PAPER CODE : 6106

M Sc Semester-III

Botany - New Course

BOTEC -302-Marine Botany

કુલ સમય :– ૩૦ મીનીટ કુલ પ્રશ્નો : ૩૫ વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૨૫

નોંધ : વિદ્યાર્થીએ માત્ર ૨૫ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૨૫ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

1. The place where an organism lives

A. terrain B.habitat C. community D.population

2. In marine ecosystem, primary production tends to be highest

A. towards tropical latitudes B.in the open ocean

C. along coastal areas D.None of these

3. The law of Physics stating "some energy will be lost as heat in any conversion process" is readily applied in ecosystem ecology to understand

A. energy transfer efficiency across trophic levels B.the absorption of sun light by primary producers

C. the cycles of chemical elements D.all of these

4. Which of the following diseases or infections is caused due to poor water hygiene?

A. Leprosy B. Trachoma C. Conjunctivitis D. All of the above

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6. Which of the following statements is true about the composition of Calcium Carbonate ($CaCo_3$) in soft water?

A. 0 to 30 milligrams of $CaCO_3$ per litre B. 30 to 60 milligrams of $CaCO_3$ per litre

C. 60 to 90 milligrams of $CaCO_3$ per litre D. 90 to 120 milligrams of $CaCO_3$ per litre

7. Which of the following salts are the main causes of temporary hardness?

A. Calcium sulphate B. Magnesium sulphate C. Magnesium chloride D. Magnesium carbonate

8. According to the Geological survey, water with less than 1000 ml/litre of total dissolved solids is _____.

A. Brine water B. Freshwater C. Slightly saline D. Moderately saline

9. Water that is good enough to drink is called

A. Potable water B.Ground water C. Surface water D.Artesian water

10.Precipitation is usually expressed in which of the following units?

A. ml B. g/m^2 C. mm D. m^3

11.The change of liquid to water vapour

A. condensation B.evaporation C. water table D.precipitation

12. The process through which water moves between the oceans, sky and land

A. rock cycle B.river cycle C. life cycle D.hydrologic cycle

13. Organisms which are predominantly found living on, in or near bed sediments of rivers or lakes are known as

A. Benthic B.Nektonic C. Neuston D.Planktonic

14. Which of the following are the primary causes of water pollution?

A. Plants B. Animals C. Human activities D. None of these

15. The main sources of Arsenic in water are _____.

A. Floods B. Fertilizers C. Industrial waste D. Both b and c

16. In most freshwater lakes, the algal productivity is limited by the availability of which of the following inorganic ions?

A. Carbon B. Nitrogen C. Phosphorus D. All of the above

17. Which of the following is not a part of microbial loops?

A. Bacteria B. Flagellates C. Ciliates D. Macrofauna

18. Eutrophication results in reduction of

A. dissolved nitrate B.dissolved oxygen C. mineral salts D.parasitic protozoa

19. Algal bloom results in

A. global warming B. Salination C. eutrophication D. biomagnification

20 Eutrophication is often seen in

A. mountains B. deserts C. fresh water lakes D. ocean

21. Growth in a closed system, affected by nutrient limitation and waste product accumulation is called

A batch culturing B. fruiting body C. sporangiosphore D. ascus

22. The H-O-H bond angle in water molecule is

A. 104^{o} B.104.5^{o} C. 105^{o} D. 105.5^{o}

23. Water is a/an

A. polar solvent B. non-polar solvent

C. amphipathic solvent D. non-polar uncharged solvent

24. Which of the following instrument is used to measure turbidity?

A. Olfactometer B. Turbidity meter C. Colorimeter D. Spectrophotometer

25.Which of the following are the primary causes of water pollution?

A. plants B. animals C. human activities D. none of these

26.What is the indicator of pollution in water?

A.amount of oxygen B. amount of hydrogen C. amount of nitrogen D. amount of BOD

27.Why controlled use of water hyacinth is important in controlling of water pollution?

A. to decrease the BOD level B. to increase the BOD level

C. to completely vanish the BOD level D. to maintain the BOD level

28.In which form is water the purest?

A. solid ice B. clear liquid C. steam vapour D. both A and B

29. Which of the following gases are produced in large amounts during sludge digestion?

A. methane B. carbon-dioxide C. hydrogen D. nitrogen

30. What percentage of the earth's surface is covered with water

A. about 51% B. about 21% C. about 81% D. about 71%

31. What is the natural value of pH Scale

A. Less than 5 B. Less than 8 C. Less than 10 D. equal to 7

32. In which of the following field pH scale is important for measurement?

A. Hydrology B. Agriculture Science C. Soil Science D. All of These

33. What is the pH value of Marine Water?

A. less than 7 B. Equal to 7 C. Greater than 7 D. None of These

34.The flow of water from the land surface into the subsurface is:

A. permeation B. Infiltration C. admission D. penetration

35.An aquifer containing groundwater that has an impermeable layer below but not above it is called a(n)

A. unconfined aquifer B. confined aquifer C. restricted aquifer D. upper aquifer