.
- c) Differentiate between *Digitalis purpurea* and *Digitalis lanata*.
- d) Mention the identification test for terpenoids.
- e) Write name of 3 alkaloids and 3 glycoside with their family.

8. Attempt any four.

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- a) Write brief notes on crude drug obtained from mineral origin.
- b) Classify alkaloid with example.
- c) Differentiate between Gum and Resin.
- d) Write short notes on Garlic.
- e) Define Enzyme. Give brief account on Diastase and Yeast.

