

PARUL UNIVERSITY
PARUL INSTITUTE OF APPLIED SCIENCES
MID SEMESTER INTERNAL EXAMINATION, MARCH 2020
B. Sc. Chemistry/Physics Semester II

Paper Name: Foundations of Biology-II

Date: 04/03/2020

Paper Code: 11100155

Time: 1hr 30min

Max. Marks: 40

Instructions:

1. All questions are compulsory and options are given in first and second question only.
 2. Numbers to the right of question indicate the marks of respective question.
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Q. 1 Attempt any one question of the following. **(08)**

- (i) Describe economic importance of fungi.
- (ii) Explain sexual reproduction in algae.

Q. 2 Attempt any three questions of the following. **(12)**

- (i) Describe general characteristics of fungi.
- (ii) Write uses of lichens.
- (iii) Write a note on fungal cell wall.
- (iv) Explain different types of pigment present in algae.
- (v) Describe Chlorophyceae & Xanthophyceae in detail.

Q. 3 Do as directed. Attempt all five questions. **(05)**

- (i) Which class of fungi is also known as Fungi imperfecti?
- (ii) Name the hormone & fungus which cause a disease of rice accompanied by abnormal elongation.
- (iii) Name the fungicide which is used for treatment of downy mildew of grapes.
- (iv) Who introduced the term algae?
- (v) Define phycology.

Q. 4 Write correct option in your answer sheet for following 15 multiple choice questions. **(15)**

MCQ 1 The edible fungi are

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|-------------|---------------|
| (A) Rusts | (B) Moulds |
| (C) Mildews | (D) Mushrooms |

MCQ 2 Agar-Agar is obtained from

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|--------------|------------------|
| (A) Gelidium | (B) Polysiphonia |
| (C) Fucus | (D) Laminaria |

MCQ 3 What is the storage product of most algae?

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|------------------|--------------|
| (A) Cellulose | (B) Glycogen |
| (C) Starch & oil | (D) Fat |

MCQ 4 Ergot disease of rye is caused by

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|--------------|-----------|
| (A) Fungi | (B) Virus |
| (C) Bacteria | (D) Algae |

MCQ 5 Fungus used for the fermentation of cheese is

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|-----------------------------------|------------------------------------|
| (A) <i>Mucor mucedo</i> | (B) <i>Rhizopus nigricans</i> |
| (C) <i>Penicillium camemberti</i> | (D) <i>Penicillium chrysogenum</i> |

- MCQ 6 All algae possess
 (A) nuclei (B) chloroplast
 (C) Both a & b (D) None of these
- MCQ 7 A motile flagellated asexual cell is called
 (A) Sperm (B) Zoospore
 (C) Oospore (D) Androspore
- MCQ 8 Pyrenoids are the centre of formation of
 (A) proteins (B) fats
 (C) starch (D) enzymes
- MCQ 9 Rhodophyceae is red coloured due to
 (A) phycoerytherin (B) phycocyanin
 (C) xanthophyll (D) carotenoids
- MCQ 10 Which of the following is obtained from algae
 (A) Wax (B) Chocolate
 (C) Butter (D) Carragenin
- MCQ 11 Which of the following pigments is present in all algae
 (A) Chlorophyll-a (B) Chlorophyll-c
 (C) Chlorophyll-b (D) Chlorophyll-d
- MCQ 12 Mycorrhiza exhibits the phenomenon of
 (A) Parasitism (B) Symbiosis
 (C) Antagonism (D) Endemism
- MCQ 13 Absorptive heterotrophic nutrition is exhibited by
 (A) Algae (B) Bryophytes
 (C) Fungi (D) Pteridophytes
- MCQ 14 The group or mass of hyphae is
 (A) Coenocyte (B) Hyphae
 (C) Sporophore (D) Mycellium
- MCQ 15 Damping off is _____ disease
 (A) Bacterial (B) Protozoal
 (C) Fungal (D) None of the above

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