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End Semester Examination of Semester–I, 2015

Subject : BOTANY (PG)

Paper : 103

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.

Answer all the questions

Group–A

1. Answer any seven (7) of the following questions:

2x7=14

- i) What is 'Brachymeiosis'?
- ii) What do you mean by dimorphic fungi? Give example.
- iii) What is multiplicate fructification?
- iv) What is Koch's postulates?
- v) Define horizontal and vertical resistance.
- vi) What is quarantine?
- vii) What is spindle pole body?

(2)

- viii) What is clump connection?
- ix) What is pathotoxin and vivotoxin?
- x) What is tetrapolar heterothallism?
- xi) What autoceous and heteroceanous rust? Give example.
- xii) What is pro sorus?

Group-B

2. Answer **any two** (2) of the following questions:

5x2=10

- i) Methods involved in biological control of plant diseases.
- ii) What is toxin? Mention the criteria of toxin. How does toxin work within the host cell.
- iii) Write a note on spore dispersal mechanism in Fungi.
- iv) What is ascocarp? Diagrammatically represent the formation of ascus and ascospore.

Group-C

3. Answer **any two** (2) of the following questions:

8x2=16

- i) a) Write a note on phytoalexin.
- b) How does plant prevent pathogen physically.

(3)

- ii) a) Mention the role of enzyme in host-parasite interaction.
 - b) Mention the role of fungi as animal parasite.
 - iii) Discuss the role mycorrhizal fungi as biofertilizer and bioprotector in forestry and agriculture.
 - iv) Classify fungi according to Hawksworth with the characters of different phyla.
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