MASTER OF MEDICAL LABORATORY TECHNOLOGY
FIRST SEMESTER
ENVIRONMENT HEALTH SCIENCE
MMLT – 101
[USE OMR SHEET FOR OBJECTIVE PART]

SET A

Duration: 3 hrs.   Full Marks: 70

(Objective)

Time: 30 min.   Marks: 20

Choose the correct answer from the following: 1×20=20

1. The ozone layer is found in:
   a. Mesosphere
   b. Atmosphere
   c. Exosphere
   d. None of the above

2. Which of the following diseases is most commonly linked to toxic pollution exposure?
   a. Diabetes
   b. Malaria
   c. Cardiovascular disease
   d. Alzheimer's

3. What is the recommended minimum distance to maintain between individuals to reduce COVID-19 transmission?
   a. 1 foot (0.3 meters)
   b. 3 Feet (1 meter)
   c. 6 Feet (2 meters)
   d. 10 feet

4. Which of the following types of face coverings provides the best protection against COVID-19 transmission?
   a. Cloth mask with single-layer fabric
   b. N95 respirator
   c. Scarf wrapped around the nose and mouth
   d. Plastic face shield alone

5. The effect of noise pollution is:
   a. Hypertension
   b. Deafness
   c. Headache
   d. All of the Above

6. World Environment Day is:
   a. 5th September
   b. 8th April
   c. 5th June
   d. 8th October

7. What is one of the main reasons biofilm infections are challenging to treat?
   a. Biofilms produce more toxins than other bacterial forms
   b. Biofilms have higher genetic diversity than other bacterial communities
   c. Biofilm cells can enter a dormant state, making them resistant to antibiotics
   d. Biofilm bacteria replicate faster than free-floating bacteria

8. ChipkoAndolan take place in the year :
   a. 1975
   b. 1974
   c. 1973
   d. 1972

9. Important pollutant is :
   a. Arsenic
   b. Hydrocarbon
   c. Lead
   d. All of the Above

10. Renewable resource include:
    a. Hydrothermal
    b. Geothermal
    c. Solar
    d. All of the Above

11. Which of the following is a significant effect of endocrine-disrupting chemicals on the body's metabolism?
    a. They boost the body's metabolism
    b. They may increase fat storage
    c. They help in muscle development
    d. They reduce appetite

12. 10 percent law in a ecosystem is:
    a. 99 percent lost and 1 percent gain
    b. 99 percent gain and 1 percent lost
    c. 90 percent gain and 10 percent lost
    d. 90 percent lost and 10 percent gain

13. Studies show that obesogens can promote weight gain by:
    a. Enhancing thermogenesis
    b. Reducing blood glucose levels
    c. Altering appetite control and fat storage
    d. Increasing nutrient metabolism efficiency

14. Highest percentage of gas in air is:
    a. Oxygen
    b. Carbon-dioxide
    c. Ozone
    d. None of the above

15. Narmada RiverBachaoAndolan (Save Narmada river) was started by:
    a. P.T.Usha
    b. G.V.Reddy
    c. MedhaPatkar
    d. Nimkar

16. Cleanest Village in India is in a North-East village called:
    a. Dwarka
    b. Dawki
    c. Namsai
    d. None of the above

17. Which of the following is a common method used in public health microbiology to identify disease-causing microorganisms?
    a. Polymerase Chain Reaction (PCR)
    b. X-ray imaging
    c. MRI scans
    d. Ultrasound

18. Forest Conservation Act amended in:
    a. 1990
    b. 1988
    c. 1985
    d. 1995

19. An extensive number of chain interlinked in an ecosystem is:
    a. Carbon cycle
    b. Food chain
    c. Food web
    d. All of the above

20. Brackish water ecosystem is found in:
    a. Wetlands
    b. Sea
    c. Deltas
    d. River

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Time : 2 hrs. 30 min.   Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. Name 17 Sustainable Development Goal. State one environmental   10
   livelihood programme with a Capacity Development programme
   for it.

2. Define pollution. Classify and describe pollution in detail.   10
   Describe health effects of some pollutants with their preventive
   measures.

3. Define food chain and food web with examples. State the theory of   10
   10% law and explain with a diagram as consumer and producer.

4. Define Natural Resource Management. Classify and describe   10
   Natural Resource Management with examples.

5. Define Renewable and Non- Renewable resource. Classify and   10
   describe Renewable and Non- Renewable resource with
   examples.

6. Explain the role of the built environment and environmental   10
   toxins in the department and progression of obesity.

7. What is public health microbiology? Write down elaborately   10
   about the critical public health issues in the 21st century .

8. What is bacterial biofilm? Write down 5 biofilm related problems   10
   in the environment and health care and it's prevention.

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