GOVERNMENT AUTONOMOUS COLLEGE, ROURKELA

DEPARTMENT OF BIOTECHNOLOGY

QUESTION BANK

PAPER- C 2 TITLE: PLANT PHYSIOLOGY AND DIVERSITY

1. Fill in the blanks:

- a. A non-motile spore in which the spore wall is not derived from the wall of its present cell is ______.
- b. Luxuriant growth of algae in water often imparting colour to the water is called _____.
- c. Motile structure are absent in the members of ______ and blue-green algae.
- d. Fritsch divided algae into _____ classes.
- e. Mycelium is absent in _____
- f. Fungi when live symbiotically with algae, are called______.
- g. Lichens growing on rocks are called ______.
- h. The nurse cells are present in the sporogonium of ______.
- i. Elasters are _____ in nature.
- j. Air gun mechanism of capsule dehiscence occurs in ______.

2. Very short answer questions:

- a. Name any two bryophytes where archesporium is endothecial in origin.
- b. In which fungus the thallus is unicellular and holocarpic?
- c. Name any three modifications of fungal mycelium.
- d. Name the lichen from which orchil dye is obtained.
- e. Name the type of plant formed by the association of algae and fungi.

3. Short answer questions:

- a. Why are lichens generally not found in cities? What conclusion can you draw from this as to the physiology of lichens?
- b. What is symbiosis? How are the lichens are best example of symbiosis?
- c. Write a note on internal structure of lichen thallus.
- d. In what ways can algae be of use to space travellers?

e. Why is Chlorella considered to be more useful in experimental work than leaves of higher plants?

4. Long answer questions:

- a. Write an essay on the economic importance of algae.
- b. Describe the form and structure of lichens. Comment briefly on their ecological importance.
- c. What are lichens? Describe various modes of their reproduction.
- d. Give an account of the habit and habitat of the algal forms which you have studied.
- e. How do the algae perennate? Write some of the perennating bodies in the algae that you know.