

**Royal College of Arts Science and Commerce**  
**F.Y.B.Sc.**  
**Semester I**  
**Sample Questions**  
**Botany Paper I**  
**USBO101**

**Instructions:**

- 1) Fill in the blanks with the most appropriate option
- 2) Each question is for 1m in Section I
- 3) Each question is for 2m in Sections II and III Section I

**Section I**

1. \_\_\_\_\_ are the thin walled spores formed in *Nostoc*
  - a. Endospores
  - b. Akinetes
  - c. Hormogones
  - d. Heterocysts
  
2. Girdle shaped chloroplast is found in \_\_\_\_\_
  - a. *Zygnema*
  - b. *Oedogonium*
  - c. *Ulothrix*
  - d. *Scenedesmus*
  
3. The thallus of \_\_\_\_\_ consist of rhizoidal hyphae, stolons and sporangiophores
  - a. *Rhizopus*
  - b. *Spirogyra*
  - c. *Aspergillus*
  - d. *Nostoc*
  
4. *Riccia* belongs to \_\_\_\_\_ division
  - a. Eumycophyta
  - b. Pteridophyta
  - c. Cyanophyta
  - d. Bryophyta

## Section II

5. Which type of alternation of generation is observed in *Spirogyra*
  - a. Haplontic
  - b. Haplodiplontic
  - c. Diplontic
  - d. Diplohaplontic
  
6. Fungi growing on dung are known as \_\_\_\_\_
  - a. Obligate parasite
  - b. Facultative parasite
  - c. Coprophilous
  - d. Predacious
  
7. Which spores are formed exogenously in *Aspergillus*
  - a. Sporangiospores
  - b. Conidiospores
  - c. Zoospores
  - d. Aplanospores
  
8. *Riccia* possesses \_\_\_\_\_ on its ventral surface
  - a. Scales
  - b. Rhizoids
  - c. Scales and Rhizoids
  - d. Roots

## Section III

9. Name the single granule present at the base of the flagellum in algae
  - a. Pyrenoid
  - b. Blepharoplast
  - c. Chloroplast
  - d. Stigma
  
10. Identify which is not correct reason of class *Phycomycetae*
  - a. Sporangia contain indefinite number of spores
  - b. Zygote formed is by fusion of two gametic nuclei.
  - c. Zygote does not remain dormant for a long duration
  - d. Aseptate mycelium
  
11. Which of the following statement is correct about *Riccia* sporophyte
  - a. It is fully independent
  - b. It is fully dependent

- c. It is partially dependent on gametophyte
- d. It is fully dependent on gametophyte

12. Match the items of column I with those in Column II

Column I	Column II
1. Myxophyceae	i. <i>Aspergillus</i>
2. Zygnematales	ii. <i>Nostoc</i>
3. Mucorales	iii. <i>Spirogyra</i>
4. Ascomycetae	iv. <i>Rhizopus</i>
a. 1-iii, 2-ii, 3-iv, 4-i	
b. 1-ii, 2-iii, 3-iv, 4-i	
c. 1-i, 2-ii, 3-iii, 4-iv	
d. 1-iv, 2-i, 3-ii, 4-iii	