



IITJEE Foundation Practice paper

NATURAL RESOURCES

class-9-Science Number of Questions: 80

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1

From the following which is not inexhaustible resource.

- air fossil fuels water solar energy

2

The multilayered gaseous envelope surrounding the Earth is called

- lithosphere ozonosphere atmosphere hydrosphere

3

Air is a mixture of

- nitrogen, sulphur, carbon dioxide, oxygen
 carbon monoxide, nitrogen, oxygen, water vapour
 nitrogen, oxygen, carbon dioxide, water vapour
 nitrogen, carbon dioxide, oxygen, methane

4

In planets such as Venus and Mars the major component of atmosphere is

- nitrogen oxygen carbon dioxide sulphur

5

What is the process, which results in the consumption of oxygen and the concomitant production of carbon dioxide?

- condensation combustion consumption respiration

6

Soil erosion can be prevented by

- deforestation using more fertilizers raising forests counter bunding

7

Name the gas which plays an important role in global warming.

- ammonia carbon dioxide hydrogen sulphate mercury

8

Ozone layer is present in which part of the atmosphere.

- troposphere mesosphere thermosphere stratosphere

9

How much % of Nitrogen present in the atmosphere.

- 74 47 87 78

10

From the following which is incorrect statement regarding Renewable resources.

- they are both abiotic and biotic they are replenished within reasonable time
 they can be used forever provided they are used in limited amounts
 minerals are the example for renewable resource

11

From the following which is not the role of atmosphere in the climate control.

- air is the bad conductor of heat
 there would be no plant or animal life, no winds, clouds, rain and fire without atmosphere
 the atmosphere keeps the average temperature of the earth
 atmosphere is the biotic component of the biosphere

12

The range of temperature on the surface of the moon is

- 190 to 110 190 to -110 -190 to 110 - 190 to -110

13

The two forms of oxygen found in the atmosphere are

- oxygen and ozone water and oxygen water and ozone
 water and water vapour

14

Name two biologically important compounds that contain both oxygen and nitrogen.

1. Nucleic acids
2. Fats
3. Proteins
4. Enzymes

- 1 and 2 1 and 3 3 and 4 4 and 2

15

Below four statements are given with respect to the mass mortality of fish in a pond. Out of four one is incorrect which one is it.

- release of toxic industrial waste in the pond pouring hot water in the pond
 passage of pesticide rich water to the pond
 throughing food into the ponds to the fishes

16

Oxygen is harmful for

- bacteria ferns trees fungi

17

Ozone layer has a hole above which continent.

- Asia Australia Antarctica Arctic

18

From the following which is not the renewable resource.

- forests underground water minerals wild life

19

Oxygen is returned to the atmosphere mainly by

- photosynthesis respiration combustion formation of oxides of nitrogen

20

The percentage of oxygen present in the atmosphere is

- 71 21 91 41

21

From the following which is not the step of nitrogen cycle

- denitrification decomposition respiration nitrogen fixation

22

Ozone hole is the

- absence of ozone in troposphere absence of ozone in stratosphere
 deficiency of ozone in stratosphere deficiency of ozone in troposphere

23

Which type of pollution is caused by scooters ?

- air pollution soil pollution both a and b none of the above

24

The most harmful types of environment pollutants are

- human organic wastes wastes from faecal non biodegradable chemicals
 natural nutrients present in excess

25

Ozone depletion is occurring due to

- PCB PAN CO none of these

26

Which air pollutant could cause rains to be acidic?

- dust particles from cement factories insecticides from crop sprays
 smoke from wood fires sulphur dioxide from coal fired power stations

27

Bhopal gas tragedy was caused by

- pollution pollution explosion MIC (methyl iso cyanide) fire in the factory

28

Which of the following are the indicators of pollution?

- fungi algae lichen bacteria

29

Silica, clay, inorganic salts and hydrated oxides are the primary end products of _____ weathering.

- physical weathering biological weathering chemical weathering
 artificial weathering

30

Weathering done by living organisms such as lichens and mosses is called as _____.

- physical weathering biological weathering artificial weathering
 none of the above

31

Which are the factors that causes physical weathering?

- living organisms chemicals substances fertilizers and pesticides
 various climatic factors

32

Name the type of soil which is best suited for growing cotton.

- black soil red soil desert soil laterite soil

33

Laterite soil is best suited for growing _____ type of crops.

- cotton and jute wheat and bajra tea and coffee rice and pulses

34

From the following statements find out the wrong statement.

- heavy are one of the causes of soil erosion soil erosion causes loss of fertility
 soil erosion can be prevented by terrace farming
 soil is formed by artificial weathering

35

Biomagnification of mercury in the fishes through a food chain results in _____ disease in fish eating human populations of the region.

- itai itai disease minamata disease skin diseases none of the above

36

Industries, smokes, photo chemical smog, radio active elements, automobile exhaust etc., are the causes for

- air pollution water pollution soil pollution sound pollution

37

From the following find out the wrong statement.

- SPM causes air pollution atmospheric ozone is measured by Dobson spectrometer
 ozone depletion may cause skin cancer
 rain water harvesting does not raise the water levels

38

From the following which is not the reason for causing water pollution?

- DDT SPM DDE BHC

39

Match the following:-

- | | |
|--------------------|--------------------------|
| 1) air pollution | a) horns of vehicles |
| 2) water pollution | b) polythene bags |
| 3) noise pollution | c) sewage from houses |
| 4) soil pollution | d) smoke from industries |

- 1-a, 2-b, 3-c, 4-d 1-d, 2-c, 3-a, 4-b 1-b, 2-c, 3-b, 4-a 1-d, 2-c, 3-b, 4-a

40

Water pollution causes _____.

- typhoid and cholera malaria and filariasis dengue and chicken gunea
 small pox and chicken pox

41

The biogeochemical cycles are also known as

- oxygen cycle carbon cycle water cycle nutrient cycle

42

From the following which has no gaseous bio geochemical cycle.

- nitrogen carbon oxygen phosphorus

43

Soil that is best suited for plant growth is

- clay soil loamy soil sandy soil rocky soil

44

Run-off from fertilizer rich crop fields causes

- turbidity of water bodies precipitation of toxicants eutrophication of water bodies
 thermal pollution of water bodies

45

Name two diseases caused by toxic chemicals in polluted water?

- cancer and arsenicosis cancer and typhoid typhoid and elephantiasis
 meningitis and arsenicosis

46

Rain fall patterns depend on

- the underground water levels prevailing wind patterns
 the number of green plants in that area the number of population in that area

47

Find out from the following which is not a step involved in the water cycle operating in nature

- photosynthesis evaporation transpiration translocation

48

What is the main source of carbon monoxide emission into the atmosphere.

- incomplete burning of fossil fuels incomplete burning of coal
 incomplete burning of wood none of the above

49

Methane is a colourless and flammable gas that is not produced naturally by one of the following.

- anaerobic bacteria termites aerobic bacteria none of the above

50

List the heavy metals whose bio magnification result in Minamata and Itai and Itai diseases.

- 1) Mercury
- 2) Lead
- 3) Cadmium
- 4) Silver

- 1 and 2 2 and 3 3 and 4 1 and 3

51

Atmosphere of earth is rich in

- nitrogen carbon dioxide oxygen argon

52

Earthworms are _____ which involved in paedogenesis.

- omnivore herbivore carnivore detrivore

53

From the following which is the denitrifying bacteria.

- Nitromonas Azobactor Pseudomonos Rhizobium

54

Rhizobium bacteria (in root nodules) plays _____ role in the nitrogen cycle.

- nitrification denitrification nitrogenfixation none of the above

55

Find from the following which microorganism plays role in the ammonification.

- algae fungi both of the above none of the above

56

From the following which are the hottest and coldest planets respectively.

- Jupiter and Mars Venus and Mars Sun and Moon Earth and Neptune

57

Where no life is known to exist the major component of atmosphere is found to be

- carbon monoxide carbon dioxide oxygen none of the above

58

Name the occupational disease which is caused by the inhalation of cotton fibres.

- Elephantiasis Asbestosis Silicosis Byssinosis

59

The atmosphere of the Earth is heated by radiations which are mainly

- radiation by the sun re-radiated by land re-radiated by water
 re-radiated by land and water

60

Marked temperature changes in aquatic environment can affect

- breeding of animals increased growth of aquatic animals availability of nutrients
 none of the above

61

Name the poisonous substances which are used by paper industries.

- mercury salts gypsum salts inorganic salts organic salts

62

Increasing levels of oxides of nitrogen and sulphur in atmosphere dissolves in the rain to give rise to

- heavy rain monsoons acid rain thunders

63

Water cover _____ % of the earth's surface.

- 57 77 75 87

64

From the following which are the abiotic components of the biosphere.

- air, water, soil air, fungi, algae soil, bacteria, air
 water, soil, multicellular organisms

65

Smog is

- smoke moistened air gases dust storm smoke with fog

66

Acid rain is caused by

- 1) sulphur dioxide
- 2) hydrogen chloride
- 3) nitrogen oxides
- 4) calcium dioxide

- 1 and 2 1 and 3 1 and 4 none of the above

67

Which are called as friends of farmers?

- earthworms microorganisms fungi and algae lichens and mosses

68

Removal of useful components from the soil and addition of other substances, which adversely affect the fertility of the soil and kill the diversity of organisms that live in it, is called

- soil erosion soil pollution soil fertility soil formation

69

Who was fondly known as water man and was awarded with Magsaysay Award 2001 for his ingenious technique of harvesting of rain water?

- Rajnath singh Ranbir singh Rajendra singh Ramnath singh

70

From the following which is not the source of water pollution?

- industrial waste acid rain sewage fertilizers and pesticides

71

From the following which is the non-degradable pollutant?

- domestic waste sewage dried leaves plastics

72

Green plants in an ecosystem are called as

- consumers decomposers producers none of the above

73

Which step is not involved in the carbon cycle?

- photosynthesis combustion respiration transpiration

74

Name the part of south India with maximum diversity?

- tamilnadu western ghats krishna basin malabar region

75

From the following which has poor vegetation.

- Kerala Madhya Pradesh Rajasthan Orissa

76

What is the direction of air in coastal areas during the night?

- from land to sea from sea to land Both a and b none of the above

77

From the following which disease is caused by air pollution.

- malaria lung cancer dengue plague

78

Two main sources of carbon are

- land and river fossil fuels and air fertilizers and pesticides
 sewage and garbage

79

Name the type of water present in the soil which can be absorbed by plants?

- mineral water capillary water distilled water fresh water

80

Low-visibility during cold weather is due to

- formation of fossil fuel unburnt carbon particles lack of adequate power supply
 none of the above

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