

**MUDRA LIFE SCIENCES**

**VOLUME-06**

**PART B & C**

**MODEL QUESTION BANK FOR THE TOPICS:**

**10. ECOLOGICAL PRINCIPLES**

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## **10. ECOLOGICAL PRINCIPLES**

### **UNIT-1**

1. The approximate per cent oxygen content of air is
  - a) 1
  - b) 20
  - c) 60
  - d) 80
  
2. One of the following structure of Cockroach is responsible for water conservation
  - (a) Spiracles
  - (b) Hepatic caeca
  - (c) Malpighian tubules
  - (d) short midgut
  
3. One of the following sets of animals is treated as endangered
  - (a) Black buck – Lion – Rhinos
  - (b) Musk deer – Lion – Rhinos
  - (c) Black buck – Spotted deer – Bison
  - (d) Snow leopard – Musk deer – Great Indian bustard
  
4. Biotic environment includes
  - (a) producers
  - (b) consumers
  - (c) decomposers
  - (d) all the above
  
5. Decomposers include
  - (a) bacteria
  - (b) fungi
  - (c) both a and b
  - (d) animals

6. Abiotic environment does not include
- (a) air (b) water  
(c) soil (d) plants
7. Vermi-composting is done by
- (a) fungus  
(b) bacteria  
(c) worms  
(d) animals
8. Which one the following is not biodegradable?
- (a) vegetables  
(b) fruits  
(c) earthworm  
(d) aluminium foil
9. Animal(s) which is/are active at night.
- (a) owl  
(b) rat  
(c) cockroach  
(d) all the above
10. An animal that can tolerate the heat of the desert is
- (a) rats  
(b) camel  
(c) cow  
(d) lion

11. Air pollution is caused by
- (a) Insecticides
  - (b) Sewage
  - (c) Smoke
  - (d) Loud speakers
12. If waste materials contaminate the source of drinking water which of the following diseases will spread?
- (a) Scurvy
  - (b) Typhoid
  - (c) Malaria
  - (d) Anaemia
13. In our country the Van Mahotsav Day is observed on
- (a) Second of October
  - (b) First of December
  - (c) Tenth of August
  - (d) First of July
14. Which of the following wastes cannot be decomposed by bacteria to form compost?
- (a) Kitchen wastes
  - (b) Plastic and polythene bags
  - (c) Dead plants
  - (d) Bodies of insects living in the soil
15. Which of the following problems is not created by noise pollution ?
- (a) Diarrhoea
  - (b) Hypertension
  - (c) Deafness
  - (d) Irritation

16. Air is composed of gases, water vapours and
- (a) dust particles (b) rainfall  
(c) snowfall (d) light
17. Chief source of energy in environment is
- (a) fire (b) moon  
(c) sun (d) stars
18. When trees are cut, amount of oxygen
- (a) decreases (b) increases  
(c) both (a) and (b) (d) remains same
19. Process through which plants reproduce:
- (a) Eating  
(b) Evaporation  
(c) Pollination  
(d) Condensation
20. 71% of earth surface is covered with:
- (a) land (b) air  
(c) water (d) coal
21. The annual productivity of any ecosystem is greater than the annual increase in biomass of the herbivores in the ecosystem because..
- (A) plants convert energy input into biomass more efficiently than animals  
(B) there are always more animals than plants in any ecosystem  
(C) plants have a greater longevity than animals  
(D) during each energy transformation, some energy is lost

22. A Type I survivorship curve would apply to.
- (A) humans
  - (B) redwoods
  - (C) bacteria
  - (D) flies
23. All of the following are factors that increase population size EXCEPT..
- (A) ability to adapt
  - (B) specialized niche
  - (C) few competitors
  - (D) generalized niche
24. A specialist faces \_\_\_\_\_ competition for resources and has \_\_\_\_\_ ability to adapt to environmental changes. A generalist faces \_\_\_\_\_ competition for resources and has \_\_\_\_\_ ability to adapt to environmental changes.
- (A) less, greater, great, less
  - (B) greater, less, less, greater
  - (C) less, less, greater, greater
  - (D) greater, greater, less, less
25. Whether a land area supports a deciduous forest or grassland depends primarily on
- (A) changes in temperature
  - (B) latitude north or south of the equator
  - (C) consistency of rainfall from year to year and the effect that it has on fires
  - (D) changes in length of the growing season

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