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**End Semester Examination of Semester-I, 2015**

**Subject : BOTANY (HONS.) (UG)**

**Paper : I (Theory)**

**Full Marks : 40**

**Time : 2 Hrs**

*The figures in the margin indicate the marks corresponding to the question*

*Candidates are requested to give their answers in their own word as far as practicable.*

*Illustrate the answers wherever necessary.*

**Group A**

- A. Answer any two out of four questions : 10x2=20
1. What is double fertilization? How many types of endosperm formation are found in angiosperm? Mention them. What do you mean by polyembryony? 2+6+2=10
  2. Describe with example the different types of root-stem transition system. What do you mean by organoleptic study of a drug? Distinguish between the ring-porous and diffuse porous wood. What is Quiescent centre? (5+2)+1+1+1=10
  3. Describe the different range of thallus structure in algae. Write down the different types of asexual reproduction found in *Vaucharia*. What is diatomite. 5+4+1

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4. Write short notes on (any two) :  $5+5=10$
- Meristematic tissue.
  - Dry dehiscent Fruits.
  - Inter-xylary phloem formation in *Strychnos*.

**Group B**

- B. Answer any two out of four questions :  $5 \times 2 = 10$
- Describe with suitable diagram & example, the special types of cymose inflorescence.  $5$
  - Give examples (Scientific names) of :  $1+1+1+1+1=5$ 
    - Basal placentation.
    - Twisted aestivation.
    - Synandrous stamens
    - Gynobasic style.
    - Pepo fruit.
  - Characterise Cyanophyceae.  $3+2=5$
    - Name two contrivances for cross pollination.  $3+2=5$
  - What do you mean by organoleptic study? Mention the active principles, common adulterants and use of *Zingiber* (rhizome) and *Adhatoda* (leaf).

$$2+1\frac{1}{2}+1\frac{1}{2}=5$$

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**Group C**

- C. Answer any five out of ten questions :  $2 \times 5 = 10$
- What do you mean by floral formula & floral diagram?
  - What is Agar-Agar? Give its source.
  - Name two Algae used as food and fodder.
  - Differentiate between ornithophily and entomophily.
  - What is helobial type of endosperm formation?
  - Give example of extrastellar cambium. What does it produce?
  - Distinguish between epigynous flower and perigynous flower with example.
  - What are corona and papus?
  - What is Palmella stage? Mention the name of a semiparasite alga.
  - Distinguish between "Berry" and "Pepo" type of fruit.