JAMNAGAR

M.Sc. Medical Plants FIRST Year Annual Examination - August 2017

BOTANY

DATE:- 01	1-08-2017
Tuesday	

TIME 10:00 A.M. TO 1:00 P.M.

Max. Marks: - 100

Instruction: 1.	All questions carry equa	l marks
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- 2. Attempt any five questions.
- 1 Nymphaeuceae Brassicaceue

Discifilorae _ Calyciflorae

- Give a complete classification of Bentham and Hooker up to orders with merits and demerits.
- 3 Give short notes on following with suitable examples (any five)
 - (A) Rhizome

(D) Floral Part of Daru Haridra

(B) Catkin

- (E) Evergreen Forest
- (C) Compound leaves
- (F) Papilinecious Corolla
- 4 Give silent features of the family, meliaceae. Classify systematically any three plants which you studied with sunskrit name, part used and uses.
 - (A) Preparation of Herberium speciments.
 - (B) Define Inflorescence, types along with the suitable examples.
- 5 Classify along with Botanical name, Sanskrit name, Part used and uses of following (any five)
 - (A) Ati Visha
 - (B) Sitaphala
 - (C) Guduchi
 - (D) Bala
 - (E) Bahu Phali
 - (F) Parisha

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DRAVYAGUNA

DATE:- 02-08-2017 Wednesday

TIME 10:00 A.M. TO 1:00 P.M. Max. Marks :- 100

Note:-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.
- What are useful plant parts? Describe with example how many 'parts use' of medicinal plants are there and explain their importance.
- Describe the history of Ayurveda in brief and put a brief note on sources of drugs in Ayurveda.
- Write the latin name, family, therapeutic properties, formulations, uses and parts use of **any four** of the following.
 - (A) Guggulu (C) Gokshuru (E) Nimba
 - (B) Punarnava (D) Kutaja
- Write the latin name, two synonyms, parts use, formulations and major therapeutic indications of the following drugs:
 - (A) Aswagandha
 - (B) Amalaki
 - (C) Haritaki
 - (D) Brihati
 - (E) Arjuna
- Write latin name, market name, part use, major chemical constituents and formulations of the following families. (At least two plants from each family).
 - (A) Fabaceae

(C) Menispermacea

(B) Malvaceae

(D) Rutaceae

- Write short notes on any four of the following:
 - (A) Panchamahabhuta
 - (B) Rasa
 - (C) Tridosha
 - (D) Medhya
 - (E) Swarasa Kalpana

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M.Sc. Medical Plants FIRST Year Annual Examination - August 2017

MEDICINAL PLANTS CULTIVATION

DATE:- 03-08-2017

Thursday

TIME 10:00 A.M. TO 1:00 P.M.

Max. Marks :- 100

Note:-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.
- 1 Define Soil and its profile. Discuss its various types of soil in India.
- 2 Define phytogeography. Discuss in detail phytogeographic areas of India with flora.
- 3 (A) How Panchamahabhuta effects on Ayurvedic raw drugs with suitable examples.
 - (B) Describe Kunapajala and its formulation.
- 4 Define reproduction. Discuss methods of reproduction W.R.T. medicinal plants.
- Define diseases. Discuss various types of diseases of medicinal plants which you studied add a note on controlling measures.
- 6 Give GAP and GCP of following medicinal plants (any five).
 - (A) Maricha.
 - (B) Swetha Musali.
 - (C) Guduchi.
 - (D) Mandukaparni.
 - (E) Kumari.
 - (F) Kalamegha.

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PHARMACOGNOSY

DATE:- 04-08-2017

Friday

TIME 10:00 A.M. TO 1:00 P.M.

Max. Marks: - 100

Note:-

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.
- 1 Discuss evaluation of crude drugs with suitable examples.
- What is carbohydrate? Classify them in detail with suitable example and write a note on soluble sachharide.
- 3 Explain Permanent tissues and its importance in drug identity.
- 4 Enumerate saponin in detail and write any two drugs containing them.
- 5 What is Tannin? Discuss in detail. Mention various chemical tests to detect them.
- 6 Define volatile oil. Discuss various distillation methods with appropriate examples.
- 7 Write a note on following:
 - (A) Condensed Tannin.
 - (B) Swelling factor.
 - (C) Explain gums are pathological products of plant..

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PHYTOCHEMISTRY

DATE:- 05-08-2017

Saturday

TIME 10:00 A.M. TO 1:00 P.M.

Max. Marks: - 100

Instructions: 1. Attempt any five questions.

2. All questions carry equal marks.

- 1. Write down the principle, instrumentation and applications of Refractometry in detail.
- 2. Define Chromatography and discuss the Thin Layer Chromatography in detail.
- 3. Discuss about Chemical shift and Spin Spin coupling in NMR.
- 4. Discuss the Microbial and Radioactive contamination in medicinal plants and their products.
- 5. Discuss the criteria for Standardization and Quality control of Herbal Drugs and their products.
- 6. Write short note on any **Two** of the following:
 - A. Different electronic transition in UV spectroscopy.
 - B. pH metry
 - C. Applications of IR Spectroscopy.
