



MBC-003-001104

Seat No. _____

B. Sc. (Sem. I) (CBCS) Examination

November / December – 2016

Botany : B - 101

(Diversity & Classification of The Plant Kingdom)

(Old Course)

Faculty Code : 003

Subject Code : 001104

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

Instructions :

- (1) This question paper contains three questions. All questions are compulsory
- (2) Write answers of all the questions in main answer sheet.
- (3) Draw neat and labelled diagram wherever necessary
- (4) Figures to the right side indicated full marks for the questions.

Q- 1. Objective type questions.

20

- (1) Which generation is dominant in primitive plant's life cycle?
- (2) In which types of rocks fossils are commonly preserved?
- (3) The fruiting body of *Agaricus* is known as _____
- (4) When two sepals/petals lies completely outside, two completely inside and one contorted then it is which type of aestivation?
- (5) Which algae is abundantly found in Sargasso sea of Atlantic ocean?
- (6) Define: Taxonomy
- (7) Which is the most primitive member of Plant Kingdom?
- (8) The thallus of *Volvox* is in which form?
- (9) *Mucor* is also known as _____
- (10) In archegonia which cell lies just above the egg cell?
- (11) In *Marchentia* chloroplast is of which shape?
- (12) What is phyllotaxis?
- (13) Write scientific name of *Ardusi*
- (14) *Sellaginella* belongs to which class?

- (15) What is the function of coralloid root in *Cycas*?
- (16) Which type of venation pattern is found in *Ziziphus jujube*?
- (17) In *Cycas* pollen grains are shed in how many celled stage?
- (18) Which term is used to describe kidney shaped leaf?
- (19) Write the sequence of taxonomic category
- (20) Bryophytes are preferably grow in which type of habitat?

Q- 2. (A) Answer in brief : (any three)

06

- (1) What is stipule? Explain adnate stipule
- (2) Draw labelled diagram of v.s. of *Marchatia* gemma cup
- (3) Write any four characters of kingdom Fungi
- (4) Write any two scientific names and their common names of *Cycas* species
- (5) State systematic position of *Volvox*
- (6) Give the scientific name of two economic important plants of family Poaceae

Q- 2. (B) Answer any three:

09

- (1) Explain with diagram *Volvox* cell
- (2) Write general characters of kingdom Protista
- (3) Draw floral diagram of family Papilionaceae
- (4) Explain Compression fossil
- (5) Write external characters of *Sellaginella*
- (6) What is placentation? Explain- Axile placentation

Q- 2. (C) Answer in detail : (any two)

10

- (1) Describe sexual reproduction in *Mucor*
- (2) Explain in detail cone of *Sellaginella*
- (3) Describe: Microsporophyll and sporangia in *Cycas*
- (4) What is Inflorescence? Explain cymose type of inflorescence.
- (5) Describe Whittaker's five kingdom classification system

Q- 3. (A) Answer in brief : (any three) 06

- (1) Write the function of transfusion tissue of *Cycas* leaflet
- (2) Define: Raceme and Spike
- (3) Write thallus structure of *Mucor*
- (4) Define: Fossil
- (5) Write any four general characters of division Rhodophyta
- (6) Draw Imbricate aestivation

Q- 3. (B) Answer any three: 09

- (1) Draw labelled diagram of anatomy of *Marchantia* thallus
- (2) Explain Anatroplus ovule
- (3) Write six general characters of Pteridophyta
- (4) Write male conceptacle of *Sargassum*
- (5) Write economic importance of Fungi
- (6) Write any two scientific names of the plants belongs to family Euphorbiaceae and their uses

Q- 3. (C) Answer in detail : (any two) 10

- (1) Explain sporophyte of *Marchantia*
 - (2) Explain family Ceasalpiniaceae
 - (3) Describe gills of *Agaricus*
 - (4) Sexual reproduction in *Volvox*
 - (5) Diversity of land plants
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