



BIOLOGY

BOOKS - UNIVERSAL BOOK DEPOT 1960 BIOLOGY (HINGLISH)

BIOME AND BIOGEOCHEMICAL CYCLES

Biome And Biogeochemical Cycles

1. According Robert Constanza, $50\,\%\,$ of the total cost for ecosystem services goes to:

A. Nutrient

B. Recreation

C. Soil formation

D. climate regulation

Answer: c

Vatch Video Solution
2. Quercus species is the dominant component in
A. Scrub foresits
B. Tropical rain forests
C. Temperate deciduous forests
D. Alpine forests
Answer: c
Watch Video Solution

3. Match coloumn I (Indian forest types) wth Column II (dominant tree gendra) and choose the correct option.

ſ.	Column I		Column II	
Α.	Tropical rain forest	1.	Hopea	
В.	Tropical deciduous	2.	Shorea	
	forest			
C.	Temperate broad leaf	3.	Quercus	
	forest			
D.	Temperate coniferous	4.	Picea	
	forest			

A. A-1,B-2,C-3,D-4

B. A-2,B-1,C-4,D-3

C. A-3,B-2,C-1,D-4

D. A-1,B-2,C-4,D-3

Answer: a

View Text Solution

4. Most of the tree dwellers are found in which type of forest

A. Deciduous forest

B. Tropical rain forest

C. Tundra

D. Grassland

Answer: b

View Text Solution

5. $-1^{\circ}C$ to $13^{\circ}C$ annual variations in the intensity and duration of temperature and 50 to 250cm. Annual variation in precipitation, account for the formation of a major biome as

Or

Extensive geographical belt of forest known as 'Taiga' belongs to

A. Temperature forest

B. Coniferous forest

C. Tropical forest

D. Grassland

Answer: b

6. Which one of the following is commonly found in temperate coniferous

forest

A. Quercus

B. Dipterocarpus

C. Sharea roubusta

D. Pinus wallichiana

Answer: d

View Text Solution

7. A natural region characterized by hot summer, warm winter and treeless vegetation is:

A. Tropical desert

B. Stepes grassland

C. Savannah grassland

D. Temperatre desert

Answer: a

Watch Video Solution

8. Biome is

A. A part of the planet and its atmosphere

B. Interacting communiteis of organism and its enviroments

C. Biotic flora of a place

D. Biotic fauna of a place

Answer: b

Watch Video Solution

9. Sal and teak is the dominant species in which of the following forests

A. Tropical dry decidous forests

B. Temperature deciduous forest

C. Temperate rain forest

D. None of the above

Answer: a

View Text Solution

10. The grasslands in Asia are known as:

A. Savannah

B. Pampas

C. Steppes

D. Veldt

Answer: c



11. Estuaries are considered as nutrient trap due to the mixing of:

A. River and sea water

B. Pond and lake

C. Lake and river

D. Ocean and pound

Answer: a

Watch Video Solution

12. Plains with snow, ice and frozen soil for most of the year are found in

A. Chapperal

B. Taiga

C. Tundra

D. Savannah

Answer: c

Watch Video Solution

13. Choose the wrong pair :

A. Salvodora-Desert

B. Ables-Coniferous forest

C. Quercus-Broad leaf forest

D.

Answer: e

Watch Video Solution

14. Which one of the following pairs is mismatched

A. Tundra -permafrost

B. Savanna-acacia trees

C. Prairie -epiphytes

D. Coniferous forest-evergreen trees

Answer: c

View Text Solution

15. Taiga refers to

A. Temperate deciduous forestq

B. Subtropical semi-deciduous forest

C. Evergreen forest

D. North temperate coniferous forest

Answer: d

View Text Solution

16. Actively moving organisms in aquatic ecosystem are

A. Phytoplankton

B. Zooplankton

C. Nekton

D. Benthos

Answer: c



17. Maximum aborption of rainfall water is done by

A. Tropical deciduous forest

- B. Tropical evergreen forest
- C. Tropical sevannah
- D. Scrub forest

Answer: b

View Text Solution

18. The sphere of living matter together with water, air and soil on the

surface of Earth is called:

A. Lithosphere

B. Biosphere

C. Hydrosphere

D. Atmosphere

Answer: b

Watch Video Solution

19. Which is the main cause for the extinction of some species in tropical

forest?

A. Deforestation

B. Afforestation

C. Pollution

D. Soil erosion

Answer: a

Watch Video Solution

20. Which of the following have evergreen vegetation and drought adapted animals?

A. Chapparal

B. Savannah

C. Tundra

D. Deciduous forest

Answer: a

Watch Video Solution

21. Plants such as Prosopis, Acacia and Capparis represent examples of

tropical

A. Grassland

B. Thorny deserts

C. Deciduous forest

D. Evergreen forests

Answer: b

View Text Solution

22. Large Woody vines are more commonly found in:

A. Alpine forests

B. Temperate forests

C. Mangroves

D. Tropcal rainforests

Answer: d

Watch Video Solution

23. Tropical rain forests are found in

Or

Where do tropical wet evergreen forests occur in India.

A. Andamans

B. Bihar

C. Himachal Pradesh

D. Jammu and Kashmir

Answer: a



24. Succulent xerophytes are likely to be found in

A. Tropical rain forest

B. Deciduous forest

C. Desert

D. Tundra

Answer: c



25. Savannah's are

- A. Tropical rain forest
- B. Desert
- C. Greenland with scattered trees
- D. Dense forest with close canopy

Answer: c



26. In India coniferous forests are found in:

A. Madhya Pradesh

B. Himalaan region

C. Satpura hills

D. Rajathan

Answer: b



27. In India tropical evergreen forests occur in

A. Himachal Pradesh

B. Himalayan region

C. Assam

D. Tamil Nadu

Answer: c

View Text Solution

28. Rhododendron is characteristic vegetation of-

A. Tropical zone

B. Alpine zone

C. Gangetic plains

D. Mangrove belt

Answer: b



29. MAB stands for :

A. Man and biosphere

B. Man antibiotics and bacteria

C. Man and biotic community

D. Mayer, Anderson and Bishb

Answer: a



30. The upper part of sea water mainly contains

A. Nektons only

B. Planktons only

C. Nektons and planktons both

D. None of the above

Answer: b

View Text Solution

31. Alpine plants show

A. Mesophytism

B. Halophytism

C. Xerophytism

D. Luxuriant growth

Answer: c

View Text Solution

32. Which of the following rain forest is home to more than 40,000 species of plants, 3,000 of fishes. 1,300 of birds, 427 of mammals, 427 of amphibians, 378of reptiles and more that 1,25,000 invertebrates

or

Which is referred to as "Lungs of the planet earth"

A. Amazoian

B. Tropical

C. Arctic tundra

D. Temperate

Answer: a

O View Text Solution

33. The region consisting of long and severe winters and grwoting season

consisting of few months of summers constitutes.

A. Savannah ecosystem

B. Tiaga ecosystem

C. Tundra ecosystem

D. None of the above

Answer: c

View Text Solution

34. A large regional unit characterised by vegetation type and associated

fauna found in a specific climatic zone is called:

A. Ecossytem

B. Biological community

C. Biome

D. Habitat

Answer: c

35. Which one is a correct matching of plnt, its habitat and the forest

type where it normally occurs

A. Prosopis,. Tree,scrub

B. Sacharum, grass, forest

C. Shorea robusta, herb, tropical rain forest

D. Acacia catechu, tree, coniferous forest

Answer: a

Watch Video Solution

36. Savannah is found commonly in

A. U.S.A

B. U.S.S.R.

C. Australia

D. India

Answer: c

Watch Video Solution

37. They are dominant plants of the cold desert

A. Shrub and small trees

B. Low stature shrub and perennial grass

C. Tall trees and herbaceous plants

D. Low stature shrub and herbaceous plants

Answer: d

View Text Solution

38. Tropical dense forest is characterized by :

A. High temperature and excess rain

B. Low temperature and excess rain

C. High temperature and lessel rain

D. Wild animals (tigers, lions, bears etc.)

Answer: a

Watch Video Solution

39. Which one is not dangerous for life and atmosphere

A. Biopollutants

B. Ozone layer

C. Nuclear blast

D. Deforestation

Answer: b

D View Text Solution

40. Treeless terrestrial biome of cold climate is:

A. Savannah biome

B. Chapparal biome

C. Temperate biome

D. tundra biome

Answer: d

Watch Video Solution

41. Terai forest is :

A. Tropical

B. Conferrous

C. Deciduous forest

D. Temperate deciduous

Answer: a

Watch Video Solution

42. The organisms which live in the bottom of lake are called:

A. Phytoplanktons

B. Zooplanktons

C. Nektons and planktons both

D. Benthos

Answer: d

Watch Video Solution

43. The salinity of the oceans is

A. Increasing

B. Decreasing

C. Constant

D. Decreasing now but was increasing in past

Answer: d

View Text Solution

44. Which of the following communities is more vulnerable to invasion by

outside animals and plants?

A. Mangroves

- B. Tropical evergreen forests
- C. Temperate forests
- D. Oceanic island communities

Answer: b



45. In desert grasslands, which type of animals are relatively more abundant

A. Diurnal

B. Arboreal

C. Aquatic

D. Fossorial

Answer: d

View Text Solution

46. Moderate rainfall during summer produces:

A. Desert

B. Grasslands

C. Scrub forests

D. Deciduous forests

Answer: d

Watch Video Solution

47. The forest that colours in autumn is

A. Temperate evergreen forest

B. Temperate deciduous forest

C. Tropical evergreen forest

D. Tropical decidous forest

Answer: b

View Text Solution

48. Relative to roots, the shoots are massive in plants of

A. Deserts

B. Moist temperate

C. Tundra

D. Moist tropical forests

Answer: d

View Text Solution

49. Which one has the maximum biomass

Or

Which part of the world has a high diversity of organisms

Or

Which one of the following ecosystem types has the highest annual net

preimary productivity.

Presence of plants arranged into well defined vertical layers depending

on their height can be seen best in

A. Temperate forest

B. Tropical rain forest

C. Alpine vegetation

D. Taiga

Answer: b

View Text Solution

50. Temperate evergreen forests are found in:

A. Himalyan ranges

B. Western ghats

C. Aravalli ranges

D. Assam

Answer: a



51. Desert biome does not support much vegetation as it lacks

A. Sufficient light

B. Favouratble temperature

C. Sufficient water

D. Sufficient nutrients

Answer: c

View Text Solution

52. Startification is more common is which of the following ?

A. Tropical rain forest

B. Deciduous forest

C. Temperate forest

D. Tropical savannah

Answer: a

Watch Video Solution

53. Deciduous forests have:

A. Variety of grasses

B. Broad-leaved trees

C. Narrow-leaved trees

D. Variety of c rocodiles

Answer: b



54. In which one of the following habitats does the diurnal temperature

of soil surface vary most?

A. Desert

B. Grassland

C. Shrub land

D. Forest

Answer: a

O Watch Video Solution

55. In India tropical wet evergreen rain forests are not found in

A. Tamil nadu

B. Andamna

C. West bengal

D. Madhya Pradesh

Answer: d

View Text Solution

56. An inverted pyramid of biomass can be found in which ecosystem?

A. Rain forest

B. Desert

C. Ocean

D. tundra biome

Answer: b

Watch Video Solution

57. The limiting factor in nitrification of soil is

A. pH

B. Temperature deciduous forest

C. Light

D. Air

Answer: a

Watch Video Solution

58. Which one of the following is not a gaseous biogeochemical cycle in

ecosystem?

A. Sulphur cycle

B. Phosphorus cycle

C. Nityrogen cycle

D. Carbon cycle

Answer: b

59. In nitrogen cycle, which of the following plays an important role ?

A. Rhizopus

B. Nitrobacter

C. Mucor

D. All green algae

Answer: b

Watch Video Solution

60. Biochemical cycle with gaseous phase is

A. Carbon

B. Sodium

C. Phosphorus

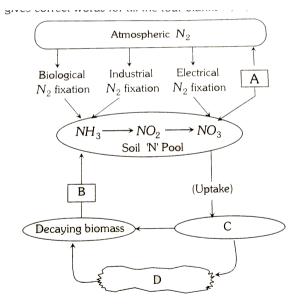
D. Magnesium.

Answer: a



61. Study the cycle shown below and select the option which gives correct

words for all the four blanks, A,B,C and D.



	Α	В	С	D	
(a)	Nitrification	Ammonification	Animals	Plants	
(b)	Denitrification	Ammonification	Plants	Animals	
(c)	Nitrification	Denitrification	Animals	Plants	
	Denitrification	Nitrification	Plants	Animals	
(d)	Deniumcauon	Tulineauen			

BCAD A. Nitrification Ammonification Animals Plasts BCD AΒ. Dentrification Ammonification Plants Animals BCDAC. Nitrification Dentritification Animals Plants AB CD D. Dentrification Nitrification Plants Animals

Answer: b

View Text Solution

62. In which of the following both pairs have correct combination?

A.

Gaseous nutrient cycle Sedimentary nutrient cycle carbon and sulph

Β.

Gaseous nutrient cycle Sedimentary nutrient cycle Nitrogen and sul

C.

Gaseous nutrient cycle Sedimentary nutrient cycle Sulphur and pho

D.

Gaseous nutrient cycle Sedimentary nutrient cycle Carbon and nitre

Answer: d

Watch Video Solution

63. About $71\,\%\,$ of total global carbon is found is

A. Oceans

B. Forests

C. Grasslands

D. Agroecoystems

Answer: a

64. Maximum O_2 evolution occurs from

A. Phytoplankton

B. Grasslands

C. Herbs and shurbs

D. Dense forest

Answer: a

Watch Video Solution

65. Crystalline rocks are natural source of biogenetic element

A. Calcium

B. Phosphorus

C. Magnesium

D. Sodium

Answer: b



66. Amount of nitrogen fixed celectrochemically and photochemically is

- A. $140 mg/m^2/yr$
- B. $78mg/m^2/yr$
- C. $35mg/m^2/yr$
- D. $15mg/m^2/yr$

Answer: c

View Text Solution

67. Study of Biogeochemical cycles is called Biogeochemistry its father is

Vernadsky (=winodgsky). It involves.

A. Cycling of energy

B. Cycling of gases

C. Cycling of nutrients

D. Cycling of water

Answer: c

View Text Solution

68. In the phosphorus cycle, weathering makes phosphate available first

to:

A. Consument

B. Producers

C. Decomposers

D. None of these

Answer: b



69. What are biogeochemical cycles?

A. Two types

B. Three types

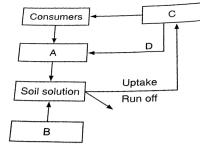
C. Four types

D. Five types

Answer: a

Watch Video Solution

70. Given below is a simplified model of phosphorus cycling in a terrestrial ecosystem with four blanks (A-D). Identify the blanks.



A	В	С	D
(a) Producer	s Litter fall	Rock minerals	Detritus
(b) Rock minerals	Detritus	Litter fall	Producers
(c) Litter fall	Producers	Rock minerals	Detritus
(d) Detritus	Rock minerals	Producers	Litter fall

BCDAA. Deltritus Rock minerals Producer Litter fall B C DAΒ. Producers Litter fall Rock minerals Detritus CBD AC. Rock minerals Detritus Litter fall Producers BCDAD. Litter fall Producers Rock minerals Detritus

Answer: a

71. Cycling of elements in an ecosystem is called

Or

Which of the following cycle would be affected if decomposers of an ecosystem vanish

A. Chemical cycle

B. Geochemical cycle

C. Biogeochemical cycle

D. Geological cycle

Answer: c



72. The reservoir pool for gaseous cycles of matter is

A. Atmosphere

B. Hydrosphere

C. Both a and b

D. Lithosphere

Answer: c

Watch Video Solution

73. One way cycle is

A. CO_2 cycle

B. H_2O cycle

C. Free energy cycle

D. O_2 cycle

Answer: c

74. For recycling of materials which one is most necessary

A. Producers

B. Consumers

C. Decomposers

D. None of above

Answer: c

Watch Video Solution

75. Burning of fossil fuels affects

A. Nitrogen cycle

B. Carbon cycle

C. Phosphorus dioxide

D. Hydrogen

Answer: b



76. Which of the following is present in maximum amont in atmosphere

A. Oxygen

B. Nitrogen

C. Carbon dioxide

D. Hydrogen

Answer: b

Watch Video Solution

77. CO_2 content of atmosphere has increased in the last 150 years from

A. 25 to 35 ppm

B. 270 to 340ppm

C. 0.027 to 0.34ppm

D. 0.2 to 0.3 ppm

Answer: b

Watch Video Solution

78. The phosphorus rich fertilizer obtained from sea birds along the coast

of Chile and Peru, is

A. Guano

B. Bone meal

C. Dung

D. Urea

Answer: a

79. Nitrogen is a critical element of the ecosystem because it is

A. Essential element

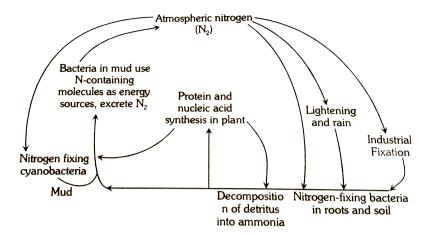
B. Abundent in atmosphere

C. Labile

D. Fixed by microbes

Answer: c

80. Figure given below refers to the nitrogen cycle



Which of the folowing is NOT part of the natural nitrogen cycle.

A. Fossil fuels

B. Biological fixation

C. Ligtening

D. Decomposition

Answer: a

81. In water receiving regions, what does forest regulate

A. Hydrological cycle

B. Carbon cycle

C. Nitrogen cycle

D. Calcium cycle

Answer: a

Watch Video Solution

82. Phosphorus is mostly found in rocks in combination with

A. Calcium

B. Iron

C. Aluminium

D. All of these

Answer: d



83. Phosphorus cycle is

A. Gaseous cycle

B. Perfect cycle

C. Imperfect cycle

D. Partly gaseous and partly sedimentary

Answer: c

Watch Video Solution

84. Phosphorus of ocean becomes available to land plants due to

A. Sea birds

B. Deep sea activites

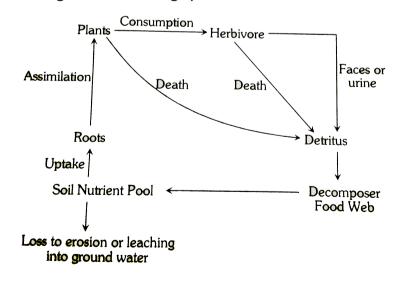
C. Ocean spray

D. All of these

Answer: a

Watch Video Solution

85. Which of the following is NOT true for the biogeochemical cycle according to the following cycle.



A. Nutrietns remain in an animal until the animal death

- B. If the plant dies the nutrients and the plant biomass become litter
- C. Nutrients pass to animal membres of the ec osystem once plants are eaten.
- D. Nutrients are taken up from the soil by plants and incorporated

into plant tissue.

Answer: a

Watch Video Solution

86. Phosphorus cycles in the form of

A. HPO^{3-}

B. P^2 (gas)

C. Po_4^{3-}

D. $Al_2(PO_4)_3$

Answer: c

87. Inorganic element that changes food into usable energy is

A. S

B. P

C. Ca

D. Mg

Answer: b

Watch Video Solution

88. Degradation of proteins play a part in

A. Calvin cycle

B. Water cycle

C. Sulphur cycle

D. Nitrogen cycle

Answer: d



89. The slow rate of decomposition of fallen logs in nature is due to their

A. Anaerobic environment around them

B. Low cellulose content

C. Low moisture content

D. Poor nitrogen content

Answer: c



90. In India, temperate evergreen vegetation occurs mostly in

- A. Rajasthan and South Punjab
- B. Eastern of Western, Himalays less than 3500m
- C. Western Himalayas above 3500m
- D. Western Ghats and Assam

Answer: b



91. The most striking difference between tropical rain forest and temperature forest is that

A. The tropical rain forests have preponderance of angiospherms

while the temperate one have perponderance of gymnosperms

- B. The trees of temperate forests are taller than those of tropical rain forests.
- C. Plants of temperate forests are comparatively more mesophytic

D. Tropical forests are comparatively more homogeneous

Answer: a



92. Alpine forests of Himalays have

A. Tall evergreen coniferous trees

B. Tall broad leaved evergreen trees

C. Tall broad leaved deciduosu trees Dwarf shrubby plants

D.

Answer: d

Watch Video Solution

93. Alpine forest occur at altitude

A. 3900-6000m

B. 1900-3000m

C. 1000-1500m

D. 500-1000m

Answer: a

Watch Video Solution

94. The reservoir for the gaseous type of biogeochemical cycle exists in

A. Stratosphere

B. Atmosphere

C. Lonosphere

D. Lithosphere

Answer: b

95. A treeless biome is

A. Tundra -permafrost

B. Grassland

C. Desert

D. All of above

Answer: d

Watch Video Solution

96. More than half of the earth's flora and fauna is found in

A. Tropical rain forests

B. Montane temperte forests

C. Decidouos forests

D. Alpine forests

Answer: a



97. Among the following biogeochemical cycles, which one does not have

losses due to repiration?

A. Phosphorus

B. Nitrogen

C. Sulphur

D. All of the above

Answer: d

98. Assertion: Biomes are the major ecosystem of the world.

Reason: Tundra is an example of biome.

A. If both the assertion and the reason one true and the reason is a

correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a

correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: b

Watch Video Solution

99. Assertion: Taiga is also called North coniferous forest.

Reason: The ground flora is absent in Taiga.

A. If both the assertion and the reason one true and the reason is a

correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a

correct explanation of the assertion

- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: c

Watch Video Solution

100. Assertion: Temperate decidous forest is two-storeyed forest.

Reason: Two stories are formed of soft-wood and hard-wood trees.

A. If both the assertion and the reason one true and the reason is a

correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a

correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: d

Watch Video Solution

101. Assertion: When the rain forest is removed, grasslands appear.

Reason: In rain forest, nutrient cycling is slow.

A. If both the assertion and the reason one true and the reason is a

correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a

correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: d



102. Assertion: Chapparal is also called 'shurb' "Forest".

Reason: Treea are totally absent in chapparal.

Assertion: Savannahs show rich species diversity.

Reason: The biome is prone to fires.

A. If both the assertion and the reason one true and the reason is a

correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a

correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If both the assertion and reason are false

Answer: c

Watch Video Solution

103. Assertion: Savannhs show rich species diversity.

Reason: The biome is prone to fires.

A. If both the assertion and the reason one true and the reason is a

correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a

correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If the assertion is false but reson is true

Answer: d

104. Assertion: Excess of sulphur reaches to reservoir pool.

Reason: Thiobacillus and Desulpho vibrio convert elemental sulphur into the sulphate.

A. If both the assertion and the reason one true and the reason is a

correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a

correct explanation of the assertion

- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: c

Watch Video Solution

105. Assertion: The whole of biogenetic nutrients show circulation.

Reason: Biogeochemicals cycles operate in the biosphere.

A. If both the assertion and the reason one true and the reason is a

correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a

correct explanation of the assertion

- C. If the assertion is true but the reason is false
- D. If the assertion is false but reson is true

Answer: d

> Watch Video Solution

106. Read the given statement and select the correct option.

Statement 1: Tropical rainforests are disappearing fastly from developing

countries such as Indai.

Statement 2 : No value is attached to these forests because these are poor in biodiversity.

A. If both the assertion and the reason one true and the reason is a

correct explanation of the assertion

B. If both the assertion and reason are true but the reason is not a

correct explanation of the assertion

- C. If the assertion is true but the reason is false
- D. If both the assertion and reason are false

Answer: c