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**Subject: Biology**

**Topic: Fungi , Virus , Viroids & Prions**

**M.M. 200 COMPETITIVE TEST**  **Time: 60 Min.**

1. Fungi generally grow in :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Cold & humid place | b) Warm & humid place | c) Cold & dry place | d) Warm & dry place |

1. Sequence of sexual cycle is

|  |  |
| --- | --- |
| a) Plasmogamy Meiosis Karyogamy | b) Plasmogamy Karyogamy Meiosis |
| c) Meiosis Karyogamy Plasmogamy | d) Karyogamy Plasmogamy Meiosis |

1. Yeast is

|  |  |  |  |
| --- | --- | --- | --- |
| a) Unicellular protist | b) Multicellular protist | c) Multicellular fungi | d) Unicellular fungi |

1. The basis of classification is

|  |  |
| --- | --- |
| a) Morphology of mycelium | b) Mode of spore formation |
| c) Fruiting bodies | d) All the above |

1. Thread-like structure found in the body of a fungus are

|  |  |  |  |
| --- | --- | --- | --- |
| a) Filamentous | b) Trichomes | c) Hypae | d) Both (a) & (b) |

1. Which is not produced in sexual reproduction of fungi

|  |  |  |  |
| --- | --- | --- | --- |
| a) Ascospores | b) Sporangiospores | c) Basidiospores | d) Oospores |

1. During sexual reproduction fusion of protoplasm (cytoplasm) of two mycelium is called as

|  |  |  |  |
| --- | --- | --- | --- |
| a) Plasmogamy | b) Meiosis | c) Karyogamy | d) Karyokinesis |

1. Dikaryophase has

|  |  |
| --- | --- |
| a) Pairs of cells | b) Two haploid nuclei per cell |
| c) One diploid nucleus per cell | d) Two diploid nuclei per cell |

1. Dikaryophase occurs in

|  |  |  |  |
| --- | --- | --- | --- |
| a) Deuteromycetes | b) Ascomycetes | c) Basidiomycetes | d) Both (b) & (c) |

1. Which is an edible fungus

|  |  |  |  |
| --- | --- | --- | --- |
| a) Claviceps | b) Agaricus | c) Aspergillus | d) Penicillium |

1. Antibiotic is got from

|  |  |  |  |
| --- | --- | --- | --- |
| a) Gelidium | b) Ulothrix | c) Yeast | d) Penicillium |

1. What is true about fungi

|  |  |
| --- | --- |
| a) They are heterotrophs | b) They lack nuclear membrane |
| c) They lack phagotrophs | d) They lack rigid cell wall |

1. Main component of fungus cell wall is

|  |  |  |  |
| --- | --- | --- | --- |
| a) Cellulose | b) Chitin | c) Pectin | d) Dextrin |

1. Algal fungi is name of

|  |  |  |  |
| --- | --- | --- | --- |
| a) Ascomycetes | b) Basidiomycetes | c) Phycomycetes | d) Deuteromycetes |

1. *Phytophthora infestans* causes

|  |  |
| --- | --- |
| a) Early blight of potato | b) Late blight of potato |
| c) White rust | d) Stem rust |

1. Fungus *albugo* is member of

|  |  |  |  |
| --- | --- | --- | --- |
| a) Phycomycetes | b) Ascomycetes | c) Basidiomycetes | d) Deuteromycetes |

1. LSD is obtained from

|  |  |
| --- | --- |
| a) *Claviceps purpurea* | b) *Papaver somniferum* |
| c) *Cannabis sativa* | d) *Aspergillus oryzae* |

1. Which one produces alcohol

|  |  |
| --- | --- |
| a) *Clostridium Botulism* | b) *Torulopsis utilis* |
| c) *Leuconostoc citrovorum* | d) *Saccharomyces cerevisiae* |

1. Yeast and penicillin are included under

|  |  |  |  |
| --- | --- | --- | --- |
| a) Basidiomycetes | b) Ascomycetes | c) Phycomycetes | d) Deuteromycetes |

1. Which one of the fungi is a laboratory weed

|  |  |  |  |
| --- | --- | --- | --- |
| a) *Penicillium* | b) *Aspergillus* | c) *Yeast* | d) *Neurospora* |

1. Which is not applicable to ascomycetes

a) Mycelium is aseptate and coenocytic

b) Commonly called as “sac fungi”

c) Conidia as asexual spores produced exogenously

d) Sexual spores ascospores produced endogenously

1. *Neurospora,* the drosophila of plant kingdom belongs to

|  |  |  |  |
| --- | --- | --- | --- |
| a) Ascomycetes | b) Basidiomycetes | c) Deuteromycetes | d) Phycomycetes |

1. *Calviceps purpurea* is causal organism of

|  |  |  |  |
| --- | --- | --- | --- |
| a) Rust of wheat | b) Smut of Barley | c) Ergot of rye | d) Powdery mildew |

1. Deuteromycetes commonly called as

|  |  |  |  |
| --- | --- | --- | --- |
| a) Club fungi | b) Bracket fungi | c) Sac fungi | d) Imperfect fungi |

1. *Aspergillus* belongs to

|  |  |  |  |
| --- | --- | --- | --- |
| a) Zygomycetes | b) Oomycetes | c) Ascomycetes | d) Basidiomycetes |

1. The term virus was introduced by

|  |  |  |  |
| --- | --- | --- | --- |
| a) Jenner | b) Ivanowsky | c) Pasteur | d) Beijerinck |

1. Read the given statements and answer the following questions
2. Some members are saprophytes or parasites, while a large number of them are decomposers of little and help in mineral cycling.
3. They reproduce only by asexual spores known as conidia.
4. Mycelium is septate and branched.
5. *Alternaria , Colletotrichum , Tricoderma* are examples of this class.

Which of the following class of fungi is being described by the above statements?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Phycomycetes | b) Deuteromycetes | c) Basidiomycetes | d) Ascomycetes |

1. TMV is

|  |  |  |  |
| --- | --- | --- | --- |
| a) Polyhedral | b) Helical | c) Binal | d) Spherical |

1. Capsid is

|  |  |
| --- | --- |
| a) Viral enzyme | b) Viral protective coat |
| c) Genetic material of virus | d) Virus in lysogenic state |

1. A bacteriophage kills

|  |  |  |  |
| --- | --- | --- | --- |
| a) A virus | b) A bacterium | c) A fungus | d) A cyanobacterium |

1. Virus cannot multiply itself because they

|  |  |
| --- | --- |
| a) Lack cellular machinery | b) Lack genetic material |
| c) Lack sex organs | d) Are auto immune |

1. “*Contagium vivum fluidium”* was proposed by

|  |  |  |  |
| --- | --- | --- | --- |
| a) Ivanowsky | b) Beijerinck | c) Stanley | d) Robert Hooke |

1. Which one of the following matches is correct?

|  |  |  |  |
| --- | --- | --- | --- |
| (a) | *Alternaria* | Sexual reproduction absent | Deuteromycetes |
| (b) | *Mucor* | Reproduction by conjugation | Ascomycetes |
| (c) | *Agaricus* | Parasitic fungus | Basidiomycetes |
| (d) | *Phytophthora* | Aseptate mycelium | Basidiomycetes |

1. Edible mushroom *Agaricus* belongs to

|  |  |  |  |
| --- | --- | --- | --- |
| a) Zygomycetes | b) Oomycetes | c) Ascomycetes | d) Basidiomycetes |

1. Read the given statements and answer the following questions
2. It include unicellular as well as multicellular fungi
3. In multicellular form, hypae are branched and septate
4. Conidiophore produce conidia exogenously in a chain
5. Sexual spores are ascospores produced endogenously.
6. Fruiting body is ascocarps.

Which of the following class of fungi is being described by the above statements?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Phycomycetes | b) Sac fungi | c) Club fungi | d) Fungi imperfecti |

1. Rhizopus is popularly called as

|  |  |  |  |
| --- | --- | --- | --- |
| a) Bread mould | b) Dung mould | c) blue green mould | d) Orange mould |

1. A fungus that form a pseudomycelium is

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| a) *Rhizopus* | b) *Penicillium* | c) *Alternaria* | d) *Saccharomyces* |  |

1. Ascomycetes multiply asexually through

|  |  |  |  |
| --- | --- | --- | --- |
| a) Sporangiospores | b) Endospores | c) Conidiophores | d) Ascospores |

1. Basidiospores are produced

|  |  |
| --- | --- |
| a) Exogenously, two form each basidium | b) Exogenously, four form each basidium |
| c) Endogenously, two in each basidium | d) Endogenously, four in each basidium |

1. Which of the following is wrong for fungi

|  |  |
| --- | --- |
| a) They are both unicellular and multicellular | b) They are eukaryotes |
| c) All fungi possess cellulosic cell wall | d) They are heterotropic |

1. Which of the following statements is correct?

a) Some of the organism can fix atmospheric nitrogen in specialized cells called sheath cells.

b) Fusion of two cells is called Karyogamy.

c) Fusion of protoplasm between two gametes is called plasmogamy.

d) Organisms that depend upon living plants are called saprophytes.

1. Read the given statements and answer the following questions
2. They are found in aquatic habitats and on decaying wood in moist and damp places
3. Mycelium is aseptate and coenocytic
4. Asexual reproduction takes place by zoospores or aplanospores
5. *Mucor , Rhizopus , Albugo* are examples of this class.

Which of the following class of fungi is being described by the above statements?

|  |  |  |  |
| --- | --- | --- | --- |
| a) Ascomycetes | b) Phycomycetes | c) Basidiomycetes | d) Deuteromycetes |

1. After Karyogamy spores are produced exogenously in

|  |  |  |  |
| --- | --- | --- | --- |
| a) *Agaricus* | b) *Alternaria* | c) *Neurospora* | d) *Saccharomyces* |

1. Match column I and column II

|  |  |
| --- | --- |
| Column I | Column II |
| A. Ascomycetes | I.  *Rhizopus* |
| B. Basidiomycetes | II.  *Penicillium* |
| C. Deuteromycetes | III.  *Ustilago* |
| D. Phycomycetes | IV.  *Alternaria* |

|  |  |
| --- | --- |
| a) A – IV ; B – III ; C – I ; D – II | b) A – II ; B – III ; C – IV ; D – I |
| c) A – IV ; B – I ; C – II ; D – III | d) A – III ; B – IV ; C – II ; D – I |

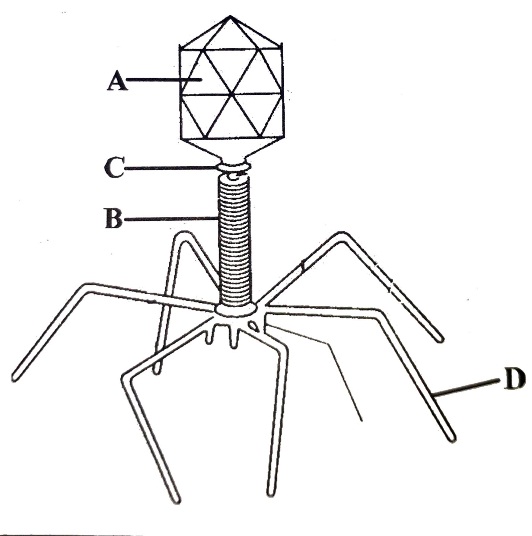
1. The imperfect fungi Which are decomposers of little and help in mineral cycling belong to :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Basidiomycetes | b) Deuteromycetes | c) Ascomycetes | d) Phycomycetes |

1. Fungi are filamentous with the exception of “X” which is unicellular. Identify “X”.

|  |  |  |  |
| --- | --- | --- | --- |
| a) *Yeast* | b) *Mucor* | c) *Albugo* | d) Lichens |

1. Identify the labelled structure



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | A | B | C | D |
| (a) | Tail fibres | Head | Sheath | Collar |
| (b) | Sheath | Collar | Head | Tail fibres |
| (c) | Head | Sheath | Collar | Tail fibres |
| (d) | Collar | Tail fibres | Head | Sheath |

1. Tobacco mosaic virus was crystallized explained by

|  |  |  |  |
| --- | --- | --- | --- |
| a) W.M. Stanley | b) Stackman | c) Smith | d) Jenner |

1. Clamp connection is found in :

|  |  |  |  |
| --- | --- | --- | --- |
| a) Basidiomycetes | b) Ascomycetes | c) Deuteromycetes | d) Phycomycetes |

1. Coenocytic hypae

|  |  |  |  |
| --- | --- | --- | --- |
| a) Aseptate | b) Multinucleate | c) Continuous tube | d) All the above |

**[Class =11th]**

**Answers**

**Topic: Fungi , Virus , Viroids & Prions**

|  |
| --- |
| 1. b |
| 1. b |
| 1. d |
| 1. d |
| 1. c |
| 1. b |
| 1. a |
| 1. b |
| 1. d |
| 1. b |
| 1. d |
| 1. a |
| 1. b |
| 1. c |
| 1. b |
| 1. a |
| 1. a |
| 1. d |
| 1. b |
| 1. b |
| 1. a |
| 1. a |
| 1. c |
| 1. d |
| 1. c |

|  |
| --- |
| 1. c |
| 1. b |
| 1. b |
| 1. b |
| 1. b |
| 1. a |
| 1. b |
| 1. a |
| 1. d |
| 1. b |
| 1. a |
| 1. d |
| 1. c |
| 1. b |
| 1. c |
| 1. c |
| 1. b |
| 1. a |
| 1. b |
| 1. b |
| 1. a |
| 1. c |
| 1. a |
| 1. a |
| 1. d |