

# **BIOLOGY**

# **BOOKS - TRUEMAN BOOK COMPANY BIOLOGY (HINGLISH)**

# **ECOSYSTEM**



- 1. The tiny free-swimming animals on the surface of water constitue
  - A. phytoplankton
  - B. nekton
  - C. benthos
  - D. zooplankton

Answer: D



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2. A rat feeding on potato tuber is a
A. carnivore
B. decomposer
C. producer
D. primary consumer
Answer: D  Watch Video Solution
3. The nature's cleaners are
A. producers
B. consumers
C. decomposers

Answer: C
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4. Total amount of living material at the various trophic levels of a food chain is depicted by pyramids of
A. numbers
B. energy
C. biomass
D. all of these
Answer: C
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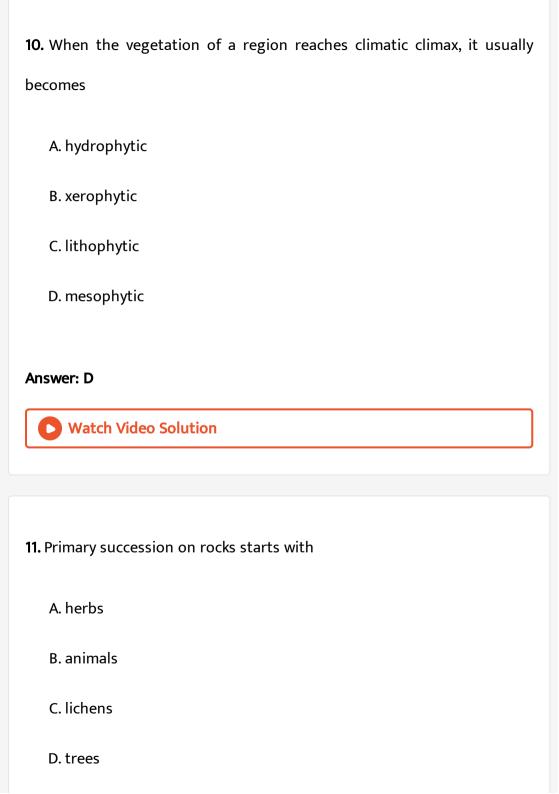
D. symbiosis

5. The more abundant animals in a desert and grassland are
A. arboreal
B. dirunal
C. aquatic
D. fossorial
Answer: D
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6. In a food chain, the largest population is that of
A. primary consumers
B. Tertiary consumers
C. producer
D. decomposers

# Answer: D **Watch Video Solution** 7. The nature of climax community is most dependent upon A. climate B. water C. soil fertility D. none Answer: A **Watch Video Solution** 8. Biogeochemical cycles are also called A. gaseous cycles

C. material cycles
C. Material Cycles
D. water cycles
Answer: C
Watch Video Solution
9. Plant succession occurring in a sandy area is
A. psammosere
B. hydrosere
C. halosere
D. lithosere
Answer: A
Watch Video Solution

B. sedimentary cycles



# **Answer: C** Watch Video Solution 12. First plants to appear on a badly burnt forest area will be A. mosses B. ferns C. liverworts D. grasses **Answer: B Watch Video Solution** 13. Pioneer in a hydrosphere are A. Diatoms

C. lichens D. Lemna Answer: A **Watch Video Solution** 14. The rate at which light energy is changed into chemical energy of organic molecules by the producers is A. net primary productivity B. gross primary productivity C. net secondary productivity D. gross secondary productivity **Answer: B Watch Video Solution** 

B. ferns

<b>15.</b> The concept of ecological pyramids was given by
A. Darwan
B. Odum
C. Reiter
D. Elton
Answer: D
Watch Video Solution
<b>16.</b> Frog that feeds on insects is a
A. primary consumers
B. secondary consumer
C. tertiary consumer

#### **Answer: B**



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**17.** If by radiation all nitrogenase enzymes are inactivated, then there will be no

- A. fixation of atmospheric nitrogen
- B. conversion from nitrate to nitrite in legumes
- C. conversion from ammonium to nitrate in soil
- D. fixation of nitrogen in legumes

### Answer: A



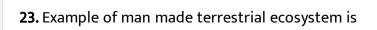
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18. Which of these belong to the category of primary consumers?

A. Insects and cattle B. Eagle and snakes C. Water insects and lizards D. Snakes and frogs Answer: A **Watch Video Solution** 19. GPP is equal to A. NPP+Loss of cellular respiration B. NPP-Loss of respiration C. NPP D. Loss of cellular respiration Answer: A Watch Video Solution

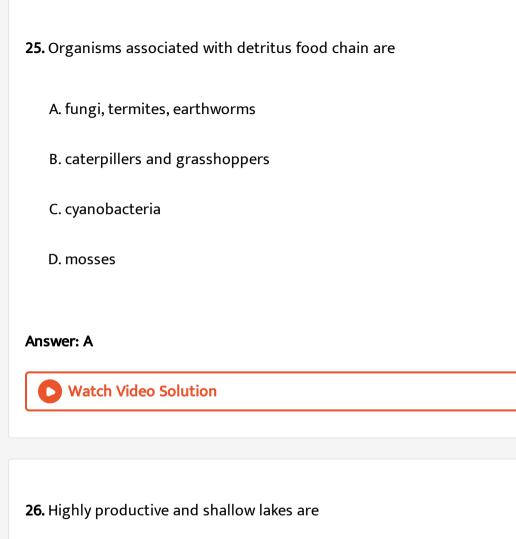
20. In ecosystem, the insectivorous plants are placed in
A. herbivorous
B. primary producers
C. predators
D. none correct
Answer: B
Watch Video Solution
Watch Video Solution
Watch Video Solution  21. Round worms in the intestine of human beings are belonging to
21. Round worms in the intestine of human beings are belonging to
21. Round worms in the intestine of human beings are belonging to  A. trophic level -1

D. trophic level -5
nswer: C
Watch Video Solution
2. Nitrosomonas and Nitrobacter like nitrifying bacteria are members of
A. trophic level -1
B. trophic level -2
C. trophic level -5
D. none correct
nswer: A
Watch Video Solution



B. rivers C. grasslands D. botanical gardens and parks **Answer: D Watch Video Solution** 24. On earth, maximum amount of dry matter is synthesized by A. sea weeds B. forest trees C. diatoms and dinoflagillates D. grasses and sedges Answer: C **Watch Video Solution** 

A. forests



A. oligotrophic lakes

B. eutrophic lakes

C. lotic waters

D. none correct
Answer: B
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<b>27.</b> Predaceous fungi belong to
27.1 redaceous fullgi belong to
A. decomposers
B. primary consumers
C. herbivorous
D. secondary consumers
Answer: D
Watch Video Solution
28. Parastitic angiosperms are

**Answer: B Watch Video Solution** 29. Primary productivity is measured in terms of A. Kg per  $m^2$  per yr B. g per  $m^2$  per yr C. Tonnes per hactare per yr D. All correct Answer: D **Watch Video Solution** 

A. tertiary consumers

B. primary consumers

C. secondary consumers

D. decomposers

# **30.** Predators derive energy from A. live hosts

B. animal tissues only

C. living as well as dead host body

D. decaying organic matter

### **Answer: A**



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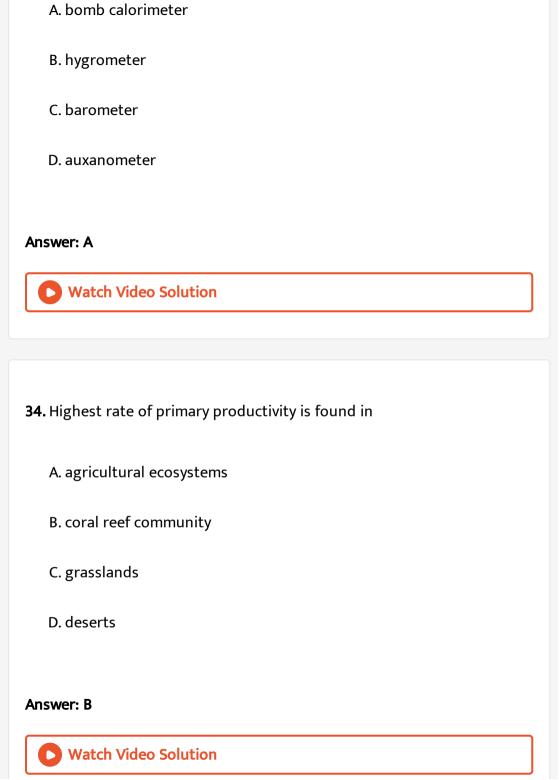
# **31.** Osmotrophs belong to

A. primary consumers

B. secondary consumer

C. top carnivores

D. decomposers
Answer: D
Watch Video Solution
<b>32.</b> Limnology is related to
A. study of fresh-waters
B. grasslands
C. oceanography
D. epiphytic plants
Answer: A
Watch Video Solution
<b>33.</b> Energy content of the biomass is determined by using



**35.** Which one is a secondary consumer? A. Photoautrotrophs **B.** Parasites C. Omnivores and phagotrophs D. Saprotrophs **Answer: C Watch Video Solution** 36. A branch of ecology which is concerned with the study of individual species at all stages of its life cycle in relation to environment is called A. ecological niche B. synecology

C. reproductive ecology

D. autecology

#### **Answer: D**



**Watch Video Solution** 

**37.** The study of an entire community in relation to its environment is called

A. autecology

B. synecology

C. resource ecology

D. space ecology

## Answer: B



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**38.** Both the zebra and African lion live in the tropical grasslands but occupy different.

A. biospheres

B. environments

C. ecological niches

D. habitats

#### **Answer: C**



**39.** Competition for nutrients, food, light and space is more severe between two

A. unrelated species occupying different niches

B. unrelated species occupying the same niche

C. closely related species occupying the same niche

D. closely related species occupying different niches
Answer: C
Watch Video Solution
<b>40.</b> Which of the following ecosystem is least productive ?
A. Deep oceans
B. Moist forest
C. Shallow oceans
D. Grasslands
Answer: A
Watch Video Solution

**41.** When man eats fish, which feeds on zooplankton, which have eaten small plants, the producer in the chain is

- A. fish
- B. small plants
- C. zooplankton
- D. man

## **Answer: B**



**Watch Video Solution** 

- **42.** An ecosystem is a complex interacting system of
  - A. populations
    - B. individuals
  - C. communities and their soil conditions
  - D. communities and their physical environment

# Answer: D Watch Video Solution 43. Largest terrestrial community of an entire geographical belt over which plant and animal species may be found is called A. biome B. habitat C. range D. niche Answer: A



Watch Video Solution

A. shrubs, jungles and gardens B. ocean, grassland and forest communities C. parks, ponds and lakes D. both (2) and (3) **Answer: B Watch Video Solution** 45. Desert can be converted into grassland by A. plankton B. psammophytes C. halophytes D. tropical trees Answer: B **Watch Video Solution** 

<b>46.</b> Which type of forest is found near equator?
A. Coniferous forests
B. Grasslands
C. Deciduous forests
D. Tropical forests
Answer: D  Watch Video Solution
47. What is plankton ?
A. Pond scum
B. Floating vegetation
C. Benthic organisms

D. Floating microscopic plants and animals
Answer: D
Watch Video Solution
<b>48.</b> Plants which are attached to the stones and rocks are
A. halophytes
B. aerophytes
C. lithophytes
D. psammophytes
Answer: C
Watch Video Solution
<b>49.</b> Biogeochemical cycling means

- A. cycling of water
- B. cycling of nutrients in an ecosystem
- C. cycling of energy in an ecosystem
- D. cycling of gases between plants and the atmosphere

#### Answer: B



**Watch Video Solution** 

- **50.** Which of the following is the logical sequence of carbon cycle?
  - A. Photosynthesis-consumer-decomposer
  - B. Photosynthesis-decomposer-consumer
  - C. Consumer-photosynthesis-decomposer
  - D. Decomposer-photosynthesis-consumer

## Answer: A



**Watch Video Solution** 

51. Maximum contribution of oxgyen is got from
A. grasslands
B. phytoplankton
C. dense forests
D. herbs and shrubs
Answer: B
Watch Video Solution
52 Rurning of fossil fuels affects one of the following cycles in nature

A. water cycle

B. nitrogen cycle

C. phosphorous cycle

D. carbon cycle
Answer: D
Watch Video Solution
<b>53.</b> All populations in a given physical area are defined as
A. population
B. ecosystem
C. biotic community
D. territory
Answer: C
Watch Video Solution
<b>54.</b> Stratification is present in

B. grasslands C. trophical rain forest D. both (2) and (3) **Answer: B Watch Video Solution** 55. Which of the following utilizes inorganic materials? A. Autorophs **B.** Decomposers C. Saprophytes D. Heterotrophs **Answer: B Watch Video Solution** 

A. desert

<b>56.</b> Which of the following is an artificial ecosystem?
A. Forest
B. Lake
C. Rice field
D. Grassland
Answer: D  Watch Video Solution
57. Factors connected with form and behaviour of earth's surface are
A. edaphic
B. topographic
C. geological

D. geographic
Answer: D
Watch Video Solution
58. In an ecosystem bacteria are considered as
A. microconsumers
B. macroconsumers
C. primary consumers
D. secondary consumers
Answer: C
Watch Video Solution

**59.** In which ecosystem species diversity is low?

A. Tundras B. Deciduous forests C. Deserts D. Grasslands **Answer: B Watch Video Solution 60.** The term biosphere used for the zone of earth where life exists is A. lithosphere B. hydrosphere C. lithosphere and hydrosphere D. lithosphere, hydrosphere and atmosphere Answer: A **Watch Video Solution** 

**61.** In India, tropical rain forests occur in

A. Jammu and Kashmir

B. Andamans

C. Uttar Pradesh

D. Himachal Pradesh

#### **Answer: B**



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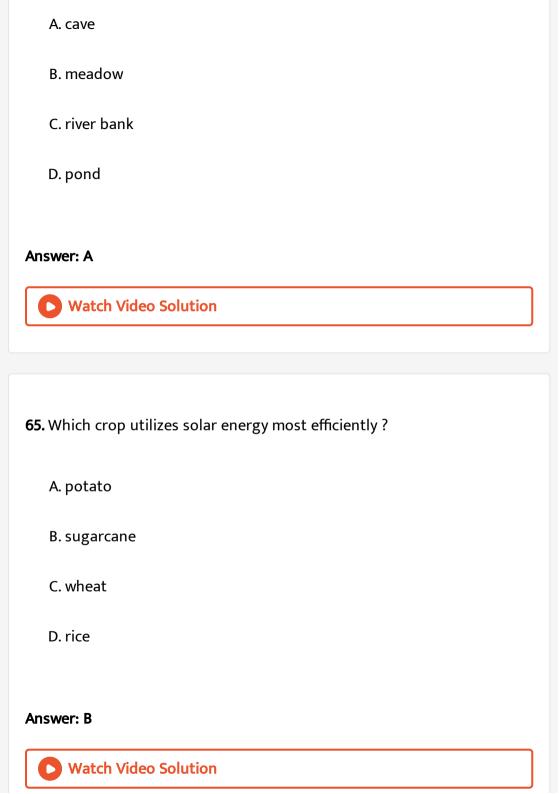
**62.** What fraction of assimilated energy is used in respiration by the herbivore ?

A. 20 per cent

B. 30 per cent

C. 40 per cent

D. 60 per cent
Answer: B  Watch Video Solution
<b>63.</b> Position of herbivores in the pyramid of biomass is
A. first
B. second
C. third
D. last
Answer: B
Watch Video Solution
<b>64.</b> A habitat not suitable for primary productivity is



<b>66.</b> An	ecosystem	is
<b>00.</b> All	CCOSYSTCIII	13

- A. always open
- B. always closed
- C. both open and closed on the basis of community
- D. may be open or closed based on biomass

#### Answer: A



- 67. One of the following is not an example of prey-predator food chain
  - A. Mangrove o Shed leaves o Detritus o Shrimps o Small fishes
    - ightarrow Large fishes
  - B. Grass o Grasshopper o Lizard o Hawk

C. Green plants o Deer o Tiger

 $\mathsf{D}.\,\mathsf{Grass} \to \mathsf{Grasshopper} \to \mathsf{Frog} \to \mathsf{Snake} \to \mathsf{Eagle}$ 

#### Answer: A



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# **68.** One way cycle is

A. carbon cycle

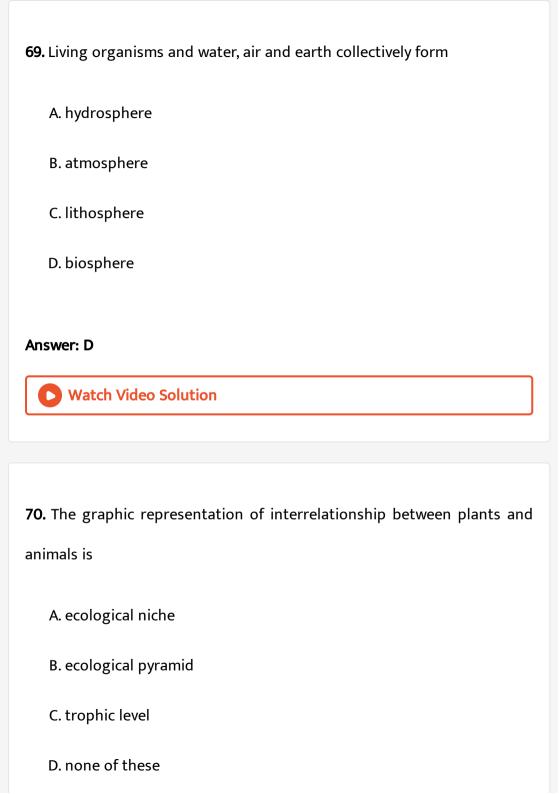
B. water cycle

C. free energy cycle

D.  $O_2$  cycle

# Answer: C





# **Watch Video Solution** 71. Ecosystem of a pond is A. Lotic B. Lentic C. Benthic D. Xeric **Answer: B Watch Video Solution** 72. Maximum biomass of autotrophs in oceans is formed by A. benthic brown algae, coastal red algae and moulds

Answer: B

- B. seagrass and slime moulds C. free floating microalgae, cyanobacteria and nanoplanktons D. benthic diatoms **Answer: C Watch Video Solution** 73. In a lake, the upper warmer oxygen-rich water zone is called
- - A. epilimnion
  - B. hypolimnion
  - C. limnetic zone
  - D. profundal zone

#### Answer: A



<b>74.</b> The statement "Tiger is the apex of food chain" indicates
A. tiger is carnivore
B. tiger has many enemies
C. tiger has maximum biomass
D. tiger is dependent upon large number of trees
Answer: A
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<b>75.</b> Which type of the following pyramids are never inverted ?
A. pyramid of energy

B. pyramid of biomass

C. pyramid of number

D. pyramid of dry biomass

# Answer: A



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76. Which one is an inverted pyramid?

A. pyramid of numbers in a grassland

 ${\bf B.}\ {\bf pyramid}\ {\bf of}\ {\bf energy}\ {\bf in}\ {\bf pond}\ {\bf ecosystem}$ 

C. pyramid of biomass in a grassland

D. pyramid of biomass in pond ecosystem

#### Answer: D



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77. Treeless terrestrial biome of cold climate is

A. taiga

B. savanna C. tundra D. plankton **Answer: C Watch Video Solution** 



# **78.** A biome is

- A. sum of ecosystems in a geographical area
- B. sum of all ecosystems on the earth
- C. biotic components in a population
- D. biotic components in an ecosystem

#### Answer: A



<b>79.</b> Second trophic level in a lake is
A. fishes
B. phytoplankton
C. zooplankton
D. benthos
Answer: C
Watch Video Solution
80. Which one has maximum biomass ?
A. Temperate forest
B. Tropical rain forest
C. Alpinc vegetation
D. Deserts

# **Answer: B**



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**81.** In grass-deer-tiger food chain, grass biomass is one tonne. The tiger biomass shall be

- A. 100 kgs
- B. 10 kgs
- C. 200 kgs
- D. 1 kg

#### **Answer: B**



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82. Tip of an ecological pyramid is occupied by

- A. producers
- B. herbivores
- C. carnivores
- D. none of the above

#### **Answer: C**



**Watch Video Solution** 

- 83. Choose the correct sequence
  - A. phytoplankton o zooplanktons o crustacean o fish
  - B. crustaccans  $\rightarrow$  fish  $\rightarrow$  zooplankton  $\rightarrow$  phytoplankton
  - C. zooplanktons ightarrow phytoplanktons ightarrow crustaceans ightarrow fish
  - D. fish  $\rightarrow$  crustaceanrarzooplankton  $\rightarrow$  phytoplankton

# Answer: A



<b>84.</b> In which habitat does the diurnal soil temperature vary most ?	
A. Forest	
B. Grassland	
C. Shrubland	
D. deserts	
Answer: D	
Watch Video Solution	
<b>85.</b> Which of the following is most stable ecosystem?	
A. Mountain	
B. Desert	
C. Forest	

D. Ocean
Answer: D
Watch Video Solution
<b>86.</b> The great barrier reef along the east coast of Australia can be
categorized as
A. population

B. community

C. ecosystem

Watch Video Solution

D. biome

**Answer: C** 

87. What is a keystone species?

A. A rare species that has minimal impact on the biomass and on other species in the community

B. A dominant species that constitutes a large proportion of the biomass and which affects many other species

C. A species which makes up only a small proportion of the total biomass of a community, yet has a huge impact on the community's organization and survival

D. A common species that has plenty of biomass, yet has a fairly low impact on the community's organization

#### **Answer: C**



**88.** An ecosystem which can be easily damaged but can recover after some time if damaging effect stops will be having

- A. low stability and low resilience
- B. high stability and high resilience
- C. low stability and high resilience
- D. high stability and low resilience

#### **Answer: C**



- **89.** Which of the following is expected to have the highest value  $\left(gm/m^2/yr\right)$  in a grassland ecosystem?
  - A. Gross Production (GP)
  - B. Net Production (NP)
  - C. Secondary Production

D. Teritary Production
Answer: A
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<b>0.</b> About 70% of total global carbon is found in
A. forests
B. grasslands
C. agroecosystems
D. oceans
answer: D

91. Consider the following statements concerning food chains

(i) Removal of 80% tigers from an area resulted in greatly increased

growth of vegetation

(ii) Removal of most of the carnivores resulted in an increased population  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

of deers

(iii) The length of food chains is generally limited to 3 - 4 trophic levels

due to energy loss

(iv) The length of food chains may vary from 2 to 8 trophic levels

Which two of the above statements are correct?

A. (i), (ii)

B. (ii), (iii)

C. (iii), (iv)

D. (i), (iv)

#### **Answer: B**



- **92.** 'All the pyramids, of number, of energy and biomass are upright".
- (i) Grass land (ii) A big tree
- (iii) A sugarcane field (iv) The Arabian Sea

Find the option which correctly tells the ecosystem (s) for which the above statement doesn't hold true.

- A. (ii), (iii) and (iv)
- B. (i) & (ii)
- C. (ii) and (iv)
- D. (iii) & (iv)

#### **Answer: C**



- 93. All the following are limitations of ecological pyramids, except
  - A. doesn't account for the same species in two or more trophic levels

- B. saprophytes are not given any place
- C. not good for a food web
- D. not good if there are more than three trophic levels

#### Answer: D



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- 94. Find the correct statement
  - A. Low temperature and aerobic conditions inhibit decomposition
  - B. Plants capture only 2 10% of the PAR and sustain the entire living
  - C. In aquatic and terrestrial ecosystems the GFC is the major condult
    - for energy flow

than dry weight

world

D. Measurement of biomas in terms of fresh weight is more accurate

#### **Answer: B**



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95. Consider the following statements

In an ecosystem energy

- (i) Movement is unidirectional
- (ii) Is lost irretrievably
- (iii) Movement is non-cyclic
- (iv) Movement is from higher to lower trophic levels

Of these statements

- A. (i), (ii) and (iii) are correct
- B. (i) and (ii) are correct
- C. (i), (iii) and (iv) are correct
- D. (ii), (iii) and (iv) are correct

#### Answer: A

96. Match list-I with list-II and select the correct answer using the codes

given below the lists

List-I List-II

Ecotone 1. Running water Α.

4.

Benthic 2. В. Replacement of one community by another

3. Transitional zone between two communities C. Sere

Zone found at the bottom of the sea

B C D

D. Lotic

B C D

4 2 1

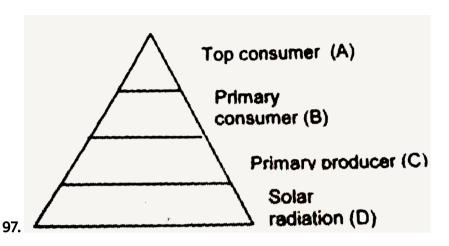
3 2 1

c. A B C D
3 4 1 2

 $\mathsf{D.} \, \, \frac{\mathsf{A}}{\mathsf{4}} \, \, \, \frac{\mathsf{B}}{\mathsf{3}} \, \, \, \frac{\mathsf{C}}{\mathsf{1}} \, \, \, \frac{\mathsf{D}}{\mathsf{2}}$ 

Answer: A





- (A)  $10kcal/m^2/yr$
- (B)  $100kcal/m^2/yr$
- (C)  $1,000kcal/m^2/yr$
- (D) 1, 00,  $000kcal/m^2/yr$

In the above energy pyramid for an ecosystem, the rate of secondary production is

A. uncertain

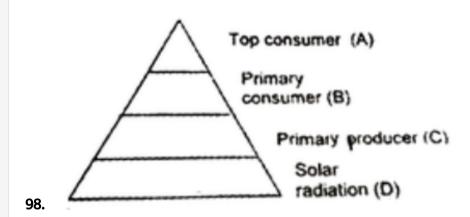
B.  $100kcal/m^2/yr$ 

C.  $10kcal/m^2/yr$ 

D.  $110kcal/m^2/yr$ 

#### **Answer: B**





(A) 10 kcal//m^(2)//yr(B)100 kcal//m^(2)//yr(C)1,000 kcal//m^(2)//yr(D) 1,00,000 kcal//m^(2)//yr`

Refer to the above diagram of energy pyramid. The ecological efficiency at primary consumer level, in comparison to that at secondary consumer level, is

A. same

B. more

C. less

D. can not be ascertained from the data
nswer: A
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<b>9.</b> The stratification pattern in a community is well illustrated by a
A. Grassland community
B. Beach community
C. Desert community
D. Forest community
nswer: D

**100.** In the absence of decomposers, ecosystem functioning is adversely affected due to

- A. Blocking of energy flow
- B. Blocking of mineral cycling
- C. Blocking of solar energy to herbivores
- D. Rate of decomposition of other components will increase

#### **Answer: B**



**101.** The tendency towards increased variety and density of species at community junctions is known as the

- A. Biotic potential
- B. Variability
- C. Vital index

D. Edge	effect

**Answer: D** 



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# 102. Climax communities

- A. Are short lived than pioneer communities
- B. Are less stable than pioneer communication
- C. Have simple food chains than pioneer communities
- D. Have greater niche specialization than pioneer communities

#### **Answer: D**



**103.** Both algae and fungi are not independently capable of initiating seral changes on bare rocks but lichens can do so because they

- A. Adapt suitably to mesic conditions
- B. Are a combination of alge and fungi
- C. Can secrete acids for weathering
- D. Do not require much sunlight

#### **Answer: C**



**104.** Math List-I with List-II and select the correct answer using the codes

given below the lists

List-I

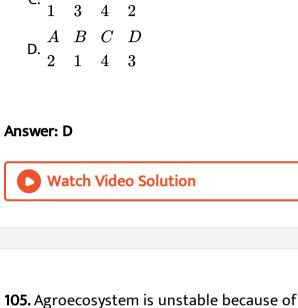
B.

A. The amount of energy accumulation in green plants through the proce

The total organic matter synthesized by the producers in the process

- C. Rate of storage of organic matter in plant tissues in excess of the respi
- C. Rate of storage of organic matter in plant tissues in excess of the resp.

  D. Rate of energy storage at consumer level



 $\begin{array}{cccccc}
A & B & C & D \\
2 & 1 & 3 & 4
\end{array}$ 

A B C D

A B C

D



B. lack of producers

C. both (a) and (b)

D. being dependent on sun-light

**Answer: A** 



# **106.** Primary consumers in detritus food chain are

- A. herbivores
- B. bacteria and fungi
- C. insect larvae, nematodes
- D. all the above

#### **Answer: B**



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# 107. Putrefying organisms are

- A. producer organisms
- B. reducer organisms
- C. consumer organisms

D. parasitic organisms

#### **Answer: B**



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**108.** A pea-cock eats snakes which eat frogs. These eat hoppers which in turn thrive on leaves of the plants. The peacock is

A. primary consumer

B. secondary consumer

C. decomposer

D. apex of the food pyramid

#### **Answer: D**



<b>109.</b> Which of the food chain directly depends on solar radiations?
A. Parasitic
B. Grazing
C. Detritus
D. None of these
Answer: B
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110. Converters or transducer organisms in the food chain are called
A. herbivores
B. carnivores
C. decomposers
D. producers

# Answer: D Watch Video Solution

**111.** In parasitic food chain, the pyramid of number is

- A. linear
- B. upright
- C. inverted
- D. inverted upright

# **Answer: C**



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**112.** Ascending trophic level in grazing food chain pyramid represents

A. gradual decrease in biomass from apex to base

B. gradual decrease in biomass from base to the apex

C. gradual increase of the biomass from producers to the tertiary

consumers

D. no change in biomass

# **Answer: B**



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113. Phytoplankton are dominant in

A. limnetic zone

B. profundal zone

C. littoral zone

D. benthic zone

# Answer: A



**114.** Which ones are reservoirs of Phosphorus and Nitrogen cycles respectively

- A. consumers
- B. atmosphere and bedrock
- C. atmosphere and producers
- D. bedrock and atmosphere

# **Answer: D**



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**115.** An organism contains carbon molecules which have passed through three levels of ecosystem. The organism is

- A. primary consumer
- B. predator

C. producer D. tertiary consumer Answer: D **Watch Video Solution 116.** Identify the following food chain: Dead animal Blow fly maggets  $\rightarrow$ Common Frog  $\rightarrow$  Snake A. Grazing food chain B. Predator food chain C. Parasitic food chain D. Detritus food chain **Answer: D** 

117. Ecological efficiency is

A. Food primary assimilated/Food energy ingested ~ imes~100

B. Gross primary productivity/Incident total solar radiation  $\, imes\,100$ 

C. Volume of  $CO_2$  evolved/volume of  $O_2$  consumed

D. Energy in biomass productionat a trophic level/Energy in biomass production at previous trophical level  $\, imes\,100$ 

# **Answer: D**



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**118.** Breakdown of detritus into smaller particles by earthworm is a process called

A. humification

B. fragmentation

C. mineralisation

D. catabolism

# **Answer: B**



**Watch Video Solution** 

- 119. Decomposers like fungi and bacteria are
- (i) Autotrophs (ii) Heterotrophs

Saprotrophs

(iv) Chemo-autotrophs

Choose the correct answer

- A. (i) and (iii)
- B. (i) and (iv)
- C. (ii) and (iii)
- D. (i) and (ii)

# **Answer: C**



**120.** The process of mineralisation by micro organisms helps in the release of

- A. inorganic nutrients from humus
- B. both organic and inorganic nutrients from detritus
- C. organic nutrients from humus
- D. inorganic nutrients from detritus and formation of humus

# **Answer: A**

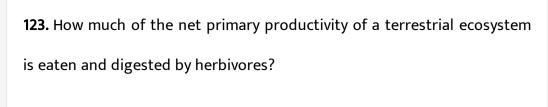


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121. Which of the following is not a producer?

- A. Spirogyra
- B. Agaricus

C. Volvox
D. Nostoc
Answer: B
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<b>122.</b> Among the following, where do you think the process of
decomposition would be the fastest?
A. Tropical rain forest
B. Antarctic
C. Dry arid region
D. Alpine region
Answer: A
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- A.  $1\,\%$
- B. 10~%
- C.  $40\,\%$
- D.  $90\,\%$

# **Answer: B**



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**124.** During the process of ecological succession the changes that take place in communities are

- A. orderly and sequential
- B. random
- C. very quick

D. not influenced by the physical environment

#### Answer: A



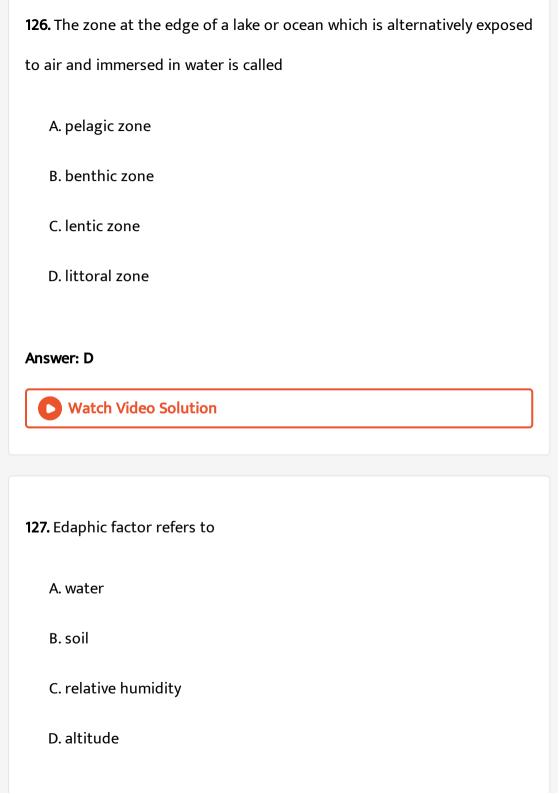
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**125.** Which of the following type of ecosystem is expected in an area where evaporation exceeds precipitation, and mean annual rain-fall is below 100mm?

- A. Grassland
- B. Shrubby forest
- C. Desert
- D. Mangrove

# **Answer: C**





# **Answer: B**



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**128.** Oceans occupy A percent of the earth surface and have a productivity of B percent of the productivity of the whole biosphere

Choose the option which fits best for A & B in order

- A. 50, 50
- B. 70, 10
- C. 70, 30
- D. 30, 70

# **Answer: C**



**129.** Bacterial and fungal enzymes degrade the detrius into simple inorganic substances, this process is called

- A. leaching
- B. catabolism
- C. fragmentation
- D. mineralisation

#### **Answer: B**



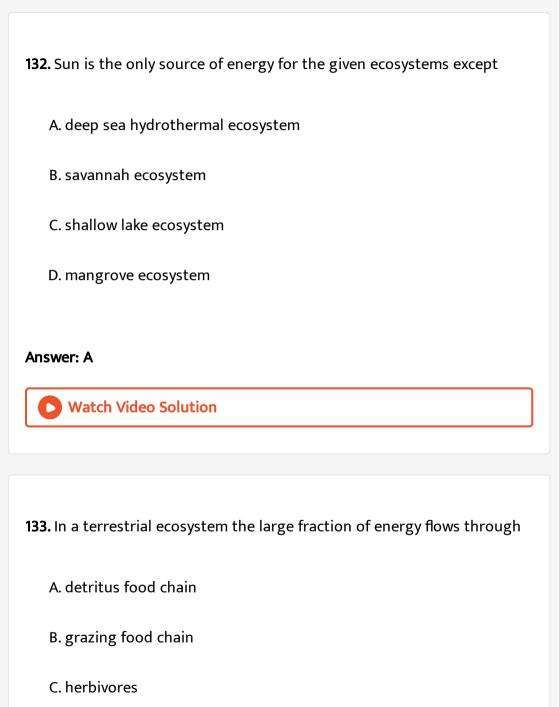
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**130.** Read the following statements about 'Humus', Choose the best option

- (i) Humus is colloidal in nature
- (ii) Easily and Quickly decomposed by microbial action
- (iii) Reservoir of nutrients
- (iv) Dark coloured

B. Only (iii) and (iv) are true C. Only (ii) is false D. All are true **Answer: C Watch Video Solution** 131. All favour the process of decomposition except A. sugar rich detrius B. absence of oxygen C. warm temperature D. no exception, as all given factors favour it Answer: B

A. (i) and (ii) are false



D. carnivores
Answer: A
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<b>134.</b> Choose how many out of the given list are omnivores- Rabbit, Sparrow, Hydra, Crow, Man, Fox, Cockroach, Bobcat
A. Three
B. Six
C. Five

D. Four

**Answer: D** 

**135.** Choose the option which gives the correct order of the organisms in the ascending order of their energy level.

- A. Caterpillar, Pea plant, Sparrow, Eagle
- B. Sparrow, Caterpillar, Pea plant, Eagle
- C. Eagle, Sparrow, Caterpillar, Pea plant
- D. Pea plant, Caterpillar, Sparrow, Eagle

#### Answer: C



- 136. Go through the following Statements
- (i) A trophic level represents one species
- (ii) Pyramid of energy can never be inverted
- (iii) Ecological pyramids hold true only for simply food chains
- (iv) Saprophytes are included in the lower most bar in an energy pyramid
- Choose the best options regarding them

D. All are true **Answer: B** Watch Video Solution 137. All are true for "Climax community" except A. Rapidly keeps on changing to reach equilibrium B. Final community C. End of succession D. Stable Answer: A **Watch Video Solution** 

A. Only (iv) is false

B. (ii) and (iii) are true

C. (i) and (ii) are true

<b>138.</b> Choose the area which will take minimum time for succession.
A. Newly Cooled lava
B. Newly created pond
C. Abandoned farm land
D. Bare rock
Answer: C
Watch Video Solution
<b>139.</b> Lichen is pioneer in succession of
A. hydrosere
B. lithosere
C. psammosere

D. xerosere
Answer: B
Watch Video Solution
<b>140.</b> Which one of the following types of organisms occupy more than
one trophic level in a pond ecosystem?
A. Zooplankton

B. Frog

D. Fish

**Answer: D** 

C. Phytoplankton

141. The correct sequence of plants in a hydrosere is

A. Pistia  $\;
ightarrow\;$  Volvox  $\;
ightarrow\;$  Scirpus  $\;
ightarrow\;$  Hydrilla  $\;
ightarrow\;$  Oak  $\;
ightarrow\;$  Lantana

B. Oak  $\, o\,$  Lantana  $\, o\,$  Volvox  $\, o\,$  Hydrilla  $\, o\,$  Pistia  $\, o\,$  Scirpus

C. Oak ightarrow Lantana ightarrow Scirpus ightarrow Pistia ightarrow Hydrilla ightarrow Valvax

D. Volvox ightarrow Hydrilla ightarrow Pistia ightarrow Scirpus ightarrow Lantana ightarrow Oak

# **Answer: D**



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142. The term Homeostasis in an ecosystem refers to

A. Feed back mechanism

B. Self regulatory mechanism

C. Influence of production

D. State of equilibrium

# Answer: D



143. Maximum energy amongst ecosystems is contributed by

- A. crops
- B. forests
- C. coral
- D. fuel gas

# **Answer: B**



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**144.** The biomass available for consumption by the herbivores and the decomposers is called

A. Gross primary productivity B. Net primary productivity C. Secondary productivity D. Standing crop **Answer: D Watch Video Solution** 145. Which one of the following is one of the characteristics of a biological community? A. Sex-ratio B. Stratification C. Natality D. Mortality **Answer: B** 

**146.** The plants convert light into chemical energy with a photosynthetic efficiency of

A. 
$$3-6\,\%$$

B. 
$$6-20\,\%$$

C. 
$$20-35\,\%$$

D. 
$$35-41\,\%$$

# Answer: A



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147. Primary succession is development of communities on

A. Cleared forest area

B. Previously unoccupied sites

- C. Freshly harvested crop field

  D. Pond filled after a day season
- **Answer: B**



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- **148.** Which one of the following statements for pyramid of energy is incorrect, whereas the remaining three are correct?
  - A. Its base is broad
  - B. It shows energy content of different trophic level organisms
  - C. It is inverted in shape
  - D. It is upright in shape

# **Answer: C**



**149.** Which one of the following animals may occupy more than one trophic levels in the same ecosystem at the same times?

- A. Sparrow
- B. Lion
- C. Goat
- D. Frog

# Answer: A



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150. Both, hydrarch and xerarch successions lead to

- A. medium water conditions
- B. xeric conditions
- C. highly dry conditions
- D. excessive wet conditions

# Answer: A



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151. Identify the possible link "A" in the following food chain

Plant ightarrow insect frog ightarrow "A" ightarrow Eagle

- A. Wolf
- B. Cobra
- C. Parrot
- D. Rabbit

# **Answer: B**



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152. The upright pyramid of number is absent in

A. Forest
B. Lake
C. Grassland
D. Pond
Answer: A
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<b>153.</b> Which one of the following is not a functional unit of an ecosystem
A. Decomposition
B. Productivity
C. Stratification
D. Energy flow
Answer: C
Watch Video Solution

**154.** Which one of the following is not a gaseous biogeochemical cycle in ecosystem?

A. Phosphorus cycle

B. Nitrogen cycle

C. Carbon cycle

D. Sulphur cycle

# **Answer: A**



**Watch Video Solution** 

**155.** The second stage of hydrosere is occupied by plants like

A. Salix

B. Vallisneria

C. Azolla

D. Typha

**Answer: B** 



**Watch Video Solution** 

**156.** The rate of formation of new organic matter by rabbit in a grassland is called

A. net primary productivity

B. Gross primary productivity

C. Net productivity

D. Secondary productivity

# Answer: D



157. Food web' refers to

A. transfer of energy from one trophic level to the next trophic level

B. unidirectional energy flow

C. capturing solar energy by autotrophs

D. connecting feeding pattern in a biotic community

# Answer: D



**158.** The study of interaction between groups of various organisms with their environment is

A. ecology

B. zoogeography

C. synecology

D. system biology

# **Answer: C** Watch Video Solution 159. The pyramid of biomass in sea is A. Upright B. Slanting C. Horizontal D. Inverted **Answer: D** Watch Video Solution 160. Natural reservoir of phosphorus is A. Rock

- B. Fossils
  C. Sea water
- D. Animal bones

# **Answer: A**



**Watch Video Solution** 

**161.** Which one of the following processes during decomposition is correctly described?

- A. Catabolism Last step in the decomposition under fully anaerobic condition
- B. Leaching Water soluble inorganic nutrients rise to the top layers of soil
- C. Fragmentation Carried out by organism such as earthworm

D. Humification - Leads to the accumulation of a dark coloured substance humus which undergoes microbial action at a very fast rate

# Answer: C



**Watch Video Solution** 

# 162. Most animals are tree dwellers in a

- A. thorn woodland
- B. temperate deciduous forest
- C. tropical rain forest
- D. coniferous forest

# **Answer: C**



**163.** Vertical distribution of different species occupying different levels in a biotic community is known as

- A. Stratification
- B. Zonation
- C. Pyramid
- D. Divergence

# **Answer: A**



**164.** The mass of living material at a trophic level at a particular time is called

- A. standing state
- B. Net primary productivity
- C. standing crop

D. gross primary productivity

# **Answer: C**



**Watch Video Solution** 

**165.** In an ecosystem the rate of production of organic matter during photosynthesis is termed as

A. Gross primary productivity

B. secondary productivity

C. Net productivity

D. net primary productivity

# Answer: A



# **166.** Secondary succession takes place on/in

- A. degraded forest
- B. Newly created pond
- C. newly cooled lava
- D. Bare rock

# **Answer: A**



**Watch Video Solution** 

# **167.** During ecological succession

- A. the gradual and predictable change in species composition occurs
  - in a given area
- B. the establishmnt of a new biotic community is very fast in its

primary phase

C. the numbers and types of animals remain constant

D. the changes lead to a community that is in near equilibrium with the environment and is called pioneer community

# **Answer: A**



**Watch Video Solution** 

**168.** Which one of the following is a characteristic feature of cropland ecosystem?

A. Least genetic diversity

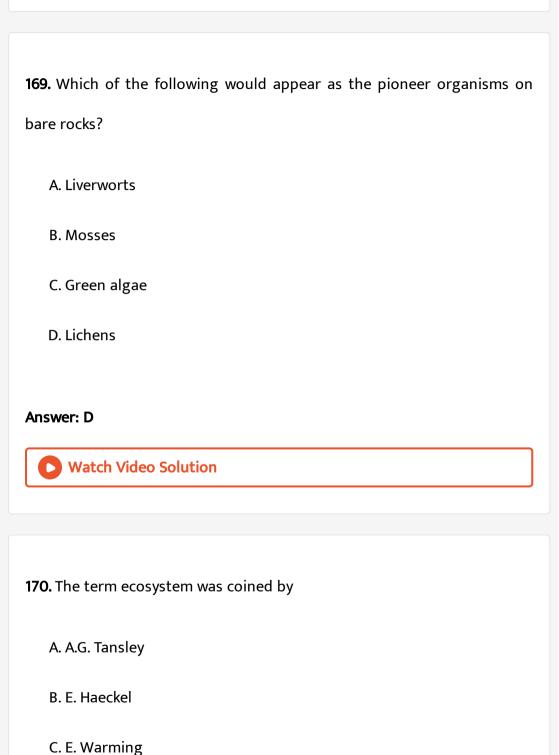
B. Absence of weeds

C. Ecological succession

D. Absence of soil organisms

# Answer: A





Answer: A		
Watch Video Solution		

**171.** Which ecosystem has the maximum biomass?

A. Forest ecosystem

D. F.P. Odum

- B. Grassland ecosystem
- C. Pond ecosystem
- D. Lake ecosystem

Answer: A



**172.** Presence of plants arranged into well-defined vertical layers depending on their height can be seen best in

- A. Tropical Savannah
- B. Tropical rain forest
- C. Grassland
- D. Temperate Forest

#### **Answer: B**



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**173.** What type of ecological pyramid would obtained with the following data?

Secondary consumer: 120 g

Primary consumer : 60 g

Primary producer : 10 g

- A. Upright pyramid of biomass
- B. Upright pyramid of numbers
- C. Pyramid of energy
- D. Inverted pyramid of biomass

# **Answer: D**

