

MULTIPLE CHOICE QUESTIONS (MCQ)

1. **Ecology deals with the study of**
  - [a] Living beings
  - [b] Living and non living components
  - [c] Reciprocal relationship between living and non living components
  - [d] Environment
  
2. **Auto ecology deals with**
  - [a] Ecology of species
  - [b] Ecology of many species
  - [c] Ecology of community
  - [d] All the above
  
3. **MAB stands for**
  - [a] Man and biosphere
  - [b] Man, antibiotics and bacteria
  - [c] Man and biotic community
  - [d] None of the above
  
4. **Which one is not a pollutant normally?**

[a] Hydrocarbon	<input checked="" type="checkbox"/> [b] Carbon dioxide
[c] Carbon monoxide	[d] Sulphur dioxide
  
5. **What is true of ecosystem?**
  - [a] Primary consumers are least dependent upon producers
  - [b] Primary consumers out-number producers
  - [c] Producers are more than primary consumers
  - [d] Both a and b
  
6. **Green house effect is warming due to**
  - [a] Infra-red rays reaching earth
  - [b] Moisture layer in atmosphere

- [c] Increase in temperature due to increase in carbon dioxide concentration of atmosphere
- [d] None of the above
7. **Soil conservation is**
- [a] Conversion of sterile soil into fertile one
- [b] Ventilation of soil
- [c] Corrosion of soil
- [d] Protection against loss
8. **Gas released during Bhopal tragedy was**
- [a] Methyl isocyanate
- [b] Potassium isothiocyanate
- [c] Sodium isothiocyanate
- [d] Ethyl isothiocyanate
9. **Deforestation will decrease**
- [a] Soil erosion
- [c] Soil fertility
- [b] Land slides
- [d] Rainfall
10. **Soil water available to roots is**
- [a] Surface water
- [b] Hygroscopic water
- [c] Gravitational water
- [d] Capillary water
11. **Pick up the correct food chain**
- [a] Grass → chamelion → insect → bird
- [b] Grass → fox → rabbit → bird
- [c] Phytoplankton → zooplankton → fish
- [d] Fallen leaves → bacteria → insect larvae

UGC BOOK

12. **Petroleum is a**  
[a] Synthetic product  
[b] Renewable resource  
[c] Nonrenewable resource  
[d] Inconvenient resource.
13. **Minerals and metals are**  
[a] Biodegradable resources  
[b] Renewable  
[c] Non-renewable  
[d] Renewable and nonrenewable resources.
14. **Soil fertility is reduced by**  
[a] Crop rotation  
[b] Nitrogen fixing bacteria  
[c] Decaying organic matter  
[d] Intensive agriculture.
15. **Which one of the following gases contributes maximum to the green house effect' on the earth?**  
[a] Carbon dioxide  
[b] Chlorofluoro carbon  
[c] Freon  
[d] Methane
16. **Sounds above what level are considered hazardous noise pollution?**  
[a] Above 80 dB  
[c] Above 150 dB  
[b] Above 30 dB  
[d] Above 120 dB

17. The Taj Mahal is threatened due to the effect of

- [a] Oxygen
- [b] hydrogen
- [c] chlorine
- ~~[d] sulphur-dioxide.~~

18. Which of the following is the most stable ecosystem?

- [a] Mountain
- ~~[b] Ocean~~
- [c] Forest
- [d] Desert

19. Which of the following is the main factor of desertification?

- ~~[a] Over-grazing~~
- [b] Tourism
- [c] Irrigated agriculture
- [d] All of these

20. Which one of the following pairs is correctly matched?

- [a] Parasitism – intra-specific relationship
- [b] Uricotelism – aquatic habitat
- [c] Excessive perspiration – xeric adaptation
- ~~[d] Stream lined body – aquatic adaptation.~~

21. Which country has the greatest contribution for the whole formation in ozone layer?

- [a] Russia
- [b] Japan
- ~~[c] USA~~
- [d] Germany

22. Which of the following ecosystem has the highest gross primary productivity?

- [a] Mangroves
- ~~[b] Rain forest~~
- [c] Grassland
- [d] Coral reef

23. The supersonic jets cause pollution by the thinning of
- [a] O<sub>2</sub> layer
  - [b] O<sub>3</sub> layer
  - [c] CO<sub>2</sub> layer
  - [d] SO<sub>2</sub> layer.
24. Which of the following is pollution related disorder?
- [a] Silicosis
  - [b] Pneumoniosis
  - [c] Fluorosis
  - [d] Leprosis
25. Which of the following is a secondary pollutant?
- [a] PAN
  - [b] Aerosol
  - [c] CO
  - [d] CO<sub>2</sub>
26. Land mass occupied by forest is about
- [a] 30%
  - [b] 60%
  - [c] 11%
  - [d] 22%.
27. Which is the result of damage to relative biological effectiveness?
- [a] High temperature
  - [b] Pollution
  - [c] Radiation
  - [d] Low temperature
28. *Escherichia coli* is used as an indicator organism to determine pollution of water with
- [a] Heavy metals
  - [b] Faecal matter
  - [c] Industrial effluents
  - [d] Pollen of aquatic plants

29. **Mycorrhiza is an example of**
- [a] Symbiotic relationship
  - [b] Ectoparasitism
  - [c] Endoparasitism
  - [d] Decomposers
30. **In 1984, the Bhopal gas tragedy took place because methyl isocyanate**
- [a] Reacted with DDT
  - [b] Reacted with ammonia
  - [c] Reacted with CO<sub>2</sub>
  - [d] Reacted with water
31. **Common indicator organism of water pollution is**
- [a] Lemna paucicostata
  - [b] Eichhornia crassipes
  - [c] Escherichia coli
  - [d] Entamoeba histolytica
32. **Which one of the following is not used for disinfection of drinking water?**
- [a] Chlorine
  - [b] Ozone
  - [c] Chloramine
  - [d] Phenyl
33. **Which one of the following pairs is mismatched?**
- [a] Fossil fuel burning – release of CO<sub>2</sub>
  - [b] Nuclear power – radioactive wastes
  - [c] Solar energy – greenhouse effect
  - [d] Biomass burning – release of CO<sub>2</sub>

34. A high density of elephant population in an area can result in

- [a] Intra specific competition
- [b] Inter specific competition
- [c] Predation on one another
- [d] Mutualism

35. Which one of the following ecosystem types has the highest annual net primary productivity?

- [a] Tropical deciduous forest
- [b] Temperate evergreen forest
- [c] Temperate deciduous forest
- [d] Tropical rain forest

36. Which one of the following is not a bioindicator of water pollution?

- [a] Blood-worms
- [b] Stone flies
- [c] Sewage fungus
- [d] Sludg e-worms

37. "Hot spots" are areas,

- (i) Extremely rich in species
- (ii) With high endemism
- (iii) Extremely scarce in species
- (iv) Under constant threat

Choose the correct answer-

- [a] (i) and (ii)
- [b] (ii) and (iii)
- [c] (ii), (iii) and (iv)
- [d] (i), (ii) and (iv)

38. Which pyramid cannot be inverted in a stable ecosystem?

- [a] Pyramid of energy

- (b) Pyramid of biomass
- (c) Pyramid of number
- (d) Pyramid of dry weight

40. Which bacterium found in soil is anaerobic?

- ~~(a) Clostridium Sp~~
- (b) Azatobacter Sp
- (c) Bacillus Sp
- (d) Thiobacillus Sp

41. IUCN is also called as

- (a) Man and biosphere program
- ~~(b) World conservation union~~
- (c) World conservation consortium
- (d) World wide conservation union

42. Which of the following region has maximum diversity

- (a) Mangroves
- (b) Temperate rain forests
- (c) Taiga
- ~~(d) Coral reefs~~

43. Percent of water on the world's surface representing fresh water is

- ~~(a) 97~~
- (b) 50
- (c) 10
- (d) 3

44. Concentration of CO<sub>2</sub> in present day atmosphere is

- (a) ~ 220 ppm
- (b) ~ 280 ppm
- (c) ~ 360 ppm
- ~~(d) ~ 390 ppm~~

45. The sources of thermal pollution are

- (a) Power plants
- (b) Cooling forests
- (c) Industrial effluents
- ~~(d) All of the above~~



45. A plant endemic to India is  
[a] ~~Banyan~~  
[b] Ginkgo  
[c] Sequoia  
[d] Triticum
46. A recent technique for the study of vegetation is  
[a] Ground photography  
[b] Remote sensing  
[c] Field work  
[d] ~~Observation~~
47. A renewable exhaustible natural resource is  
[a] ~~Forest~~ [b] Coal  
[c] Petroleum [d] Minerals
48. An example of ex-situ conservation is  
[a] ~~Seed bank~~ [b] Sacred groves  
[c] National parks [d] Wildlife Sanctuary
49. Anthropogenic extinction occurs due to  
[a] Earthquakes  
[b] Floods  
[c] Changing environmental conditions  
[d] ~~Human activities~~
50. Biogas is which type of natural resources  
[a] Renewable  
[b] Inexhaustible  
[c] Non-conventional  
[d] ~~Both a and c~~

## Answers

1. c	2. a	3. a	4. b	5. c	6. c	7. d
8. a	9. d	10. d	11. c	12. c	13. d	14. d
15. a	16. d	17. d	18. b	19. a	20. d	21. c
22. b	23. b	24. c	25. a	26. a	27. b	28. b
29. a	30. d	31. c	32. d	33. c	34. d	35. d
36. b	37. d	38. a	39. a	40. b	41. d	42. a
43. d	44. d	45. a	46. d	47. a	48. a	49. d
50. d						