

**GOVERNMENT OF KARNATAKA**  
**BOARD OF EXAMINING AUTHORITY**  
**D. Pharm. Part – I Examinations (ER-91), June - 2019**  
**PHARMACOGNOSY**

Time : 3 Hrs

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory

**SECTION-A**

4 X 10 =40

- 1) Define glycosides. Write a note on Cardiac glycosides.
- 2) What are Diuretics? Write the Biological Source, Chemical Constituents and uses of any TWO diuretic drugs.
- 3) Explain cultivation and collection of RAUWOLFIA.
- 4) Give the source and users of drugs containing following active constituents.  
 a) Cephaline b) Ricinoleic acid c) Piperine d) Curcumin
- 5) What are sutures? Give the method of preparation of surgical catgut.
- 6) Write a note on the general chemical tests for Black and Pale Catechu.
- 7) Define Extractive value. Mention different types with their significance.
- 8) Define the following: a) Pharmacognosy b) Drug adulteration.
- 9) Define and give examples for following users:  
 a) Carminatives b) Antidiabetics c) Antitumors d) Astringents.
- 10) Write a note on vitamins.
- 11) Write and explain chemical tests for HONEY and GELATIN (any two of each drug).
- 12) Explain the morphology of EPHEDRA and SENNA with diagrams.
- 13) Differentiate plant fibres and animal fibres with suitable examples.

**SECTION-B**

- 14) a) Mention various system of classification of crude drugs. Explain any TWO methods of classification of crude drugs.

b) Define drug evaluation. Explain physical evaluation. 2+6+2+4

**OR**

- a) Explain Morphology and microscopy of CORIANDER with neat labeled diagrams.
  - b) Write a note History of Pharmacognosy. 2+6+6
- 15) a) Write a note on volatile oils.
  - b) Explain the Pharmacognosy of ERGOT including its life cycle. 5+8=13
- 16) What are pharmaceutical aids? Explain in detail any 3 drugs used as pharmaceutical aids. 13
- 17) a) Explain Homeopathic system of medicine.
  - b) Write a note on Antileprotics.
  - c) Describe solanaceous drugs. 5+4+4

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D3300518

GOVERNMENT OF KARNATAKA  
(BOARD OF EXAMINING AUTHORITY)  
D. PHARM. PART – I EXAMINATIONS (ER-91), MAY-2018  
PHARMACOGNOSY

Time: 3Hours

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory.

SECTION – A

4 X 10 = 40

1. Write the differences between ORGANISED and UNORGANISED drugs with suitable examples.
2. Define Ash Value. Mention the different types of Ash Values with their significance.
3. Give the Source and Uses of Drugs containing following active constituents  
a. Eugenol b. Reserpine c. Quinine d. Aconitine
4. Describe the Extraction methods of Volatile Oils.
5. Describe the Following Tests.  
a. Keller Killiani test b. Gold Beater's skin
6. What are Diuretics. Give TWO examples with Biological source.
7. Give the Name, Biological source and Uses of any one drug belonging to the following families  
a. Piperaceae b. Loganiaceae c. Rubiaceae d. Zingiberaceae
8. Describe the Cultivation and Collection of DIGITALIS
9. Explain the SIDDHA system of medicine.
10. What are Antileprotic drugs? Give an example. Write its Biological source and Chemical constituents.
11. Give the Source and use of Papain and Diastase.
12. Give the chemical tests to differentiate Black catechu from Pale Catechu.
13. Explain the Chemical classification of crude drugs with examples.

SECTION- B

14. a. What are Alkaloids? Classify with examples  
b. Write the Identification tests and Extraction methods of Alkaloids 7+7  
OR  
Give the Morphological and Microscopical characters of Clove Flower bud with the help of neat labelled diagram 6+8
15. a. Define Pharmacognosy. Explain History of Pharmacognosy  
b. Write the preparation and uses of WOOL and ABSORBENT COTTON 6+7
16. a. Define and mention the methods of Drug Evaluation  
b. Explain Chemical and Microscopical evaluation 4+9
17. Discuss the Pharmacognostic study of TWO Antirheumatic drugs 6.5+6.5

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D3301216

**GOVERNMENT OF KARNATAKA**  
**(BOARD OF EXAMINING AUTHORITY)**

D. Pharm. Part – I Examinations (ER-91), December -2016  
**PHARMACOGNOSY**

Time : 3 Hrs

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory

**SECTION – A**

01. What are volatile oils? Classify them with examples. 4 X 10 = 40
02. Name two antidiabetic drugs with their official source and important active principles.
03. Write the preparation and uses of absorbent cotton.
04. Write the official source, chemical constituents and uses of  
a) Gokhru b) Senna c) Vasaka d) Dioscorea.
05. Differentiate the morphological characters of senna and digitalis along with diagram.
06. Define a) Gum b) Mucilage c) Laxative d) carminatives.
07. Name a drug which has the following active constituents along with their uses  
a) Brucine b) Vitamin C c) Linalool d) Quinine
08. Write a note on saponin glycosides.
09. Explain biological evaluation of crude drugs.
10. Write the morphology of Ginger with diagram and uses.
11. Write chemical tests for aloe and agar.
12. Write briefly history of Pharmacognosy.
13. Name any two drugs which are used as flavoring agents along with their official source and active constituents.

**SECTION – B**

14. Describe microscopical characters of fennel and cinchona with neat labeled diagram 8 + 6
- OR**
- a) Define and classify pharmaceutical aids with examples. 6 + 8
- b) Write a detailed note on glycosides. 6 + 7
15. Write the cultivation and collection of senna and opium. 3 + 10
16. a) Classify crude drugs. 3 + 10
- b) Explain morphological and pharmacological classification of crude drugs with advantages and disadvantages. 7 + 6
17. a) Define and Classify alkaloids with examples. 7 + 6
- b) Write general properties of alkaloids and general tests to identify alkaloids. 7 + 6

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D3300120

GOVERNMENT OF KARNATAKA  
(BOARD OF EXAMINING AUTHORITY)

D. Pharm. Part – I Examinations (ER-91), January-2020

PHARMACOGNOSY

Time: 3Hours

Max. Marks: 80

Note: Answer any TEN questions from Section – A and THREE from Section – B including Question No. 14, which is compulsory

SECTION – A

4 x 10 = 40

- Name of the drug containing following active principle, write its B.S and uses  
a) Quinine b) Vitamin-C c) Catechin d) Vincristine
- Give the Chemical tests for Tragacanth and Benzoin
- Write briefly history of Pharmacognosy.
- Describe the following tests:-  
a) Modified Borntragger's test  
b) Fiehe's test
- Define Resins. Give the classification of Resins with examples.
- Write the B. S, family and therapeutic uses of Papain and Diastase.
- Describe cultivation and Collection of Senna.
- Differentiate plant fibres and animal fibres with examples.
- Explain basic principles involved in Ayurvedic system of medicine.
- Give one example for each of the following with chemicals constituents and uses.  
a) Dried latex b) Dried Bark c) Kernel d) Fungus
- Explain Pharmacological Classification with examples.
- Write the Morphological of Coriander and Nuxvomica with neat labelled diagram.
- Give the B. S and method of preparation and uses of Silk.

SECTION –B

- A. a) Define Drug evaluation. Mention different methods of Evaluation.  
b) Define Alkaloids. Write Properties and Classification of alkaloids

(2 + 3 + 2 + 2 + 5)

OR

- B. a) Write a note on the perfumes and flavouring agents.  
b) Explain the Morphology and microscopy of Cinnamon bark with neat labelled diagram. (6 + 8)
- a) Write a note on Terpenoids. (4 + 9)  
b) Explain Pharmacognosy of the two Diuretic.
- a) Cultivation and collection of Digitalis  
b) Write a Chemicals tests for Cardiac Glycosides and dysenteries  
b) Explain Organoleptical evaluation. (4 + 5 + 4)
- a) Chemicals tests for Black and Pale Catechu  
b) Write a note on Antiseptics. (4 + 5 + 4)  
c) Gums and Mucilages

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**GOVERNMENT OF KARNATAKA**  
**(BOARD OF EXAMINING AUTHORITY)**  
 D. Pharm. Part – I Examinations (ER-91), APRIL 2016  
**PHARMACOGNOSY**

Time: 3Hours

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory

**SECTION – A****4 X 10=40**

1. Give the name and active constituents of any one drug belonging to the following category  
 a) Cardiotoxic b) Antileprotic c) Antitussive d) Flavouring agent
2. Define and classify Tannins with suitable examples.
3. Explain morphological classification of Crude drugs with suitable examples.
4. Write a brief note on scope of Pharmacognosy.
5. Explain the following tests a) Combined Umbelliferone b) Modified Borntrager's test
6. Write notes on Diastase and Papain.
7. Write the source, preparation and uses of Cotton.
8. Describe the morphology with a neat labeled diagram for a) Nuxvomica b) Fennel
9. Write the name and active constituents of any one drug belonging to the following families  
 a) Papavaraceae b) Rutaceae c) Apocyanaceae d) Rubiaceae
10. Describe life cycle of Ergot.
11. Give the biological source and therapeutic effect for the following  
 a) Shankhpushpi b) Colchicum c) Shatavari d) Liquorice
12. Write the differences between Black catechu and Pale catechu.
13. Write the biological source and chemical constituents for Ashwagandha and Cannabis.

**SECTION – B**

14. Define evaluation. Name the different methods of evaluation. Discuss morphological and microscopical evaluation with suitable examples. **2+2+5+5**

**OR**

- a) What is Adulteration? Write a brief note on different types of Adulteration
- b) With the help neat labelled diagram, describe the microscopy of Cinnamon bark. **7+7**
15. Write short notes on a) Volatile Oils b) Resins **7+6**
16. Write the method of cultivation, collection and preparation of Opium and Digitalis **7+6**
17. Write short notes  
 a) Natural Pesticides b) History of Pharmacognosy c) Pharmaceutical aids **4+5+4**

D3301215

GOVERNMENT OF KARNATAKA  
(BOARD OF EXAMINING AUTHORITY)

D. Pharm. Part – I Examinations (ER-91), December-2015

PHARMACOGNOSY

Time : 3Hours

Max. Marks: 80

Note: Answer any **TEN** questions from **Section – A** and **THREE** from **Section – B** including Question No. 14, which is compulsory.

SECTION – A

4 X 10 = 40

1. Give one example for each of following write their biological source and uses.  
a) Rhizome b) Fungus c) Kernel d) Latex
2. Name a drug which has the following constituents  
a) Emetine b) Glycyrrhizin c) Nicotine d) Hydnocarpic acid
3. Name any two antiseptic drugs and give its biological source, family, chemical constituents and uses.
4. What are resins? Classify them with examples.
5. Give the difference between essential oil and fixed oils.
6. Name a drug which is used as the following along with their source  
a) Colouring agent b) Diuretics c) Anti-diabetics d) Antihypertensive
7. Describe the morphological characters of Ginger and Senna.
8. Write the chemical constituents and uses of the following drugs  
a) Aconite b) Ispagulla c) Shatavari d) Amla
9. Write the biological source, family, chemical constituents and uses of Tolu balsam and Honey.
10. Write a note on Pharmacopoeial standards of purity of crude drugs.
11. Give the identification tests for silk and wool.
12. Name any two Pharmaceutical Aids and give its biological source, family, chemical constituents and uses.
13. Name any two crude drugs containing anthracene glycosides and quinoline alkaloids and give its biological source and uses.

SECTION – B

14. Describe the anatomical characters of clove and fennel with the help of a neat labeled diagram.

7+7

OR

15. Write notes on a) Natural pesticides b) Terpenoids c) Biological evaluation  
16. Give the chemical tests for a) Alkaloids b) Cardiac glycosides c) Honey  
17. Define and explain a) Vein-islet number b) Foreign organic matter c) Ash value d) Moisture content e) Stomatal number f) Adultration.

7+7

4+4+5

3+6+4

2+2+2+2+3

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D3301217

GOVERNMENT OF KARNATAKA  
(BOARD OF EXAMINING AUTHORITY)

D. PHARM. PART – I EXAMINATIONS (ER-91), DECEMBER -2017  
PHARMACOGNOSY

Time: 3Hours

Max. Marks: 80

Note: Answer any TEN questions from Section – A and THREE from Section – B including Question No. 14, which is compulsory

SECTION – A

4 X 10 = 40 Marks

1. Define and write Historical development of Pharmacognosy.
2. Explain Chemical classification of crude drugs with merits and demerits.
3. Differentiate Organised and Unorganised Crude drugs with examples.
4. Mention TWO crude drugs containing Gums and Mucilages.
5. Give TWO examples each for LATEX and RHIZOME and write their uses.
6. Name TWO crude drugs belonging to APOCYANACEAE and LILIACEAE along with their Active constituents.
7. Give the Official Source and Active constituents of BENZOIN and GARLIC
8. Mention TWO Carminatives with Biological source and Chemical constituents
9. Give TWO identification tests for AGAR
10. Give the name and active ingredients of any ONE crude drug belonging to following category a. Hypolipidemic b. Purgative c. Emetic d. Expectorant
11. Explain a. Keller Kiliani test b. Combined Umbelliferone test
12. Name the Bark showing sclereids/stone cells with Biological source, Active constituents and uses.
13. Give the Source and Method of Preparation of Adsorbent Cotton

SECTION-B

14. a. Define Tannins. Classify them with examples. Write the methods of extraction of tannins  
b. Give the life cycle of ERGOT 7+7=14

OR

Explain Physical, Chemical and Biological Evaluation of Crude Drugs 6+4+4=14

15. a. Define i. Palisade Ratio ii. Vein Islet Number iii. Stomatal Number  
b. Define Adulteration and give the different types of Adulteration

6+7=13

16. Explain the Morphology and Microscopy of GINGER and CLOVE

6+7=13

17. Write short notes on a. Pharmaceutical Aids b. Antidiabetic Drugs

6+7=13

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D3300119

**GOVERNMENT OF KARNATAKA**  
**(BOARD OF EXAMINING AUTHORITY)**  
D Pharm. Part- I Examinations (ER-91), January 2019  
**PHARMACOGNOSY -I**

Time : 3 Hours

Max Marks: 80

Note: Answer any **TEN** questions from **Section A** and **THREE** questions from **Section B**  
**Question No 14** is compulsory.

**SECTION - A**

4 x 10=40

1. Define and classify Volatile oils with suitable examples.
2. Give the source and uses of drugs containing the following active principles.  
a) Morphine    b) Zingiberene    c) Glycyrrhizine    d) Vitamin C.
3. Write the Biological source, chemical constituents and uses of Papain.
4. Explain Morphological classification of crude drugs with suitable examples.
5. Describe the cultivation and preparation of Rauwolfia.
6. Write the chemical tests for Agar and Gelatin.
7. Give one examples for each of following with their uses and constituents.  
a) Dried juice    b) Dried latex    c) Seed    d) Bark
8. Write a note on Physical evaluation.
9. Differentiate between Black catechu and Pale catechu.
10. Write a note on Ayurveda.
11. Give the botanical source and chemical constituents of Aconite and Ipecac.
12. Explain the following chemical tests.    a) Borntragers's test    b) Fiehe's test.
13. Describe the Morphology of Senna and Cinchona with neat labelled diagram.

**SECTION - B**

14. a) Define Alkaloids. Write the properties and classification of alkaloids.  
b) Describe the microscopy of Datura with neat labeled diagram    (2+2+3+7 =14)  
OR  
a) Write a note on perfumes and flavouring agents.  
b) Write a note on Antidiabetic drugs.    (7+7 =14)
15. Write note on a) Natural fibres used in surgical dressings. b) Antirheumatics    (7+6 =13)
16. a) Define Pharmacognosy. Write scope of pharmacognosy.  
b) Define Glycosides. Give classification and extraction method of glycosides.    (2+4+2+3+2 =13)
17. Write short note on    a) Cardiotonics    b) Antitussives  
c) Cultivation and preparation of opium.    (4+4+5 = 13)

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