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4500

Reg. No. :

Name :

Second Professional B.S.M.S. Degree Examination, August 2009
(New Scheme) (2006 Admission Onwards)
MARUTHUVA THAVARA IYAL

Time : 3 Hours

Max. Marks : 100

Instructions : 1) Answer *all* questions.
2) **Draw** necessary diagrams.

PART – A

- I. a) Define cell ? Describe the living inclusions in a plant cell. 5
b) Write notes on natural system of classification. 5
- II. a) What are Lichens ? Describe the structure and function of the Parmelia. 6
b) Write medicinally useful fungi. 4
- III. a) Why Ranunculaceae is considered as the primitive family and write five primitive features of the family ? 3
b) Mention five medicinally useful plants. 5
c) What are the characters exhibited by Ranunculaceae to indicate its affinity towards monocots ? 2
- IV. Write notes on the following : (5×2=10 Marks)
1) Mimosaceae flower.
2) Tendrils in cucurbitaceae.
3) Androecium in Meliaceae.
4) Papilaceous corolla.
5) Gynandrophore in Capparaceae.

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V. a) Explain the inflorescence in Asteraceae with neat labelled diagram. **4**

b) Where can you see the following : **(12×½=6 Marks)**

- 1) Chlorophyll.
- 2) Oil glands.
- 3) Cremocarp.
- 4) Endarch xylem.
- 5) Glume.
- 6) Monadelphous condition.
- 7) Legume.
- 8) Leaf ad nation.
- 9) Gynostrium.
- 10) Conidia.
- 11) Sorus.
- 12) Hesperidium.

PART – B

VI. Differentiate the roots from rhizomes. Write notes on the medicinal importance of both. **10**

VII. Write an essay on wood used in medicine. **10**

VIII. Write notes on the following : **(2×5=10 Marks)**

- 1) Herbal drug standardization.
- 2) Oleoresins.
- 3) Tissue culture.
- 4) Poisonous plants.
- 5) Asafoetida.



IX. Give an account of the collection and preservation of bark and write an account of barks used in medicine. 10

X. Bring out the differences between the following : (2×5=10 Marks)

- 1) Verticillaster × Thyrsus
- 2) Essential oil × Non essential oil
- 3) Glucosides × Alkaloids
- 4) Tannin × Resin
- 5) Stem × Root

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