

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

M.Sc.(Medicinal Plants) Final Year Examination - July - 2018

Botany

Date: 30-07-2018
Monday

Time: 10:00 A.M. to 01:00 P.M.
Marks: 100

Note :-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.

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| 1. | Give the silent features of the family Amaranthaceae, write the morphology & classification of Apamarga . |
| 2. | Classify the plant kingdom according to Bentham & Hooker from Monochlamydae upto Monocots with Suitable examples. |
| 3. | Describe the distinguish characters of Curvembryae and Microembryae and add a note on Pippali. |
| 4. | Give the silent features of the family Laminaceae , write the morphology & classification of any two plants from the family. |
| 5. | Give the silent features of the family Lillieaceae , write the morphology & classification of any two plnts from the family. |
| 6. | Write short notes on any Two of the following : |
| (A) | Flaoral characters and diagram of the family Euphorbiaceae and Orchidaceae. |
| (B) | Multiovuleate aquatic-Multiovulate terrestrica. |
| (C) | Series Dephnales. |

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

M.Sc.(Medicinal Plants) Final Year Examination - July - 2018

Dravyaguna Vigyan

Date: 31-07-2018

Tuesday

Time: 10:00 A.M. to 01:00 P.M.

Marks: 100

Note :-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.

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| 1. | Write the latin name, family, major chemical constituents, Pharmacological actions and parts used of the following plants. i. Amalaki ii. Statavari iii. Pippali iv. Mayaphala |
| 2. | Write latin name, family, Rasadi pancakc and classical therapeutic properties of the following plants. i. Chandana ii. Bhanga iii. Maricha iv. Twaka |
| 3. | Write the latin name, family, parts use, classical therapeutic actions and common uses of the following plants. i. Eranda ii. Pashana javani iii. Sunthi iv. Devadaru |
| 4. | Write the latin name, market name, major phytoconstituents and pharmacological actions of two medicinal plants from following family. i. Moraceae ii. Orchidaceae iii. liliaceae. |
| 5. | Write the latin name, family, two synonymus, Dosakarma, formulations and common uses of the following drugs. i. Narikela ii. Surana iii. Punarnva iv.Pippali |
| 6. | Write short notes on any Two of the following : |
| (A) | Substitutes and adulterants |
| (B) | Contribution of medico-ethno-botany in traditional medicine |
| (C) | Importance of preservation of rare and endangered medicinal plants |

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

M.Sc.(Medicinal Plants) Final Year Examination - July - 2018

Pharmacognosy

Date: 01-08-2018
Wednesday

Time: 10:00 A.M. to 01:00 P.M.
Marks: 100

Note :-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.

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| 1. | Define Oils, Fats and Waxes, classification properties and uses with suitable examples. |
| 2. | Define alkaloids with their classification, Properties, tests and uses. |
| 3. | Detailed the factors which affecting the quality of the Raw drugs and add note on quantitative microscopy. |
| 4. | Give detail about controversial aspects of Ayurvedic drugs with suitable examples. |
| 5. | Give the classification of Resins, Properties and their uses of organized drugs. |
| 6. Write short notes on any Two of the following : | |
| (A) | Proto alkaloids and their uses. |
| (B) | Unorganized Drugs yielding Resin with suitable examples. |
| (C) | Grading & Drying methods of Crude drugs. |

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

M.Sc.(Medicinal Plants) Final Year Examination - July - 2018

Pharmacology

Date: 02-08-2018
Thursday

Time: 10:00 A.M. to 01:00 P.M.
Marks: 100

Note :-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.

1. Write a detail note on Drug metabolism and Drug excretion.
2. Enumerate different types of Toxicity studies in animals. Write a detail note on Teratogenic, Mutagenic and Carcinogenic effects of drugs and their evaluation methods.
3. Name different laboratory animals used in research. Describe briefly about Rats and Mice as laboratory animals.
4. Enumerate different factors which can modify Drug bioavailability and Drug response. Briefly discuss any two in details.
5. Enlist various screening methods for Hepatoprotective and Nephroprotective activities of drugs in laboratory animals. Describe any one model for each activity in detail.
6. Write short notes on any **Two** of the following :
 - (A) Screening methods for Immunomodulatory and Anti-ulcer drugs in animals
 - (B) Open field behaviour test and Plus maze test.
 - (C) Screening methods for Analgesic and Anti-inflammatory drugs in animals.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

M.Sc.(Medicinal Plants) Final Year Examination - July - 2018

Ayurvedic Drug Formulations

Date: 03-08-2018
Friday

Time: 10:00 A.M. to 01:00 P.M.
Marks: 100

Note :-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.

1. Explain the detail classical methods for preparation of Guggulu Kalpa and detail parameters for standardization of Vati Kalpana.
2. Write a detail method for preparation of Sneha Kalpana, Sneha Siddhi lakshana and it's standardization.
3. Write a detail note on preparation of Bhasma Kalpana with Bhasma pariksha. Explain the various standardization methods for Bhasma Kalpana.
4. Describe the regulatory aspects related to Manufacture and Sale of Ayurvedic drugs in detail.
5. Describe the instruments used for preparation of Ayurvedic formulations in Ancient time as well as in Present time in Ayurvedic industries.
6. Write short notes on any **Two** of the following :
 - (A) Kshara Kalpana and Kwatha Kalpana.
 - (B) Avalena Siddhi Lakshana and Pathya Kalpana.
 - (C) Kupi pakva Rasayana with examples.
