MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	**: I (New)**	**Term**	**: I**	**Academic Year**	**: 2016-17**
Course No.	**: PATH 111**	**Title**	**: Introductory Plant Pathology**		
Credits	**: 2(1+1)**				
Day & Date	**: Wednesday, 14.12.2016**	**Time**	**: 10.00 to 12.00**	**Total Marks**	**: 40**

Note : 1. Solve **ANY EIGHT** questions from **SECTION "A".**
2. All questions from **SECTION "B"** are compulsory.
3. All questions carry equal marks.
4. Draw neat diagrams wherever necessary.

SECTION "A"

Q.1 Write in short the contribution made by following scientists.

1) Prevost 2) Carl Linnaeus

Q.2 a) Enlist various groups of plant pathogenic organisms/agents with suitable example.

b) Classify the flowering plant parasites with suitable example.

Q.3 Define prokaryotes. Classify the phytobacteria according to Bergey's manual of systematic bacteriology.

Q.4 Describe in short the general characteristics of fungi.

Q.5 Write in detail different types of thalli of fungi with neat diagrams.

Q.6 Write in short.

a) Objectives and branches of plant pathology.

b) Disease triangle.

Q.7 Describe in detail modified vegetative structures of fungi.

Q.8 Write in short with neat diagram with suitable example of following.

a) Gametangial copulation

b) Gametangial contact.

Q.9 Write in short regarding Taxonomy, Nomenclature, Binomial nomenclature and suffixed attached to the taxon.

Q.10 Classify the fungi upto subdivision with differentiating characters.

SECTION "B"

Q.11 Choose the correct answer.

1) A naked multinucleate mass of protoplasm that moves and feeds in an amoeboid fashion is_____.

a) Pseudoplasmodium b) Assimilative phase

c) Plasmodium d) None of these

(P.T.O.)

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2) An endophytic mycelium which grows in conductive tissues of a host is_____.

a) Intercellular mycelium
b) Intracellular mycelium
c) Ectophytic mycelium
d) Vascular mycelium

3) A compact somatic structures, much like a mattress on or in which fruictifications are usually formed is_____.

a) Sclerotium
b) Stroma
c) Rhizomorph
d) Hypha

4) _____sexual spores formed by the union of two morphologically different gametangia.

a) Zoospores
b) Zygospores
c) Conidia
d) Oospores

Q.12 Answer in one sentence.

1) Name the scientist who wrote the first book "Vraksha Ayurveda" in which plant diseases have been discussed.

2) Who developed the well-known antifungal antibiotic "Aureofungin" with the assistance of co-workers.

3) Disease characterized by general and rapid killing of leaves, flowers and stems.

4) The smallest known pathogens, naked, circular, single stranded RNA molecules, which infect plants only.

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