### ATOMIC ENERGY CENTIME SCHOOL MANUNA

# Half yearly Examination 2015-2016

Class XI Max. Marks: 70 Subject: Biology Time: 3 hrs Section A (Very short answer type Questions) Q1- Heterocyst is found in which of the following groups: a)Chrysophytes b) Dinoflagellates c) Nostoc d) Slime moulds Q2- Asymbiotic association of fungi & roots of higher plants like pine trees is called Q3- How would you define a Transverse section? Have you ever cut a transverse section, give an example. Q4- Mark the odd one out in the series: Areolar tissue, blood, neuron, tendon. Q5- The lateral meristem in vascular bundle is called Section B (Short answer type Questions) 2x5=10**Q6-** Who introduced binomial nomenclature? Write its two advantages. Q7- Draw a neat & labeled diagram of a bacterium (Ultrastructure). Q8- Name the male reproductive and female reproductive organs of bryophytes, Funaria & Marchantia. On which structure are they borne? What do they reproduce? Q9- What is Casparian strips? Explain its function. Q10- Differentiate between tendon & ligaments.

Write the locations of the following tissue in the organs of the body

b) Simple cuboidal c) Ciliated columnar

d) Brush bordered columnar

a)Simple squamous

#### Section C (Short answer type Questions) 3x12=36

- Q11- Differentiate between following pair of words
  - i) Category & Taxon
  - ii) Taxonomy & Systematics
- Q12- Compare the structure of Phycomycetes & Basidiomycetes. Name the asexual
- Q13- Make an outline classification of Protista. Write one character and one example each of the group.

OR

Write any four important characteristic features of Euglenoids.

reproductive structure of each group with an example each.

- Q14- Tabulate the differences among Red, Brown and Green Algae with respect to reserved food & type of pigments and economic importance of the product which they produce.
- Q15- What do you understand by the following terms:
  - a) Radial symmetry b) Triploblastic c) Open circulatory System
- Q16- Assign the following animals to their respective Phylum. Write the name of the Phylum and 2 main characters of each phylum:
  - a) Tapeworm b) Starfish c) Balanoglossus
- Q17- Put the following animals into their respective classes
  - a) Butterfly b) Starfish c) Dogfish d) Salamander e) Bat f) Flamingo
- Q18- Write the type of root modification of the following roots.
  - a) Radish b) Sugarcane c) Sweet Potato d) Banyan Tree e) Wheat
  - f) Nodulated roots of leguminous plants.
- **Q19-** With the help of vertical section of a flower, show three different types of ovaries. Name the three kinds.
- Q20- Name three basic kinds of fruits with one character and one example each.

Q21- Show the longitudinal section (L.S.) of Phloem & label its parts.

OR

Show Conjoint Collateral Open & Closed vascular bundles.

Q22- Draw the diagrams of 3 types of granulocytes. Write one function each.

## Section D (Long answer, Value based Questions) 1x4=4

Q23- The blood donation to the needy person in case of emergency may be considered as a little sacrifice for saving life of an individual or it should not be done at all as it will seriously affect our health. Comment.

### Section E (Long answer type questions) 3x5=15

- Q24- Illustrate the life cycle of a Fern Pteris. Write briefly about the features.
- Q25- Compare the skin & Hearts of different classes of mammals.

OR

Compare the excretory organs & types of blood circulation in different Phyla of animal Kingdom.

**Q26-** With the help of a suitable diagrams, describe the secondary growth or growth in the girth in Angiosperms.

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