

[KX 809]

SEPTEMBER 2010

Sub. Code: 3809

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION

(Regulations 2008-2009)

(Candidates admitted from 2008-2009 onwards)

SECOND YEAR

PAPER III – PHARMACOGNOSY AND PHYTO PHARMACEUTICALS

Q.P. Code: 383809

Time: Three Hours

Maximum: 70 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. What are Volatile oils?

Give example for Phenol volatile oil.

Explain about Pharmacognostical characters of any one of the drugs.

2. Write in detail about Insecticides.

II. Write notes on:

(6 x 5 = 30)

1. Types of Adulteration.

2. Isapgol.

3. Auxins.

4. Pharmacological classification.

5. Jute.

6. Castor Oil.

[KY 809]

MAY 2011

Sub. Code: 3809

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION

(Regulations 2008-2009)

(Candidates admitted from 2008-2009 onwards)

SECOND YEAR

PAPER III – PHARMACOGNOSY AND PHYTO PHARMACEUTICALS

Q.P. Code: 383809

Time: Three Hours

Maximum: 70 marks

Answer ALL questions

I. Elaborate on:

(2 x 20 = 40)

1. Give a detailed account on plant classification.
2. Discuss in detail about methods of cultivation, collection, drying and processing.

II. Write notes on:

(6 x 5 = 30)

1. Definition and scope of pharmacognosy.
2. Morphological characters of cinchona.
3. Write a note on various methods of extraction of fixed oils.
4. Write the names of plant fibers and explain about absorbent cotton.
5. Write a note on pectin.
6. Write the source, active constituents and uses of digitalis.

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**SECOND YEAR****PAPER III – PHARMACOGNOSY AND PHYTO PHARMACEUTICALS***Q.P. Code: 383809***Time: Three Hours****Maximum: 100marks****Answer ALL questions in the same order.****I. Elaborate on :**

Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|--|----|---------|----|
| 1. Define adulteration and write a detailed note on different methods of adulteration of crude drugs. | 17 | 40 min. | 20 |
| 2. Explain in detail about the source, chemistry and method of extraction of lipids. Write in detail about any two lipid containing drugs. | 17 | 40 min. | 20 |

II. Write notes on :

- | | | | |
|---|---|---------|---|
| 1. Define the term crude drugs and explain the classification of crude drugs with examples. | 4 | 10 min. | 6 |
| 2. Define and classify oils with examples and write the method of preparation of medicinal castor oil. | 4 | 10 min. | 6 |
| 3. Write in detail about cell wall constituents and cell inclusions with their functions. | 4 | 10 min. | 6 |
| 4. Write the source, constituents, chemical tests and the medicinal uses of the following: (i) Pyrethrum (ii) Tragacanth. | 4 | 10 min. | 6 |
| 5. Explain the methods of cultivation of crude drugs with examples. | 4 | 10 min. | 6 |
| 6. Define the term proteins, classify them and write a note on method of analysis of proteins with examples. | 4 | 10 min. | 6 |
| 7. Draw neat labeled diagnostic characters of fruit drugs and explain the types with examples. | 4 | 10 min. | 6 |
| 8. What are fibres? Classify them. Write in detail about the absorbent cotton and differentiate from raw cotton. | | | |
| 9. Enumerate the history and scope of Pharmacognosy. | 4 | 10 min. | 6 |
| 10. Write the source, confirmatory chemical tests and uses of (i) Carbohydrates (ii) Lipids (iii) Proteins. | 4 | 10 min. | 6 |

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**SECOND YEAR****PAPER III – PHARMACOGNOSY AND PHYTO PHARMACEUTICALS***Q.P. Code: 383809***Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|---|----|---------|----|
| 1. Briefly discuss the various system of classification of crude drugs from natural origin with examples? | 17 | 40 min. | 20 |
| 2. Write the pharmacognosy of any two fruit drugs Which you have studied? | 17 | 40 min. | 20 |

II. Write notes on :

- | | | | |
|--|---|---------|---|
| 1. Describe the macroscopy and microscopy of senna with a note on its adulterants? | 4 | 10 min. | 6 |
| 2. Describe the historical background of pharmacognosy? | 4 | 10 min. | 6 |
| 3. Explain about the various types of Extraction of volatile oils? | 4 | 10 min. | 6 |
| 4. Give a note on current and upcoming Scope of pharmacognosy? | 4 | 10 min. | 6 |
| 5. Write a note on preparation process of cotton and silk? | 4 | 10 min. | 6 |
| 6. Elaborate the Basic principle of ayurvedic system of medicine? | 4 | 10 min. | 6 |
| 7. Write a note on any one oil obtained from marine animal source? | 4 | 10 min. | 6 |
| 8. How clove is collected, what are its adulterants, how are they detected? | 4 | 10 min. | 6 |
| 9. Detail study of methods of cultivation of medicine plants? | 4 | 10 min. | 6 |
| 10. Discuss the method of preparation of starch from different source. | 4 | 10 min. | 6 |

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION**SECOND YEAR****PAPER III – PHARMACOGNOSY AND PHYTO PHARMACEUTICALS***Q.P. Code: 383809***Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

Pages (Max.)	Time (Max.)	Marks (Max.)
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- | | | | |
|--|----|---------|----|
| 1. Explain the pharmacognosy of any two crude drugs from carbohydrates? | 17 | 40 min. | 20 |
| 2. Elaborate the detail study of medicinal value drugs from Natural pesticide? | 17 | 40 min. | 20 |

II. Write Short Notes :

- | | | | |
|--|---|---------|---|
| 1. Discuss about the Merits and demerits of cultivation of medicinal plants? | 4 | 10 min. | 6 |
| 2. Biological Source, preparation and identification tests of the drugs with following uses:
a) Used in deficiency of Vitamin- A
b) emulsifying agent. | 4 | 10 min. | 6 |
| 3. Briefly describe the use of crude drugs in the indigenous system of medicine? | 4 | 10 min. | 6 |
| 4. Write about the classification of proteins with examples? | 4 | 10 min. | 6 |
| 5. Write detail on pharmacognosy of honey? | 4 | 10 min. | 6 |
| 6. Demonstrate the Pharmacognostic study of Acacia? | 4 | 10 min. | 6 |
| 7. Write briefly about the Storage condition of crude drugs? | 4 | 10 min. | 6 |
| 8. What are fibers? Write detail about any one plant fiber? | 4 | 10 min. | 6 |
| 9. Explain microscopic characteristics, cultivation, collection, of the following drugs: Clove, Isapgol. | 4 | 10 min. | 6 |
| 10. Give details of chemical constituents, Chemical tests, uses of the following drugs: Cinnamon, pectin. | 4 | 10 min. | 6 |

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION

SECOND YEAR

PAPER III – PHARMACOGNOSY AND PHYTO PHARMACEUTICALS

Q.P. Code: 383809

Time: Three Hours

Maximum: 100 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Define Fibers, classify with examples and write a detailed account on plant fibers used in surgical dressing and related products.
2. Define and classify proteins, write a note on chemistry, method of extraction, method of analysis of proteins, write a note on any one protein containing drug.

II. Write notes on:

(10 x 6 = 60)

1. Explain the general microscopical features of leaf drug with a neat labeled microscopical diagram of the characteristic features.
2. Write a note on natural pesticides with examples and give details about any one natural pesticides.
3. Write a note on plant fibers used in surgical dressings.
4. Enumerate the history and scope of Pharmacognosy.
5. Write a short note on cell constituents with their different functions.
6. Explain about the chemotaxonomy with suitable examples.
7. Compare & contrast volatile oils and fixed oils with examples.
8. Write in detail about any two carbohydrate containing drugs.
9. Write a note on chemistry of lipids, Explain any one lipid containing drug.
10. Explain the morphological and pharmacological classification of crude drugs with examples.

[LD 809]

OCTOBER 2013

Sub. Code: 3809

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION

SECOND YEAR

PAPER III – PHARMACOGNOSY AND PHYTO PHARMACEUTICALS

Q.P. Code: 383809

Time: Three Hours

Maximum: 70 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. Give a detailed account on various methods of cultivation, collection, processing of crude drugs.
2. Define and classify carbohydrates with examples. Give details about any three carbohydrate containing drugs.

II. Write notes on:

(10 x 3 = 30)

1. Brief note on cell inclusions.
2. Isapgol.
3. Definition & scope of pharmacognosy.
4. Method of analysis of proteins.
5. Write a difference between volatile oil & fixed oil.
6. Cotton.
7. Powder microscopic characters of any one leaf drug.
8. General chemical tests for alkaloids.
9. Write a note on chemistry of lipids.
10. Define adulteration & mention the types of adulteration.

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION

SECOND YEAR

PAPER III – PHARMACOGNOSY AND PHYTO PHARMACEUTICALS

Q.P. Code: 383809

Time: Three Hours

Maximum: 70 marks

Answer All questions

I. Elaborate on:

(2 x 20 = 40)

1. What are volatile oils? How are these classified?
Write their properties, methods of extraction and uses.
2. Discuss the importance of microscopical studies for the evaluation of crude drugs with suitable examples and diagrams.

II. Write notes on:

(10 x 3 = 30)

1. Write a brief note on scope of Pharmacognosy.
2. Discuss the methods of extraction of fixed oils.
3. How are proteins detected by chemical test?
4. Write the source, preparation and uses of absorbent cotton.
5. What are adulterants? Mention few adulterants in the adulteration of crude drugs.
6. Name few cell inclusions. Write the various types of calcium oxalate crystals occur in plant cell.
7. Classify carbohydrates with suitable examples.
8. What are the advantages and disadvantages of cultivation?
9. Write a note on cell wall constituents.
10. Write the source, constituents and uses of any one fixed oil obtained from animal sources.

[LF 809]

OCTOBER 2014

Sub. Code: 3809

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION

(2009-2010 Regulation)

SECOND YEAR

PAPER III – PHARMACOGNOSY AND PHYTO PHARMACEUTICALS

Q.P. Code: 383809

Time: Three Hours

Maximum: 70 marks

Answer All questions

I. Elaborate on:

(4 x 10 = 40)

1. Describe the chemistry, extraction methods, and methods of analysis of proteins.
Write a note on any one drug containing protein.
2. Write the cultivation, collection, biological source, chemical constituents and adulterants of any two drugs from volatile oil.
3. Definition, History and scope of Pharmacognosy.
4. What are fibres? Write about plant fibres used in surgical dressings.

II. Write notes on:

(6 x 5 = 30)

1. Write the source, chemical constituents, uses of shark liver oil and castor oil.
2. Plant growth regulators.
3. Explain in detail about natural pesticides.
4. Give the identification test for agar and tragacanth.
5. Write the powder microscopical characteristics of any one bark drug.
6. Write the morphological and chemical classification of crude drugs with examples.

DOCTOR OF PHARMACY (PHARM. D) DEGREE EXAMINATION

(2009-2010 Regulation)

SECOND YEAR

PAPER III – PHARMACOGNOSY AND PHYTO PHARMACEUTICALS

Q.P. Code: 383809

Time: Three Hours

Maximum: 70 marks

Answer All questions

I. Elaborate on:

(4 x 10 = 40)

1. Define lipids. Write a note on chemistry, method of analysis of lipids.
2. Discuss the different methods of cultivation used for propagating medicinal plants.
3. Describe the microscopical characters, chemical constituents, chemical tests and uses of any one crude drug from carbohydrates.
4. Explain the different methods of adulteration of crude drugs.

II. Write notes on:

(6 x 5 = 30)

1. Write the classification of volatile oil with example and explain any one drug.
2. Write a note on study of cell wall constituents.
3. Explain powder microscopical study of any two leaf drugs.
4. Discuss the method of preparation of starch from different sources.
5. Brief note on Absorbent cotton.
6. Write an account of storage condition of crude drugs.

[LH 809]

OCTOBER 2015

Sub. Code: 3809

PHARM. D DEGREE EXAMINATION

(2009-2010 Regulation)

SECOND YEAR

PAPER III – PHARMACOGNOSY AND PHYTOPHARMACEUTICALS

Q.P. Code : 383809

Time: Three Hours

Maximum: 70 marks

Answer ALL questions

I. Elaborate on :

(4 x 10 = 40)

1. How will you evaluate the adulteration by macroscopically, microscopically and physically?
2. Write the factors affecting the cultivation of crude drugs.
3. Write the difference between the Acacia and Tragacanth.
4. Write notes on cell wall and cell inclusions.

II. Write notes on :

(6 x 5 = 30)

Write notes on the following:

1. Honey.
2. Gelatin.
3. Hydrous wool fat.
4. Insect flower.
5. Systematic study of crude drugs.
6. Any one anti-xerophthalmic oil.

[LI 809]

APRIL 2016

Sub. Code: 3809

PHARM. D DEGREE EXAMINATION
(2009-2010 Regulation)
SECOND YEAR
PAPER III - PHARMACOGNOSY AND PHYTOPHARMACEUTICALS

Q.P. Code : 383809

Time : Three hours

Maximum : 70 Marks

I. Elaborate on :

(4 x 10 = 40)

1. Describe the source, Macroscopy, Microscopy and uses of Senna and Cinnamon Bark.
2. Write in detail about storage of Crude Drugs.
3. Write the Pharmacognosy of any two fruit drugs which you have studied.
4. Explain in detail about Natural Pesticides.

II. Write notes on :

(6 x 5 = 30)

1. Isapgol.
2. Jute.
3. Morphological characters of Cinchona Bark.
4. Source, constituents, chemical test and medicinal uses of Ginger.
5. Nuxvomica Seed.
6. Agar.

[LJ 809]

OCTOBER 2016

Sub. Code: 3809

PHARM. D DEGREE EXAMINATION
(2009-2010 Regulation)
SECOND YEAR
PAPER III - PHARMACOGNOSY AND PHYTOPHARMACEUTICALS

Q.P. Code : 383809

Time : Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Describe the importance of soil fertility, irrigation, altitude and Bio-pesticide in plant cultivation.
2. Discuss about the taxonomical, morphological and pharmacological classification of Crude Drugs with suitable examples.
3. Define Crude Drugs. Discuss in detail about Pharmacognosy of any two Crude Drugs.
4. Define and classify Proteins. Explain its chemistry and method of analysis.

II. Write notes on:

(6 x 5 = 30)

1. Adulterants used in Cinnamon Bark.
2. General methods of extraction of Lipids.
3. Neem and Pyrethrum.
4. Differentiate between organised and unorganised drugs.
5. Honey and Starch.
6. Give detail about the common plant fibre used as surgical dressings.

[LK 809]

MAY 2017

Sub. Code: 3809

PHARM. D DEGREE EXAMINATION
(2009-2010 Regulation)
SECOND YEAR
PAPER III - PHARMACOGNOSY AND PHYTOPHARMACEUTICALS

Q.P. Code: 383809

Time: Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Give a detailed account on various methods of cultivation, collection and processing of crude drugs.
2. Define carbohydrates. Give details about any two carbohydrate containing drugs.
3. Classify of plant fibres and explain two important plant fibres used in surgical dressing.
4. Define adulteration. Give a detailed account on different methods of adulteration of crude drugs with suitable examples.

II. Write notes on:

(6 x 5 = 30)

1. Define natural pesticides and explain about pyrethrum.
2. Write a brief note on storage of crude drugs.
3. Definition and scope of pharmacognosy.
4. Preparation of medicinal castor oil.
5. Write a difference between volatile oil and fixed oil with examples.
6. Describe macroscopy and microscopy of any one leaf drug.

[LL 809]

OCTOBER 2017

Sub. Code: 3809

PHARM. D DEGREE EXAMINATION
(2009-2010 Regulation)
SECOND YEAR
PAPER III - PHARMACOGNOSY AND PHYTOPHARMACEUTICALS

Q.P. Code : 383809

Time : Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Brief note on natural pesticides and explain in detail about any two natural pesticides.
2. Describe the chemistry and methods of analysis of proteins. Write note on any one protein containing drug.
3. How will you evaluate the adulterations in crude drugs?
4. Define volatile oil. Explain any two volatile oil containing fruit drugs.

II. Write notes on:

(6 x 5 = 30)

1. Identification tests for carbohydrates and proteins.
2. Write the names of plant fibres with sources and explain about absorbent cotton.
3. Discuss the methods of preparation of starch from various sources.
4. Macroscopy and powder microscopic characters of any one flower drug.
5. Explain the pharmacological and chemotaxonomy classification of crude drugs.
6. Write the source, constituents and medicinal uses of following:
a) Agar b) Isapgol c) Tragacanth

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LM 809]

MAY 2018

Sub. Code: 3809

PHARM. D DEGREE EXAMINATION
(2009-2010 Regulation)
SECOND YEAR
PAPER III - PHARMACOGNOSY AND PHYTOPHARMACEUTICALS

Q.P. Code: 383809

Time: Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Discuss about the different methods of classification of crude drugs along with their advantages and disadvantages.
2. Explain briefly about factors affecting cultivation of medicinal plants.
3. Write the source, preparation, chemical constituents, identification tests and uses of absorbent cotton.
4. Definition, classification and methods of analysis of protein with examples. Write the source, preparation, chemical constituents, chemical tests and uses of Gelatin.

II. Write notes on:

(6 x 5 = 30)

1. Write briefly about processing and storage of crude drugs.
2. Write in details about cell wall constituents.
3. Write the method of preparation, chemical constituents and uses of hydrous wool fat.
4. Differentiate cassia bark from Ceylon cinnamon bark.
5. Write the biological source, chemical constituents, chemical tests and uses of Agar.
6. Macroscopy and microscopy of any one alcohol type of volatile oil containing drug.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LN 809]

OCTOBER 2018

Sub. Code: 3809

PHARM. D DEGREE EXAMINATION
(2009-2010 Regulation)
SECOND YEAR
PAPER III - PHARMACOGNOSY AND PHYTOPHARMACEUTICALS

Q.P. Code: 383809

Time: Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Define crude drug. Write the classification of crude drugs with examples.
2. Write in detail about cell and cell inclusions.
3. Define carbohydrates. Write in detail about one carbohydrate containing drug.
4. Write the factors affecting the cultivation of medicinal plants.

II. Write notes on:

(6 x 5 = 30)

1. History and scope of Pharmacognosy.
2. Insect flower.
3. Macroscopy and Powder Microscopical character of any one bark drug.
4. Absorbent cotton.
5. Types of adulteration.
6. Chemistry of lipids.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 809]

MAY 2019

Sub. Code: 3809

PHARM. D DEGREE EXAMINATION
(2009-2010 Regulation)
SECOND YEAR
PAPER III - PHARMACOGNOSY AND PHYTOPHARMACEUTICALS

Q.P. Code: 383809

Time: Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Define Fats and Waxes. Write in detail of any two Lipid containing crude drugs.
2. Definition, history and scope of Pharmacognosy.
3. What are Fibers? Write any two Plant Fibers.
4. Define Protein. Write any one Protein drug.

II. Write notes on:

(6 x 5 = 30)

1. Write note on taxonomical and pharmacological classification.
2. Advantages and disadvantages of cultivation.
3. Preparation of starch from various sources.
4. Macroscopy and Powder Microscopical character of any one leaf drug.
5. Systematic study of crude drugs with examples.
6. Any one anti-xerophthalmic oil.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LP 809]

OCTOBER 2019

Sub. Code: 3809

PHARM. D DEGREE EXAMINATION
(2009-2010 Regulation)
SECOND YEAR
PAPER III - PHARMACOGNOSY AND PHYTOPHARMACEUTICALS

Q.P. Code: 383809

Time: Three hours

Maximum : 70 Marks

I. Elaborate on:

(4 x 10 = 40)

1. Define adulteration. Write the types of adulteration.
2. Define lipids. Write in detail about any two marine source oils.
3. Write notes on collection and processing of crude drugs.
4. Write about any two natural pesticides.

II. Write notes on:

(6 x 5 = 30)

1. Chemical test for honey and gelatin.
2. Chemistry and methods of analysis of protein.
3. General methods of isolation of volatile oils.
4. Macroscopy and Powder Microscopical character of any one fruit drug.
5. Adulteration used in clove.
6. Jesuit's bark.
