

Olabisi Onabanjo University, Ago-Iwoye,
 Department of Plant Science And Applied Zoology
 Rain Semester, 2004/2005 Session, B.Sc. B.Ed Degree, EXAMINATION (Feb 2008)
BIO 102: MONERA AND PLANT DIVERSITY

Mat Number	Name (Surname first) ADISEGUN ADEBUNOLA
Database ID No	Dept: GEOGRAPHY & REGIONAL PLANNING
	Unit within Dept:

Instruction: In the answer sheet provided, tick X in the most appropriate option that completes or answers each of the following questions.

Time allowed 60 Minutes

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Answer Questions 58-70 strictly in the spaces provided below				
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1. How many kingdoms are in the family tree of life?
(A) One (B) Three (C) Five (D) Seven
2. All of the following are lacking during reproduction in bacteria EXCEPT (A) Mitosis (B) Regeneration (C) Meiosis (D) Binary fission
3. Which of the following is NOT a general feature of bacteria? (A) Germs (B) Coexist with man (C) First to exist (D) Photosynthetic
4. Monera is the same as (A) Ferns (B) Virus (C) Fungi (D) Bacteria
5. All of the following are true of bacteria EXCEPT: (A) Unicellular (B) Multicellular (C) Prokaryote (D) Peptidoglycan cell wall
6. All of the following are features of Archaea bacteria EXCEPT: (A) Halophiles (B) Mesophiles (C) Acidophiles (D) Alkaliphiles
7. Fossils of bacteria can only be seen by (A) Hand lens (B) Sharp eyes (C) Telescope (D) Microscope
8. Psychrophiles Archaea bacteria prefers habitat with extreme (A) Salt (B) Hot temperature (C) Cold temperature (D) Alkaline
9. Peptidoglycan cell wall is peculiar to (A) Bacteria (B) Plants (C) Animals (D) Fungi
10. All of the following are true of Gram-negative bacterial EXCEPT: (A) Lipopolysaccharides (B) Thick (C) Thin (D) Do not retain dye
11. Bacteria move in a unidirectional way by the following mechanisms EXCEPT: (A) Propel (B) Glide (C) Corkscrew (D) Hop
12. Monera receptors detect the following EXCEPT: (A) Oxygen (B) Food (C) Toxins (D) Sunlight
13. In which of the nutritional methods is light not required? (A) Photoautotrophic (B) Photoheterotrophic (C) Phototrophic (D) Chemoautotrophic
14. In which of the following organisms did photosynthesis first originate? (A) Virus (B) Bacteria (C) Algae (D) Plants

Answers to questions 15-20 should be chosen from the following four options (A) Cyanobacteria (B) Archaea

Examples of false-mosses: Irish moss, a red alga
 Reindeer moss, a lichen; club moss, a pteridophyte,
 Spanish moss, a plant in pineapple family

(C) Facultative anaerobes (D) Nitrogen

(15) is important in metabolism (16) Survives either in the presence or absence of oxygen (17) is a photosynthetic bacteria (18) uses by nitrosomes (19) paved the way to today's algae and plants (20) is an indicator of how life evolved on our planet.

21. All the following are the divisions of fungi EXCEPT: (A) Rhizomycota (B) Zygomycota (C) Ascomycota (D) Basidiomycota

22. Which of the following fungi grow from parasitic to decomposer as the host dies (A) Club (B) Sac (C) Zygote (D) Spore

23. Which of the following Examples lack chlorophyll-a? (A) Bryophytes (B) Pteridophytes (C) Angiosperms (D) Fungi

24. Which of the following fungi shoot their spores in a projectile way (A) Pilobolus (B) Rhizopus (C) Puffball (D) Yeast

25. All of the following examples are spore-bearing plants EXCEPT: (A) Moss (B) Mushroom (C) Ferns (D) Cyanobacteria

26. Which of the following word or phrase is not true about fungi? (A) Produce seeds in capsule (B) Hyphae (C) Lichen (D) Decomposer

27. Which of the following carbohydrates is the fungi cell walls made of? (A) Cellulose (B) Chitin (C) Lignin (D) Glycin

28. Fungi Hyphae branch and rebranch to form a network called what? (A) Mycelium (B) Branches (C) Lumen (D) Net

29. Fungi cause diseases in all of the following EXCEPT: (A) Man (B) Wild animals (C) Air crafts (D) Fishes

30. *Aspergillus niger* is involved in the preparation of: (A) Citric acid (B) Tectonic acid (C) Oxalic acid (D) Gluconic acid

31. All of the following asexual reproduction in fungi are correct EXCEPT: (A) Fusion (B) Budding (C) Spore formation (D) Fragmentation

32. Fungi do not live as (A) Parasites (B) Symbiotes (C) Hyperparasites (D) Autotrophs

33. All of these features are found within the fungal hypha EXCEPT: (A) Xylose (B) Nuclei (C) Cytoplasm (D) Mitochondria

34. All these elements are required by fungi EXCEPT: (A) Carbon (B) Copper (C) Zinc (D) Selenium

35. All of these features are used to classify fungi into five divisions EXCEPT: (A) Spore (B) Hyphae (C) Life cycle (D) Structures

36. Which of the following plants is the first to occupy a bare area? (A) Pine (B) Fungi (C) Lichen (D) moss

37. Which of the following is not an EXAMPLE of asexual spores? (A) Conidiospore (B) Zoospore (C) Conidiophore (D) Thallospore

38. Sporophytes produce future (A) Spores (B) Gametophores (C) Egg (D) Sperms

39. Bryophytes can be found in the following environments EXCEPT: (A) Soil (B) Rock (C) Trees (D) Marine

40. Which of the following features is developed in a bryophyte after fertilization? (A) Zygote (B) Capsule

(C) Sporophyte (D) Spore

41. In some plants the sperm requires ___ of water to swim to the egg. (A) Pool (B) Film (C) Drops (D) Stream

42. In archegonia, fertilization of egg, including film of water, is regulated by (A) Sugary substance (B) Rain (C) Smoke (D) Wind

Answers to questions 46-49 should be chosen from among (A) Gemmae (B) Rain drops (C) Mungo Park (D) Polysely

43. Which one is inspired by a growing moss (B)

44. Which one helps to disperse asexual features in the liverworts

45. Which is an asexual structure in the liverworts

46. Which is a bryophyte with more than one sporophytes

47. All of the following below are bryophytes EXCEPT: (A) Club moss (B) Liverwort (C) Hornwort (D) Moss

48. All of the following are nonvascular EXCEPT: (A) Moss (B) Fungi (C) Lichen (D) Pteridophyte

49. All of the following features characterize the Pteridophyta EXCEPT: (A) Prothallus (B) Nonvascular (C) Heterospory (D) Homospory

50. *Saccharomyces cerevisiae* is used for the extraction of which enzyme? (A) Invertase (B) Invertose (C) Glycogen (D) Glucose

51. Zygomycota is a division of (A) Sac fungi (B) Club fungi (C) Zygote fungi (D) Spore fungi

52. All of the following are mechanism of water uptake in bryophytes EXCEPT: (A) Osmosis (B) Capillary (C) Evaporation (D) Diffusion

53. Most parasitic mushrooms are found on (A) Trees (B) Soil (C) Water (D) Air

54. Which of the following diseases is caused by fungi? (A) AIDS (B) Malaria (C) Candidiasis (D) Typhoid

55. *Rhizopus* spp belong to which kingdom (A) Monera (B) Protista (C) Fungi (D) Plantae

56. Which of the following plant hormones produced by *Giberella fujikuroi* (A) Fujikurin (B) Giberehu (C) Gibereillin (D) Toxin

57. Puffballs are examples of (A) Ascomycota (B) Basidiomycota (C) Zygomycota (D) Lichens

Write the correct answers for the rest of the questions strictly in the spaces provided

Which antibiotic was first extracted by Alexander Fleming?

(58) Fungi difficult to classify are placed in a group called

(59) In Siberia which fungus, when eaten, was believed to aid in receiving messages from God (60)

Fungi that lack chlorophyll are referred to as (61) Which

mode of nutrition is used by most fungi? (62) Fungi that

survive at 0°C are called (63) *Neurospora* is used to study

loss of heredity by (64) Which fungus was of religious

interest to the ancient Greek (65) Which gas is produced

during fermentation of sugar by yeasts? (66) The

Ascomycota have a sac-like reproductive structure called

(67) Closely following the fungal cell wall is the (68) Fungi

store excess food in the form of (69) or (70)