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SARDAR PATEL UNIVERSITY  
B.Sc 2<sup>nd</sup> SEMESTER EXAMINATION

BIOLOGY USO2CBIO02

TUESDAY 29<sup>th</sup> MARCH, 2016

THALLOPHYTA, BRYOPHYTA, PTERIDOPHYTA

TIME : 10.30 AM TO 12.30 PM

MARKS-70

Note : Draw neat and labelled diagram wherever necessary

Q-1 Multiple choice questions

(10)

- (1) Cystocarp is fruiting body of  
(a) *Batrachospermum* (b) *Nostoc* (c) *Zygnema* (d) *Volvox*
- (2) Unilocular and plurilocular sporangia are found in  
(a) *Zygnema* (b) *Ectocarpus* (c) *Volvox* (d) None of these
- (3) Star shaped chloroplast are present in  
(a) *Volvox* (b) *Nostoc* (c) *Zygnema* (d) *Ectocarpus*
- (4) The fungus frequently growing on bread is  
(a) *Agaricus* (b) Yeast (c) *Rhizopus* (d) *Penicillium*
- (5) The study of fungi is called  
(a) Phycology (b) Mycology (c) Biology (d) Zoology
- (6) Mushroom are rich in  
(a) Carbohydrates (b) Protein (c) Fat (d) Pigments
- (7) \_\_\_\_\_ Perform the function of absorption and fixation in *Riccia*  
(a) Rhizome (b) Rhizine (c) Rhizoids (d) Roots
- (8) The narrow elongated upper portion of the archegonium is known as  
(a) Venter (b) foot (c) seta (d) Neck
- (9) Peltate discs are present in the strobilus of  
(a) *Equisetum* (b) *Sellaginella* (c) *Lycopodium* (d) *Rhynia*
- (10) Spores of *Lycopodium* germinate to produce  
(a) Sporophyte (b) Prothallus (c) Sporangiphore (d) Strobilus

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Q-2 Answer the following (Attempt any ten)

(20)

- (1) What is anisogamy?
- (2) What is akinetes?
- (3) What is *Volvox* coenobium?
- (4) Write about binary fission in Yeast
- (5) Give medicinal value of Mushroom
- (6) "Fungi are heterotrophs" explain the statement
- (7) Sketch and label archegonium of *Riccia*
- (8) Explain spore germination in *Funaria*
- (9) Name the main three parts of *Anthoceros* sporophyte and state their functions
- (10) Sketch and label *Fern* sporangium
- (11) Write xerophytic characters of *Equisetum*
- (12) Define - Plecto stele

- Q-3 (a) Write note on Scalariform conjugation in *Zygnema* (07)  
(b) Write about algae as food (03)

OR

- Q-3 (a) Explain the asexual reproduction in *Volvox* (06)  
(b) Describe the thallus structure of *Batrachospermum* (04)

- Q-4 (a) Write a note on asexual reproduction in *Rhizopus* (06)  
(b) Describe the types of Lichen (04)

OR

- Q-4 (a) Describe the asexual reproduction in *Penicillium* (06)  
(b) Write about fungi as food (04)

- Q-5 (a) Explain the External structure of *Riccia* thallus (05)  
(b) Describe the sex organs of *Funaria* (05)

OR

- Q-5 (a) Describe the internal structure of *Anthoceros* thallus (05)  
(b) Explain the sporophyte of *Riccia* (05)

- Q-6 Draw a labelled diagram of T.S of *Lycopodium* stem and describe its anatomical features (10)

OR

- Q-6 Describe the internal structure of *Equisetum* stem with diagram (10)

X=X=X

(2)