

Write the following information in the first page of Answer Script before starting answer

ODD SEMESTER EXAMINATION: 2020-21

Exam ID Number _____

Course _____ Semester _____

Paper Code _____ Paper Title _____

Type of Exam: _____ (Regular/Back/Improvement)

Important Instruction for students:

1. Student should write objective and descriptive answer on plain white paper.
2. Give page number in each page starting from 1st page.
3. After completion of examination, Scan all pages, convert into a single PDF, rename the file with Class Roll No. (2019MBA15) and upload to the Google classroom as attachment.
4. Exam timing from 10am – 1pm (for morning shift).
5. Question Paper will be uploaded before 10 mins from the schedule time.
6. Additional 20 mins time will be given for scanning and uploading the single PDF file.
7. Student will be marked as ABSENT if failed to upload the PDF answer script due to any reason.

B.Sc. BOTANY
THIRD SEMESTER
MYCOLOGY & PLANT PATHOLOGY
BSB - 302

Duration : 3 hrs.

Full Marks : 70

(PART-A: Objective)

Time : 20 min.

Marks : 20

Choose the correct answer from the following:

1×20=20

1. Citrus canker is caused by
 - a. *Xanthomonas citri*
 - b. *Pestalotiopsis palmarum*
 - c. *Colletotrichum falcatum*
 - d. *Podospaera xanthii*
2. An example of macrofungi is-
 - a. *Mucor*
 - b. *Penicillium*
 - c. *Fusarium*
 - d. *Agaricus*
3. Late Blight of Potato is caused by-
 - a. *Colletotrichum falcatum*
 - b. *Phytophthora infestans*
 - c. *Xanthomonas citri*
 - d. *Magnaporthe oryzae*
4. Fungi used in production of bread is-
 - a. *Yeast*
 - b. *Mucor*
 - c. *Rhizopus*
 - d. *Puccinia*
5. -----is a defense mechanism present in plants.
 - a. Stomata
 - b. Cutin
 - c. Tendril
 - d. Hydathode
6. When two mycelium of opposite strains (+) & (-) come near one another, the mycelia produce small outgrowths called as:
 - a. Progametangia
 - b. Sclerotia
 - c. Ascus
 - d. Metulae
7. The reserve food in yeast is in the form of
 - a. Starch
 - b. Cellulose
 - c. Oils & glycogen
 - d. Protein
8. *Penicillium* belongs to class
 - a. Eurotiomycetes
 - b. Deuteromycetes
 - c. Basidiomycetes
 - d. Ascomycetes
9. Hyphae of fungi are collectively known as
 - a. Sclerotia
 - b. Mycelium
 - c. Plectenchyma
 - d. Rhizomorph

10. Loose smut of wheat is caused by
a. *Ustilago nuda*
c. *Pestalotiopsis palmarum*
b. *Pyricularia oryzae*
d. *Colletotrichum falcatum*
11. The phenomenon in which there is involvement of two or more different type of sexes or mating types is considered as
a. Budding
c. Fusion
b. Heterothallism
d. Fragmentation
12. Fungi which can grow only on living host plant are called
a. Obligate saprophytes
c. Facultative parasites
b. Obligate parasites
d. Saprophytes
13. Conidia and sporangia are the spores produced by
a. Virus
c. Phanerogams
b. Bacteria
d. Fungi
14. Association of fungi with roots of higher plants is known as
a. Lichen
c. Mycorrhiza
b. Basidiolichen
d. Ascolichen
15. Alexander Fleming (1929) discovered
a. Streptomycetase
c. Tyrocidine
b. Penicillin
d. Giseofulvin
16. Phytophthora belongs to family
a. Pythiaceae
c. Pareonosporaceae
b. Peronophythoraceae
d. Albuginaceae
17. Grey blight disease is caused by
a. Bacterium
c. Fungus
b. Virus
d. Nematode
18. Which of them is a poisonous mushroom?
a. Agaricus
c. Peasurotus
b. Volvariella
d. Amanita
19. Rhizopus belongs to class
a. Zygomycetes
c. Trichomycetes
b. Oomycetes
d. Ascomycetes
20. Mycology is the study of
a. Fungi
c. Bacteria
b. Virus
d. Algae

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(**PART-B : Descriptive**)

Time : 2 hrs. 40 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Describe in brief the symptoms, disease cycle and control measure of Late Blight of Potato. | 3+4+3
=10 |
| 2. Describe the spore dispersal mechanisms found in different groups of fungi. | 10 |
| 3. What are the types of reproduction occurring in fungi? Describe each type in brief | 2+8=10 |
| 4. Write a note on the morphology and reproduction of <i>Mucor</i> . | 5+5=10 |
| 5. Describe the major symptoms of bacterial and fungal plant diseases. | 5+5=10 |
| 6. Name the causal organism of Red rot of sugarcane. Describe its symptoms and disease cycle in brief. | 2+4+4
=10 |
| 7. What are the major economic uses of fungi? Highlight both its beneficial uses as well as its detrimental effects. | 10 |
| 8. Write a note on the morphology and reproduction of <i>Penicillium</i> . | 10 |

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