M.Sc.IV Sem.

ENVIONMENTAL BIOLOGY

multiple choice questions

1 Most stable ecosystem is

(a) Forest		
(b) Desert		
(c) Ocean		
(d) Mountain		
2 Which of the following statement about the forest is not correct		
(a) Forest reduces soil erosion		
(b) Provides recreational opportunities		
(c) Provides economic development		
(d) None of the above		
3 Lignite, bituminous and anthracite are different types of		
(a) Nuclear fuel		
(b) Coal		
(c) Natural gas		
(d) Biogas		
4 Which of the following is the example of impact of development activities on hydrosphere?		
(a) Air pollution		
(b) Soil pollution		
(c) Noise pollution		
(d) Water pollution		
5 Study of trends in human population growth and prediction of future growth is called		
(a) Demography (b) Biography		
(c) paleography (d) psychology		

6 Which of the following is not a method of water conservation
(a) rain water harvesting
(b) ground water extraction
(c) improving irrigation efficiency
(d) avoiding water wastge
7 Formation of ozone is
(a) oxidation reaction
(b) reduction reaction
(c) photochemical reaction
(d) none of these
8 The drop in air temperature at a rate of 6.50 C per 1000 m increase in altitude of troposphere
is known as
(a) Environmental lapse rate
(b) Environmental degradation
(c) Green house effect
(d) Global warming
9 Zone consisting air, water and soil is known as
(a) Hydrosphere
(b) Atmosphere
(c) Lithosphere
(d) Biosphere
10 Word oikos means and logos means
(a) Houses and study of
(b) Study and houses
(c) Only houses

(d) Study of people
11 Nitrogen gets oxidized into
(a) Nitrates and ammonia
(b) Ammonia and urea
(c) Urea and nitrite
(d) Nitrates and nitrites
12 Earthworms and bacteria are called
(a) Producers
(b) Consumers
(c) Decomposers
(e) None of these
13 Region where fresh water meets salt water is called
(a) Sea
(b) Lake
(c) River
(d) Estuarine
14 The Ecological pyramid that is always upright
(a) Pyramid of energy
(b) Pyramid of biomass
(c) Pyramid of number
(d) None of these
15 "Green house effect" with respect to global warming refers to-
(a) Cooling & moist condition
(b) Warming effect
(c) Increased rainfall & greenery
(d) Desertification

16 In India, Tropical rain forest occurs in-	
(a) Jammu and Kashmir	
(b) Andaman & Nicobar	
(c) Uttar Pradesh	
(d) Himachal Pradesh	
17 Atomospheric ozone layer which protect us from UV-B & C is getting depleted most	
by addition of-	
(a) Chloro flurocarbon	
(b) Carbon monooxide	
(c) Carbon dioxide	
(d) Sulpur dioxide	
18 5th June is observed as	
(a) World forest day	
(b) World environment day	
(c) World wildlife day	
(d) World population day	
19 21st March is observed as	
(a) World forest day	
(b) World environment day	
(c) World wildlife day	
(d) World population day	
20 Noise is measured using sound meter and the unit is	
(a) Hertz	
(b) Decibel	
(c) Joule	

(d) Sound
21 Important abiotic factors in ecosystems include which of the following?
(a) temperature
(b) water
(c) wind
(d) both (a) and (b)
22 All of the following statements about ecology are correct except:
(a) Ecology is the study of the interactions between biotic and abiotic aspects of the environment
(b) Ecology is a discipline that is independent from natural selection and evolutionary history
(c) Ecologists may study populations and communities of organisms.
(d) Ecology spans increasingly comprehensive levels of organization from individuals to ecosystems
23 Which of the following are important biotic factors that can affect the structure and
organization of biological communities?
(a) nutrient availability, soil pH, light intensity
(b) precipitation, wind, temperature
(c) predation, competition, disease (d) all of the above
24 The term "Environment" means
(a) Sum total of all conditions that the life and development of all organisms on earth
(b) A beautiful earth
(c) Earth and water
(d) A combination of plants and animals
25 Elements of environment are
(a) Nitrogen, Carbondioxide, Oxygen
(b) Nitrogen, Oxygen, Ozone

(c) Carbondioxide, Oxygen, Ozone

(d) Lithosphere, Atmosphere, Hydrosphere and Biosphere		
26 The term Environme	ent is derived from an old French word "enviro" means	
(a) Outside	(b) Surroundings	
(c) Inside	(d) Biotic community	
27 Hydrosphere include	es	
(a) Animals		
(b) Soil		
(c) Plants		
(d) Water bodies		
28 Area of land, water	and air where the life exists is called	
(a) Biosphere		
(b) Lithosphere		
(c) Atmosphere		
(d) Hydrosphere		
29 Atmosphere may ex	tents to a height of about following kms above the earth surface	
(a) 80 km		
(b) 8000 km		
(c) 800 km		
(d) 8 km		
30 The layers of atmosp	phere consists of	
(a) Troposphere, Strato	sphere,	
Mesosphere and Tempe	erature	
(b) Hydrosphere and bi	osphere	
(c) Lithosphere and Hy	drosphere	
(d) Biosphere and Hydr	rosphere	

31 Lowest layer of atmosphere is called
(a) Thermosphere
(b) Stratosphere
(c) Troposphere
(d) Mesosphere
32 Troposphere has altitude range of
(a) 8 to 18 km from earth surface
(b) 50 km from earth surface
(c) 800 km from earth surface
(d) 80 km from earth surface
33 The layer of atmosphere containing much of ozone gas is
(a) Thermosphere
(b) Stratosphere
(c) Troposphere
(d) Mesosphere
34 The coldest layer of temperature having minimum temperature range of -950 C is
(a) Thermosphere
(b) Mesosphere
(c) Stratosphere
(d) Troposphere
35 Thermosphere has two layers of
(a) Ionosphere and Exosphere
(b) Stratosphere and Troposphere
(c) Mesosphere and Troposphere
(d) Mesosphere and Stratosphere

36 The layer which provides ideal site for flying of jet planes is
(a) Thermosphere
(b) Stratosphere
(c) Mesosphere
(d) Troposphere
37 As per IPAT equation impact of environment degradation depend
(a) population, Affluence and
technology
(b) Population and industrialization
(c) Urbanization and poverty
(d) Population, Pollution
38 Scientific study of the interactions of organisms with the physical environment is called
(a) Ecosystem
(b) Ecology
(c) Environment
(d) Trophic stricture
39 The three major living components of an ecosystem are
(a) Producers, consumers and Decomposers
(b) Producers, Autotrophs and Decomposers
(c) Heterotrophs, Consumers and Reducers
(d) Detritivores, Consumers and Phototrophs
40 The green plants are also called
(a) Producers
(b) Consumers
(c) Reducers

(d) Detritivores				
41 Example of omnivo	res is			
(a) Lion				
(b) Hawk				
(c) Human				
(d) Snake				
42 The most important	organisms of an ecosyste	em are		
(a) Herbivores	(b) Producers	(c) Carnivores	(d) Protozon	
43 Consumers are also	called			
(a) Photoautotrophs				
(b) Saprotrophs				
(c) Heterotrophs				
(d) Reducers				
44 Sequence of eating and being eaten in a ecosystem is called				
(a) Food web				
(b) Natural cycle				
(c) Ecological Pyramid				
(d) Food chain				
45 Detritus food chain starts from				
(a) Green plants	(b) Grass	(c) Dead organic matter	(d) Phytoplankton	
46 Nutrients are recycled in ecosystem by				
(a) Biogeochemical cyc	cle (b) Energy flow	(c) Producers	(d) Consumers	
47 The flow of energy	is,			
(a) Oneway				
(b) Cyclic				
(c) Linear and oneway				

(d) None of these
48 Biodiversity means
(a) The living natural resources
(b) Land and forest
(c) Oceans and sea
(d) Atmosphere
49 Food chain always starts with
(a) Respiration
(b) Transpiration
(c) Nitrogen fixation
(d) Photosynthesis
50 The ecological pyramid always starts with the following at the base
(a) Decomposer
(b) Producer
(c) Consumer
(d) None of these
51 Hydrological cycle provides us
(a) Fresh water
(b) Nitrogen
(c) Carbon dioxide
(d) None of these
52 Gaseous nitrogen can be used by plants only after the process of
(a) Nitrogen cycling
(b) Nitrogen fixation
(c) Ammonification
(d) Nitrifications

53 Conversion of ammonia to nitrite and then nitrate is called
(a) Nitrogen fixation
(b) De nitrification
(c) Nitrification
(d) Ammonification
54 The loss of water from plants and tree leaves is called
(a) Precipitation
(b) Respiration
(c) Evaporation
(d) Transpiration
55 Which of the following is a non-renewable resource?
(a) Coal
(b) Forest
(c) Water
(d) Wildlife
56 Deforestation generally decreases
(a) Rainfall
(b) Soil erosion
(c) Draught
(d) Global warming
57 Chipko movement was started to conserve
(a) Forests
(b) Grasslands
(c) Deserts
(d) Soil

58 Fossil fuel and metallic minerals are				
(a) Renewable resources				
(b) Non-renewable resources				
(c) Inexhaustible	(c) Inexhaustible			
(d) None of these				
59 Examples of conventional type of renewable resources may be				
(a) Plants				
(b) Wild life				
(c) Aquaculture				
(d) All of these				
60 The subsurface sources of water is				
(a) River				
(b) Dug well				
(c) Stream				
(d) Ocean				
61 Afforestation is necessary for				
(a) Soil conservation (b) Soil erosion (c) Well control	(d) Low humidity			
62 In the hills forest cover is affected by,				
(a) Overgrazing by cattle (b) Soil erosion (c) Leaching of soil	(d) Soil pollution			
63 Air pollution is caused by				
(a) Insecticides				
(b) Sewage				
(c) Smoke				
(d) Loud speakers				

64 If waste materials contaminate the source of drinking water which of the following diseases
will spread?
(a) Scurvy
(b) Typhoid
(c) Malaria
(d) Anaemia
65 When trees are cut, amount of oxygen
(a) decreases
(b) increases
(c) both (a) and (b)
(d) remains same
66 71% of earth surface is covered with:
(a) land
(b) air
(c) water
(d) coal
67 Which of the following is secondary pollutant
(a) CO ₂
(b) CO
(c) O_3
(d) SO_2
68 Carbon monoxide is a pollutant because
(a) It react with O_2
(b) It inhibit its glycolysis
(c) Make nervous system inactive

(d) React with	h hemoglobin		
69 All are par	rticulate polluta	nts expect	
(a) Dust (b)	ozone (c) soot (d) smoke	
70 Major cau	se of increment	in population growth	
(a) decrease i	n birth rate		
(b) decrease i	n mortality rate		
(c) illiteracy			
(d) none of th	e above		
71 Main obje	ctive of family	welfare program is	
(a) population	n control		
(b) disease co	ontrol		
(c) a & b			
(d) none of th	e above		
72 The sudde	n increase\e in t	he population of the speci	es is
(a) population	n growth		
(b) population	n explosion		
(c) over popu	lation		
(d) all above			
73 According	to Thomas Ma	lthus human population in	crease in
(a) arithmetic	ratio		
(b) geometric	ratio		
(c) exponensi	on ratio		
(c) all above			
74 Which of	the following is	an air pollutant	
(a) ozone	(b) CFC	(c) Carbon dioxide	(d) oxygen

75 Noise is
(a) loud sound
(b) constant sound
(c) unwanted sound
(d) slow sound
76 Which of the following are major causes of land degradation?
(a) soil erosion
(b) deforestation
(c) water logging
(d) desertification
77 Biochemical oxygen demand means
(a) industrial pollution
(b) air pollution
(c) polluting capacity of effluent
(d) dissolved O2 needed by microbes to decompose organic waste
78 Eutrophication means
(a) thermal change in water
(b) filling up of water body with aquatic due to extra nourishment
(c) solid waste
(d) none of the above
79 The main components of photochemical smog is
(a) water vapour
(b) sulphur dioxide
(c) oxides of nitrogen
(d) all of the above

80 The TAJ MAHAL at AGRA may be damaged by
(a) sulphur dioxide
(b) chlorine
(c) hydrogen
(d) oxygen
81 Sound becomes hazardous noise pollution at decibels
(a) above 30
(b) above 80
(c) above 100
(d) above 120
82 Effect of noise pollution is mainly on,
(a) physical factor
(b) chemical factor
(c) biological factor
(d) all of the above
83 The important component of environment is
(a) Biosphere
(b) Lithosphere
(c) Atmosphere
(d) all of the above
84 The pollutant free energy resource are,
(a) coal
(b) nuclear power
(c) petroleum
(d) solar energy

85 The atmosphere of big cities is polluted most by,
(a) household waste
(b) radioactive falls out
(c) automobile exhausts
(d) pestricides
86 The concentration of which gas is highest in our environment?
(a) Oxygen
(b) Hydrogen
(c) Nitrogen
(d) Carbon dioxide
87 Which of the following are the example of Municipal and industrial discharge pipes
87 Which of the following are the example of Municipal and industrial discharge pipes (a) Nonpoint sources of pollution.
(a) Nonpoint sources of pollution.
(a) Nonpoint sources of pollution.(b) Violations of the Clean Water Act.
(a) Nonpoint sources of pollution.(b) Violations of the Clean Water Act.(c) Point sources of pollution.
(a) Nonpoint sources of pollution.(b) Violations of the Clean Water Act.(c) Point sources of pollution.
(a) Nonpoint sources of pollution.(b) Violations of the Clean Water Act.(c) Point sources of pollution.(d) Irrigation.
(a) Nonpoint sources of pollution.(b) Violations of the Clean Water Act.(c) Point sources of pollution.(d) Irrigation.88 Which of the following is not a major source of groundwater contamination?
 (a) Nonpoint sources of pollution. (b) Violations of the Clean Water Act. (c) Point sources of pollution. (d) Irrigation. 88 Which of the following is not a major source of groundwater contamination? (a) agricultural products
 (a) Nonpoint sources of pollution. (b) Violations of the Clean Water Act. (c) Point sources of pollution. (d) Irrigation. 88 Which of the following is not a major source of groundwater contamination? (a) agricultural products (b) landfills