

Class: 12

Register  
Number

WELL DONE MATRIC. HR. SEC. SCHOOL, T. T. PURAM.

BIO - ZOOLOGY

Marks: 59

Book Back One Mark Questions (Chapter 7–12)

1. A 30 year old woman has bloody diarrhoea for the past 14 hours, which one of the following organisms is likely to cause this illness?
  - a) *Streptococcus pyogenes*
  - b) *Clostridium difficile*
  - c) *Shigella dysenteriae*
  - d) *Salmonella enteritidis*
2. Exo-erythrocytic schizogony of *Plasmodium* takes place in \_\_\_\_\_
  - a) RBC
  - b) Leucocytes
  - c) Stomach
  - d) Liver
3. The sporozoites of *Plasmodium vivax* are formed from \_\_\_\_\_
  - a) Gametocytes
  - b) Sporoblasts
  - c) Oocysts
  - d) Spores
4. Amphetamines are stimulants of the CNS, whereas barbiturates are \_\_\_\_\_
  - a) CNS stimulant
  - b) hallucinogenic
  - c) CNS depressants
  - d) both a and b
5. Choose the correctly match pair.
  - a) Amphetamines – Stimulant
  - b) LSD - Narcotic
  - c) Heroin – Psychotropic
  - d) Benzodiazepine - Pain killer
6. The Athlete's foot disease in human is caused by \_\_\_\_\_
  - a) Bacteria
  - b) Fungi
  - c) Virus
  - d) Protozoan
7. Cirrhosis of liver is caused by chronic intake of \_\_\_\_\_
  - a) Opium
  - b) Alcohol
  - c) Tobacco
  - d) Cocaine
8. The sporozoite of the malarial parasite is present in \_\_\_\_\_
  - a) Saliva of infected female *Anopheles* mosquito.
  - b) RBC of human suffering from malaria.
  - c) Spleen of infected humans.
  - d) Gut of female *Anopheles* mosquito.
9. Match the pathogens with respective diseases caused by them and select the correct match using the codes given below.
 

a) <i>Leishmania donovani</i>	- I. Amoebiasis	a) A-II, b) B-IV c) C-III d) D-I
b) <i>Wuchereria bancrofti</i>	- II. Kala azar	b) A-II, b) B-IV c) C-I d) D-III
c) <i>Trypanosoma gambiense</i>	- III. sleeping sickness	c) A-III, b) B-I c) C-II d) D-IV
d) <i>Entamoeba histolytica</i>	- IV. filariasis	d) A-I, b) B-IV c) C-III d) D-II
10. Paratope is an
  - a) Antibody binding site on variable regions
  - b) Antibody binding site on heavy regions
  - c) Antigen binding site on variable regions
  - d) Antigen binding site on heavy regions
11. Allergy involves
  - a) IgE
  - b) IgG
  - c) IgA
  - d) IgM

12. Spread of cancerous cells to distant sites is termed as  
a) Metastasis                      b) Oncogenes      c) Proto-oncogenes                      d) Malignant neoplasm
13. AIDS virus has  
a) Single stranded RNA                      b) Double stranded RNA  
c) Single stranded DNA                      d) Double stranded DNA
14. B cells that produce and release large amounts of antibody are called  
a) Memory cell                      b) Basophils  
c) Plasma cells                      d) killer cells
15. Which of the following microorganism is used for production of citric acid in industries?  
a) *Lactobacillus bulgaris*                      b) *Penicillium citrinum*  
c) *Aspergillus niger*                      d) *Rhizopus nigricans*
16. Which of the following pair is correctly matched for the product produced by them?  
a) *Acetobacter aceti* – Antibiotics                      b) *Methanobacterium* - Lactic acid  
c) *Penicillium notatum* - Acetic acid                      d) *Saccharomyces cerevisiae* - Ethanol
17. The most common substrate used in distilleries for the production of ethanol is \_\_\_\_\_  
a) Soyameal      b) Groundgram      c) Molasses      d) Corn meal
18. Cyclosporin – A is an immunosuppressive drug produced from \_\_\_\_\_  
a) *Aspergillus niger*                      b) *Manascus purpureus*  
c) *Penicillium notatum*                      d) *Trichodermapolysporum*
19. CO<sub>2</sub> is not released during  
a) Alcoholic fermentation      b) Lactate fermentation      c) Aerobic respiration in animals  
d) Aerobic respiration in plants
20. The purpose of biological treatment of waste water is to  
a) Reduced BOD      b) Increase BOD      c) Reduce sedimentation      d) Increase sedimentation
21. The gases produced in anaerobic sludge digesters are  
a) Methane, Oxygen and hydrogen sulphide  
b) Hydrogen sulphide, Methane and sulphur dioxide  
c) Hydrogen sulphide, nitrogen and methane  
d) Methane, Hydrogen sulphide and CO<sub>2</sub>
22. The first clinical gene therapy was done for the treatment of  
a) AIDS      b) Cancer      c) Cystic fibrosis      d) SCID
23. Dolly, the sheep was obtained by a technique known as  
a) Cloning by gene transfer  
b) Cloning without the help of gametes  
c) Cloning by Tissue culture of somatic cells  
d) Cloning by nuclear transfer

24. The genetic defect adenosine deaminase deficiency may be cured permanently by
- Enzyme replacement therapy
  - Periodic infusion of genetically engineered lymphocytes having ADA cDNA
  - Administering adenosine deaminase activators
  - Introducing bone marrow cells producing ADA in embryo at an early stage of development
25. How many amino acids are arranged in the two chains of Insulin?
- Chain A has 12 and Chain B has 13
  - Chain A has 21 and Chain B has 30 amino acids
  - Chain A has 20 and chain B has 30 amino acids
  - Chain A has 12 and chain B has 20 amino acids.
26. PCR proceeds in three distinct steps governed by temperature, they are in order of
- Denaturation, Annealing, Synthesis
  - Synthesis, Annealing, Denaturation
  - Annealing, Synthesis, Denaturation
  - Denaturation, Synthesis, Annealing
27. Which one of the following statements is true regarding DNA polymerase used in PCR?
- It is used to ligate introduced DNA in recipient cells
  - It serves as a selectable marker
  - It is isolated from a Virus
  - It remains active at a high temperature
28. ELISA is mainly used for
- Detection of mutations
  - Detection of pathogens
  - Selecting animals having desired traits
  - Selecting plants having desired traits
29. Transgenic animals are those which have
- Foreign DNA in some of their cells
  - Foreign DNA in all their cells
  - Foreign RNA in some of their cells
  - Foreign RNA in all their cells
30. Vaccines that use components of a pathogenic organism rather than the whole organism are called
- Subunit recombinant vaccines
  - attenuated recombinant vaccines
  - DNA vaccines
  - conventional vaccines
31. All populations in a given physical area are defined as
- Biome
  - Ecosystem
  - Territory
  - Biotic factors
32. Organisms which can survive a wide range of temperature are called
- Ectotherms
  - Eurytherm
  - Endotherms
  - Stenotherms
33. The interaction in nature, where one gets benefit on the expense of other is...
- Predation
  - Mutualism
  - Amensalism
  - Commensalism
34. Predation and parasitism are which type of interactions?
- (+,+)
  - (+, 0)
  - , --)
  - (+, --)
35. Competition between species leads to
- Extinction
  - Mutation
  - Amensalism
  - Symbiosis
36. Which of the following is an r-species
- Human
  - Insects
  - Rhinoceros
  - Whale

37. Match the following and choose the correct combination from the options given below.
- |                 |   |  |
|-----------------|---|--|
| A. Mutualism    | - | 1. Lion and deer                         |
| B. Commensalism | - | 2. Round worm and man                    |
| C. Parasitism   | - | 3. Birds compete with squirrels for nuts |
| D. Competition  | - | 4. Sea anemone on hermit crab            |
| E. Predation    | - | 5. Barnacles attached to Whales.         |
- a) A- 4, B-5, C-2, D -3, E-1                      b) A- 3, B-1, C-4, D - 2, E-5  
 c) A- 2, B-3, C-1, D - 5, E-4                      c) A- 5, B-4, C-2, D - 3, E-1
38. The relationship between sucker fish and shark is.....
- a) Competition    b) Commensalism    c) Predation    d) Parasitism
39. Which of the following is correct for r-selected species
- a) Large number of progeny with small size                      b) Large number of progeny with large size  
 c) Small number of progeny with small size                      d) Small number of progeny with large size
40. Animals that can move from fresh water to sea called as.....
- a) Stenothermal    b) Eurythermal                      c) Catadromous                      d) Anadromous
41. Some organisms are able to maintain homeostasis by physical means
- a) Conform                      b) Regulate                      c) Migrate                      d) Suspend
42. Which of the following region has maximum biodiversity.
- a) Taiga                      b) Tropical forest                      c) Temperate rain forest                      d) Mangroves
43. Conservation of biodiversity within their natural habitat is
- a) *In situ* conservation    b) *Ex situ* conservation    c) In vivo conservation    d) In vitro conservation
44. Which one of the following is not coming under *in situ* conservation
- a) Sanctuaries                      b) Natural parks                      c) Zoological park                      d) Biosphere reserve
45. Which of the following is considered hotspots of biodiversity in India
- a) Western ghats    b) Indo-gangetic plain    c) Eastern Himalayas                      d) A and C
46. The organization which published the red list of species is
- a) WWF                      b) IUCN                      c) ZSI                      d) UNEP
47. Who introduced the term biodiversity?
- a) Edward Wilson    b) Walter Rosen                      c) Norman Myers                      d) Alice Norman
48. Which of the following forests is known as the lungs of the planet earth?
- a) Tundra forest    b) Rain forest of north east India    c) Taiga forest    d) Amazon rain forest
49. Which one of the following are at high risk extinction due to habitat destruction
- a) Mammals                      b) Birds                      c) Amphibians                      d) Echinoderms

50. Assertion: The Environmental condition of the tropics are favourable for speciation and diversity of organisms.  
Reason: The climate seasons, temperature, humidity and photoperiod are more or less stable and congenial.
- a) Both Assertion and Reason are true and Reason explains Assertion correctly.  
b) Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.  
c) Assertion is true, but Reason is false.                      d) Both Assertion and Reason are false.
51. Right to clean water is a fundamental right, under the Indian constitution  
a) Article 12    b) Article 21    c) Article 31    d) Article 41
52. The thickness of stratospheric ozone layer is measured in/on:  
a) Sieverts units                      b) Dobson units                      c) Melson units                      d) Beaufort scale
53. As per 2017 statistics, the highest per capita emitter of carbon dioxide in the world is  
a) USA                      b) China                      c) Qatar                      d) Saudi Arabia
54. The use of microorganism metabolism to remove pollutants such as oil spills in the water bodies is known as  
a) Biomagnification                      b) Bioremediation                      c) Biomethanation                      d) Bioreduction
55. Which among the following always decreases in a Food chain across trophic levels?  
a) Number                      b) Accumulated chemicals                      c) Energy                      d) Force
56. In the E-waste generated by the Mobile Phones, which among the following metal is most abundant?  
a) Copper                      b) Silver                      c) Palladium                      d) Gold
57. \_\_\_\_\_ is/ are an ideal disinfectant for waste water.  
a) U-V rays                      b) Chlorination                      c) Boiling                      d) Ozonisation
58. SMOG is derived from:  
a) Smoke                      b) Fog                      c) Both A and B                      d) Only A
59. Excess of fluoride in drinking water causes:  
a) Lung disease                      b) Intestinal infection                      c) Fluorosis                      d) None of the above

ALL THE BEST

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