

EDUCATIONAL  
**STARS ENTRY TEST SYSTEM-2021**  
**NMDCAT REPEATERS**

Test Code: B3 [Variety of Life (Protoctista, Fungi, Plantae)]

Time Allowed: 40 Min

1. **Saccharomyces cerevisiae** is so important to humans because it:  
A) Is responsible for most citric acid production  
B) Can be used as a model to understand many human diseases  
C) Uses sugars to produce CO<sub>2</sub> during bread making  
D) Is responsible for almost all the alcohol production worldwide
2. Two words comprising the binomial nomenclature are:  
A) Family & genus  
B) Order & family  
C) Genus & species  
D) Species & variety
3. **Stentor** belong to which of following protozoa.  
A) Apicomplexans  
B) Zooflagellates  
C) Ciliates  
D) Actinopods
4. In angiosperm, the endosperm nucleus is \_\_\_\_\_.  
A) Triploid  
B) Diploid  
C) Tetraploid  
D) Haploid
5. Female gametophyte is also known as:  
A) Ovule  
B) Egg-apparatus  
C) Nucellus  
D) Embryo sac
6. **Bryophytes** are dependent on water because  
A) Archegonium has to remain filled with water for fertilization  
B) Water is essential for fertilization for their ~~homospitous~~ hetero nature  
C) Water is essential for their vegetative propagation  
D) The sperms can easily reach upto egg in the archegonium
7. Pick up non motile algae from following:  
A) Dinoflagellates  
B) Green Algae  
C) Red Algae  
D) Euglenas
8. **Rhodotorula** is also known as:  
A) Pink Yeast  
B) Yellow mold  
C) Pink bread mold  
D) Reindeer moss
9. \_\_\_\_\_ is used to lower the blood pressure.  
A) Lovastatin  
B) Griseofulvin  
C) Ergotine  
D) Cyclosporine
10. Powdery mildews may attack on \_\_\_\_\_.  
A) Grapes  
B) Rose  
C) Wheat  
D) All of these
11. Which of the following don't have flagellated motile cells in any phase of life cycle?  
A) Phaeophyta  
B) Chlorophyta  
C) Bacillariophyta  
D) Rhodophyta
12. Spores in fungi are \_\_\_\_\_.  
A) Diploid  
B) Haploid  
C) Monoploid  
D) Polyploid
13. The arrangement of flowers on the flora axis is known as:  
A) Venation  
B) Phyllotaxy  
C) Anthology  
D) Inflorescence
14. Rust and bracket fungi belong to which of following phylum  
A) Zygomycota  
C) Basidiomycota



15. Radiolarians belongs to which of following protozoa  
 A. Amoeba  
 B. Ciliates  
 C. Actinopods  
 D. Foraminifera
16. Pick up Giant Amoeba from following  
 A) Pelomyxa  
 B) Trichonymphas  
 C) Methanogenic Amoeba  
 D) Trypanosoma
17. Embryo of flowering plant is always:  
 A) Haploid (n)  
 B) Diploid (2n)  
 C) Triploid (3n)  
 D) Tetraploid (4n)
18. Stamen is a modification of \_\_\_\_\_.  
 A) Leaf  
 B) Microsporophyll  
 C) Megasporophyll  
 D) Shoot
19. What is a microspore?  
 A) Male gamete  
 B) Last cell of male gametophyte  
 C) First cell of male gametophyte  
 D) Diploid cell
20. What is the source of embryo sac?  
 A) Microscope  
 B) Zygote  
 C) Egg cell  
 D) Megaspore
21. An egg-apparatus consists of:  
 A) An egg + two antipodals  
 B) An egg + Two synergids  
 C) An egg + Secondary nucleus  
 D) Antipodal cell + synergid
22. Which of the following is independent in bryophytes?  
 A) Gametophyte  
 B) Sporophyte  
 C) Prothallus  
 D) Triploid
23. In pteridophytes, the archegonia at prothallus are normally formed near \_\_\_\_\_.  
 A) Rhizoids  
 B) Terminal notch  
 C) Central thick portion  
 D) Disperse randomly
24. Gangrene is the symptom of:  
 A) AIDS  
 B) Aspergillosis  
 C) Ergotism  
 D) Candidosis
25. Truffles are underground fruiting bodies of species:  
 A) Agaricus  
 B) Tuber  
 C) Morchella  
 D) Amanita
26. A protist is any organism that is not a plant, an animal, a fungus, or a:  
 A) Eukaryote  
 B) Eubacterium  
 C) Prokaryote  
 D) Archaeobacterium
27. In an amoeba, a small cavity within the cytoplasm that stores food is called as:  
 A) Gullet  
 B) Food vacuole  
 C) Pseudopod  
 D) Contractile vacuole
28. Which substances allow algae to harvest and use the energy from sunlight?  
 A) Cilium and fucoxanthin  
 B) Chlorophyll and accessory pigments  
 C) Phycobilin and flagellum  
 D) Oogonium and antheridium
29. What is an algal bloom?  
 A) The clouding of water by sewage  
 B) An enormous mass of algae  
 C) A symbiotic relationship between algae and coral  
 D) None of the above
30. What characteristic of plants is shared by green algae?  
 A) Cell wall composition  
 B) Photosynthetic pigments  
 C) Multicellularity  
 D) All of the these
31. Red algae lack flagella and \_\_\_\_\_.  
 A) Nuclei  
 B) Accessory pigments  
 C) Centrioles  
 D) Chlorophyll
32. The human disease ringworm is caused by:  
 A) Worms  
 B) A fungus  
 C) Bacteria  
 D) Yeast

Which of the following is not a single organism?

- A) Rust
- B) Yeast
- C) Smut
- D) Lichen

Fungi resemble plants in that they both always

- A) Have stems
- B) Are multicellular
- C) Grow from the ground
- D) Have cell walls

35. The tangled mass that makes up the body of a fungus is the:

- A) Hypha
- B) Mycelium
- C) Rhizoid
- D) Stolon

36. Red tides are made up which of following

- A) Dinoflagellates
- B) Red Algae
- C) Green Algae
- D) Brown Algae

37. Most fungi reproduce by

- A) Asexually only
- B) Both sexually and asexually
- C) Sexually only
- D) By budding.

38. Funaria and polytrichum belongs to which of following

- A) liverworts
- B) moss
- C) fern
- D) Angiosperms

39. Which of the following sequence is correct?

- A) Strobili - Sporophyll → Sporangia → Spores
- B) Strobili - Sporangia → Sporophylls → Spores
- C) Sporophylls - Strobili → Sporangia → Spores
- D) Spores - Sporangia → Strobili → Cones

40. Horse tails belongs to which of following phylum

- A) Psilopsida
- B) Lycoprida
- C) Sphenopsida
- D) Pteropsida

41. \_\_\_\_\_ is a most diverse group of organisms.

- A) Plantae
- B) Animalia
- C) Fungi
- D) Protista

42. \_\_\_\_\_ upgraded the bacteria to a rank of Kingdom.

- A) Herbert Copeland
- B) Robert Whittaker
- C) Hrrnst Hackael
- D) J. Hogg

43. \_\_\_\_\_ controls the metabolism in paramecium.

- A) Micronucleus
- B) Macronucleus
- C) Meganucleus
- D) All of these

44. The spores of plasmodium is entered into human body as:

- A) Sporozoites
- B) Merozoites
- C) Gametocytes
- D) Xerozoites

45. There are eight spores are produced in the ascocarp in results of:

- A) Meiosis followed by mitosis
- B) Mitosis followed by meiosis
- C) Mitosis and meiosis run parallel
- D) None of these

46. Which of the following belongs to the category of cryptogam?

- A) Fungi
- B) Algae
- C) Bryophytes
- D) All of these

47. Oospore is actually a

- A) Spore
- B) Zygote
- C) Gametophyte
- D) Sporophyte

48. Oospore is actually a/ an:

- A) Spore
- B) Gametophyte
- C) Zygotic
- D) Sporophyte

49. Sea fungi belong to which of following phylum

- A) Zygomycota
- B) Ascomycota
- C) Basidiomycota
- D) Deuteromycota

50. \_\_\_\_\_ is a parasite of large intestine of human belngs and causes the disease \_\_\_\_\_.

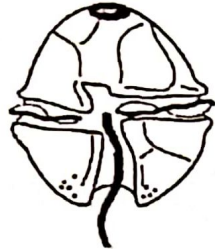
- A) Escherichia coli, amoebic dysentery
- C) Plasmodium vivax, malaria



~~B)~~ Entamoeba histolytica, amoebic dysentery D) Trypanosoma gambiense, sleeping sickness

51. Gametophytic and sporophytic phases are independent in  
A) Pteridophytes C) Gymnosperms  
B) Bryophytes D) Phaeophytes

52. Which group of organisms is represented by the given figure?



- A) Diatoms  
B) Bacteria  
C) ~~Dinoflagellates~~  
D) Euglenoids

53. Red tides in warm coastal water develop due to the abundance of  
A) ~~Dinoflagellates~~ C) Diatoms and desmids  
B) Euglenoids D) Green algae

54. Diatoms belong to which of following  
A) Pyrrophyta C) Phacophyta  
B) ~~Chrysophyta~~ D) Rhodophyta

55. Protozoa reproduce by several methods which protozoan reproduces both by binary fission and conjugation:

- A) Amoeba C) Zoofalgellates  
B) Euglena D) ~~Paramecium~~

56. Conjugation is a sexual reproduction in which of following animal  
A) Paramecium C) Vorticella  
B) Bacteria D) ~~All of these~~

57. Evidence from ..... also indicate that green algae and the plants form a monophylet lineage.

- A) DNA sequencing C) Protein sequencing  
B) ~~RNA sequencing~~ D) Lipid sequencing

58. Clitoria ternatea is used against  
A) Dog bite C) Horse bite  
B) Insect bite D) Snake bite

59. Ciliates can be differentiated from all other protozoan's is:  
A) Not having flagella for locomotion  
B) Capturing prey with the help of pseudopodia  
C) ~~Having two types of nuclei~~  
D) Having contractile vacuoles

60. ~~Red tide is because of~~  
~~B) Desmids~~ C) Euglena E  
B) Ceratium G.A D) Red algae L.A  
CK