



BIOLOGY

BOOKS - TRUEMAN BIOLOGY

ORGANISMS AND POPULASTIONS

Multiple Choice Questions

1. Two different species cannot live for long duration in the same niche or habitat. This law is

A. Allen's law.

B. Malthus theory

C. Weismann's theory

D. Competition -exclusion principle.

Answer: D



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2. In order for the human population to achieve zero population growth which of the following must occur ?

A. There must be more postreproductive individuals than reproductive individuals.

B. There must be more preproductive than reproductive individuals

C. There must be the same number prereproductive individuals as there are reproductive individuals.

D. all of these

Answer: C



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3. When population reaches carrying capacity :

A. Mortality rate = birth rate

B. Mortality rate $>$ birth rate

C. Mortality $<$ birth rate

D. None of the above

Answer: A



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4. Pedology is a study of

A. rocks

B. soils

C. crop diseases

D. locomotion of animals

Answer: B



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5. Which of the following factors affect a plant not an animal?

A. Temperature

B. Competition

C. Altitude

D. Soil air

Answer: D



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6. Development of soil from parental rock is termed as:

A. humification

B. pedogenesis

C. myrmecophily

D. edaphic climax

Answer: B



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7. The relationship between two species in which one is inhibited or harmed by the presence of the other is :

A. commensalism

B. amensalism

C. mutualism

D. symbiosis

Answer: B



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8. Hirudin is produced by

A. Earthworm

B. Leech

C. Frog

D. Snake

Answer: B



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9. Killing and consuming one's own kind or intraspecific predation is called :

- A. cannibalism
- B. parasitism
- C. autophagy
- D. none of these

Answer: A



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10. Study the following statements about Adamsia and select your answer from the answer codes:

1. It is a parasite
2. It is an example of commensalisms
3. It is called sea anemone
4. It is called hermit crab

Answer codes :

A. A and B are correct

B. B and C are correct

C. C and D are correct

D. A and D are correct

Answer: B



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11. Individuals of the same species inhabiting a particular locality constitute:

A. community

B. flora

C. fauna

D. population

Answer: D



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12. A bird introduced from one country to another became a serious pest due to

A. better adaptation to new area

B. more sexual reproduction

C. better nesting habits

D. absence of natural competition.

Answer: D



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13. Law of limiting factors in photosynthesis was given by:

A. Calvin

B. R.Hip

C. Blackmann

D. Arnon

Answer: C



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14. Interaction between biotic and abiotic components leads to formation of a:

A. society

B. population

C. species

D. community

Answer: D



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15. Obligate parasites are those organisms which :

A. live only on living host

B. live only on dead and decaying organic matter

C. are essentially saprophytes but also can become parasites

D. are essentially parasites but also can become saprophytes.

Answer: A



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16. A bird enters the mouth of a crocodile and feeds on parasitic leeches. The bird gets food and the crocodile gets rid of blood sucking

leeches. Both the partners can also live independently. Such an association is :

- A. Amensalism
- B. mutualism
- C. commensalism
- D. proto cooperation

Answer: D



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17. Nekton are

A. algae

B. floating plants

C. suspended lower plants

D. organisms that swim in water

Answer: D



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18. Two species compete to each other even in presence of large quantity of food. The relationship is :

A. mutualism

B. antagonism

C. isolation

D. Commensalism

Answer: B



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19. Transition zone between vegetational types is

A. ecotone

B. ecotype

C. ecocline

D. ecosystem

Answer: A



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20. An orchid resembles female of an insect so as to get pollinated. The phenomenon is

- A. mimicry
- B. pseudocopulation
- C. pseudopollination
- D. pseudoparthenocarpy

Answer: A



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21. Natality is the characteristic of population which means :

A. the total number of individuals present per unit area at a given time.

B. the increase in number of individuals in a population under given environmental conditions.

C. loss of individuals due to death in a population under given environmental

conditions

D. the movement of individuals into and out of population.

Answer: B



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22. Functional aspect of species with reference to the place of occurrence is called

A. ecology

B. ecological niche

C. species

D. environment

Answer: B



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23. Extremities, tail and ear are relatively shorter in animals living in cooler regions as compared to those inhabiting warmer zones.

This is .

A. Gloger's rule

B. Jordan's rule

C. Allen's rule

D. Bergman's rule

Answer: C



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24. Soil carried by gravity is

A. eluvial

B. alluvial

C. glacial

D. colluvial

Answer: D



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25. Submerged hydrophytes exchange gases through

A. hydrathodes

B. stomata

C. lenticels

D. general surface

Answer: D



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26. Rhizophora is a

A. hydrophyte

B. halophyte

C. mesophyte

D. xerophyte

Answer: B



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27. 10 % law of energy transfer in food chain

was given by:

A. Stanley

B. Tranley

C. Lindeman

D. Weismann

Answer: C



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28. Root cap is deficient in

A. Hydrophytes

B. Halophytes

C. Xerophytes

D. heliophytes

Answer: A



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29. The association between ants and members of family rubiaceae is

A. ornithophily

B. entomophily

C. myrmecophily

D. epiphyte

Answer: C



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30. Eichhornia crassipes is

A. mesophyte

B. xerophyte

C. myrmecophily

D. Hydrophytes

Answer: C



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31. Which of the following is wrong ?

A. Lichen, an association of fungus and alga , is an example of mutualism.

B. Epiphytes , using other plants for support only and not for water or food, show commensalism.

C. Cattle and Egret association is an example of amensalism

D. Mutualism, protocooperation and commensalism are included under positive interactions.

Answer: C



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

A. closely related organisms growing in different niches

B. closely related organisms growing in the same area/niche

C. distantly related organisms growing in the same habitat

D. distantly related organisms growing in different niches.

Answer: B



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33. A successful parasite is the one which

A. grows rapidly

B. causes severe damage

C. sticks to host for long

D. makes minimum demands from its host

Answer: D



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34. In commensalism:

A. both partners are benefitted

B. both partners are harmed

C. weaker is benefitted while stronger is
unharmed

D. None of the above

Answer: C



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35. Allelopathy is due to secretion of

A. pheromone

B. toxin

C. nectar

D. vitamins

Answer: B



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36. A soil transported by water is

A. clay

B. red soil

C. colluvial

D. alluvial

Answer: D



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37. The instrument used to measure wind velocity is

- A. Hydrometer
- B. Anemometer
- C. Photometer
- D. Potometer

Answer: B



38. Effect of increase in both altitude and latitude is similar on vegetation due to that

A. both are higher up in biosphere

B. angle of sunlight is charged

C. temperature shows decrease with both latitude and altitude.

D. both (1) and (2)

Answer: C



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39. Which one is a transported soil

A. Alluvial

B. Colluvial

C. Black soil

D. both (1) and (2)

Answer: D



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40. Which of the following is true for horizon

A

A. soil light in colour than C horizon

B. microbial activity is lesser

C. presence of different stages of
decomposition of organic matter

D. weathered matter has not become true
soil

Answer: C



41. Which organisms would be affected immediately after the withdrawal of CO_2 from the biosphere ?

- A. Producers
- B. Tertiray consumers
- C. Primary consumers
- D. Secondary consumers

Answer: A



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42. Photosynthetic function of the Cactus plant is done by

A. leaf

B. phyllode

C. bracts

D. phylloclade

Answer: D



43. The best way to check the soil erosion is

A. shifting cultivation

B. overgrazing

C. afforestation

D. deforestation

Answer: C



44. Which of the following does not possess stomata ?

A. Hydrophytes

B. Submerged hydrophytes

C. Xerophytes

D. Mesophytes

Answer: B



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45. Animals having a built-in thermostat to maintain constant body temperature are known as

- A. biothermic
- B. poikilothermic
- C. oligothermic
- D. homeothermic

Answer: D



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46. Plants growing in extreme cold soil are:

- A. oxylophytes
- B. sciophytes
- C. psammophytes
- D. psychrophytes

Answer: D



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47. The mesophytes are characterised by

A. sunken stomata

B. absence of cuticle

C. well developed root-shoot systems

D. all of these

Answer: C



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48. Plants growing on rocks are called as

A. psychromphytes

B. lithophytes

C. halophytes

D. sciophytes

Answer: B



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49. Competition of species leads to :

A. mutation

B. parasitism

C. greater number of niches formation

D. symbiosis

Answer: C



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50. The measure of maximum rate of reproduction under optimal condition is known as :

A. ultimate level

B. carrying capacity

C. natality

D. biotic potential

Answer: D



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51. Study of human population growth comes under

A. demography

B. biography

C. dermatology

D. psychology

Answer: A



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52. What is the most important factor for the success of animal population

A. natality

B. Adaptability

C. Unlimited food

D. Interspecific activity

Answer: B



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53. The concept that 'population tends to increase geometrically while food supply increases arithmetically' was put forward by :

A. Stuart hill

B. Adam smith

C. Thomos Malthus

D. Charles derwin

Answer: C



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54. Adaptation to low temperature and freezing in animals occurs due to the production of:-

A. Antifreeze proteins

B. chaperonins

C. proline

D. alanine

Answer: A



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55. Two opposite forces operating in growth and development of every population. One of

them has ability to reproduce at a given rate.

The opposing force is

A. biotic potential

B. migration

C. vital index

D. environmental resistance

Answer: D



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56. Least pore size seen in

A. clayey soil

B. sandy soil

C. loamy soil

D. gravelly soil

Answer: A



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57. Ability to produce maximum offspring is

- A. biotic potential
- B. carrying capacity
- C. environmental resistance
- D. none of these

Answer: A



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58. Ratio between mortality and natality is :

- A. vital index
- B. population density
- C. total count
- D. none of these

Answer: A



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59. In a population curve, the rate of growth becomes steady towards the end of exponential curve due to

- A. reproductive power is reduced
- B. environmental stress
- C. migration
- D. all of these

Answer: B



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60. Submerged hydrophytes have dissected leaves for

- A. decreasing surface area
- B. increasing surface area
- C. reducing effect of water currents
- D. increasing number of stomata

Answer: C



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61. World population day is celebrated on

A. July 11

B. May 31

C. December 1

D. April 7

Answer: A



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62. Plants adapted to grow in shade are called

A. psammophytes

B. sciophytes

C. mesophytes

D. xerophytes

Answer: B



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63. World health day is celebrated on

A. April

B. June 5

C. December 1

D. may 31

Answer: C



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64. Which one is a xerophyte ?

A. Euphorbia

B. Lotus

C. China rose

D. Wolfia

Answer: A



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65. Habitat together with functions of a species constitute is

A. topography

B. trophic level

C. boundry

D. ecological niche

Answer: D



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66. Which mammal excretes solid urine to avoid water loss?

A. Crow

B. Kangaroo rat

C. Camel

D. Squirrel

Answer: B



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67. In India, human population has higher number of younger age group due to

A. long life span and low birth rate

B. short life span and high birth rate

C. short life span and low birth rate

D. birth rate is equal to death rate

Answer: B



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68. Which one of the following is a matching pair of certain organism(s) and the kind of association ?

A. Shark and sucker fish - Commensalism

B. Algae and fungi in lichens -

Commensalism

C. Orchids growing on trees -Parasitism

D. Cuscuta (dodder) growing on other
flowering plants - Epiphytism

Answer: A



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69. Bell-shaped polyonal pyramid indicates

A. High percentage of young individuals

B. Moderate percentage of young individuals

C. Low percentage of young individuals

D. Low percentage of old individuals.

Answer: B



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70. In a lake , phytoplankton grow in abundance in

A. Littoral zone

B. Limnetic zone

C. Profundal zone

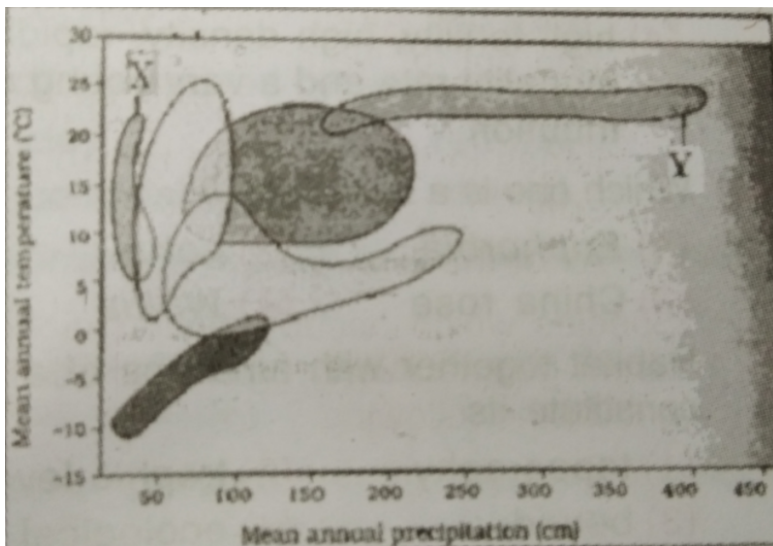
D. Benthic region.

Answer: B



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71. The given figure shows biome distribution with respect to temperature and precipitation. The option which correctly identifies the biomes marked X and Y respectively is.



- A. Coniferous forest, Temperature forest
- B. Tundra , Temperature forest

C. Desert, Tropical forest

D. Grassland , Coniferous forest

Answer: C



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72. Four major abiotic factors are listed. Choose the option which arranges them correctly in increasing order of their ecological relevance.

A. Temperature , water , ligh ,soil

B. Water, Temperature, Soil, Light

C. Light, Soil, Temperautre, Water

D. Soil, Light, Water, Temperature

Answer: D



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73. Read the following given examples

(i) Plant - pollinator mutualism

(ii) African catfish in our rivers for aquaculture

(iii) Fish species with its parasites.

(iv). Nile perch and cichlid fish.

A. (i),(ii)

B. (ii),(iii)

C. (ii) , (iv)

D. (i) ,(iii)

Answer: D



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74. Consider the following statements

A. Stomata are completely absent in hydrophytes.

B. In hydrophytes, vascular bundles always have bundle sheaths.

C. Proline helps in maintaining osmotic and water potential in xerophytes.

Which of the statements given above is/are correct ?

A. A only

B. B only

C. Both A and C

D. C only

Answer: D



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75. If a non poisonous snake of species A, mimics the warning colouration of a poisonous snake of species B, which of the following will hold true ?

A. B will survive better when there is abundance of A

B. B will not affect the survival of A

C. A will survive better in absence of B

D. A will survive better when there is abundance of B

Answer: D



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76. Precipitation in an ecosystem represent

A. Temperature

B. Rainfall

C. Humidity

D. Landmass

Answer: B



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77. Plants growing in nutrient poor soils that are not very conducive to microflora often become

A. insectivorous

B. saprotrophic

C. chemotrophic

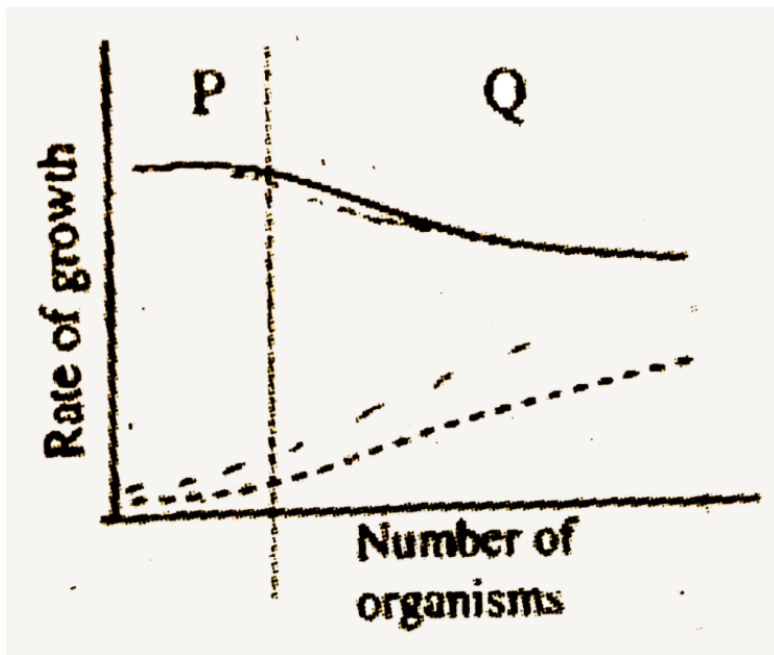
D. xerophytes

Answer: A



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78. The relationship between the two organisms when grown individually (Section P) and grown together (Section Q) is shown in the graph. The relationship is most likely to be



A. commensalism

B. parasitism

C. mutualism

D. protocooperation

Answer: B



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79. Which of the following adaptations is likely to be observed in arid condition ?

(i) vertically hanging leaves

(ii) presence of salt glands

(iii) green fleshy stem

(iv) absence of vascular tissue, scarcely developed vascular tissue.

A. (i) and (ii)

B. (ii) and (iv)

C. (i) and (iii)

D. (ii) and (iii)

Answer: C



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80. In a population showing sigmoid growth form, the population has reached its carrying capacity. What will be the value of dN/dt in this population.

- A. infinity
- B. Equal to carrying capacity
- C. Zero
- D. None of the above

Answer: C



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81. If in a population showing sigmoid growth curve the value of $K-N/K$ is 0.95 then what is true for this population.

A. The carrying capacity has been nearly realized

B. The carrying capacity has not been substantially realized and it can accommodate many more organisms

C. The carrying capacity is only 50 % realized

D. Data is insufficient to comment anything

Answer: B



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82. Carrying capacity of a population is determined by :

A. Population growth rate

B. Birth rate

C. Death rate

D. Limiting resources

Answer: D



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83. What is true regarding epiphytes

A. They are the plants growing on other plants

- B. They use other plants only as support
and not for water or food supply
- C. They are commensals & differ from the
lianas in that they are not rooted in the
soil
- D. All of the above

Answer: D



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84. Species which occupy similar niches in different geographical regions are called which one of the following?

A. Ecotypes

B. Ecological guilds

C. Ecological equivalents

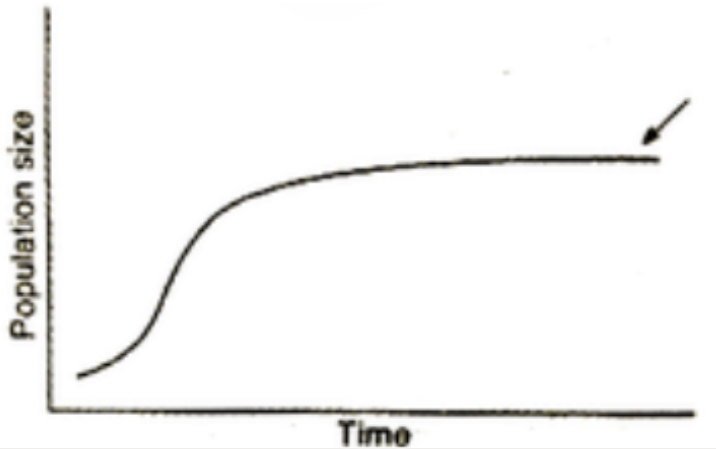
D. Ecological determinants

Answer: C



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85. In the given graph, the arrow indicates specifically the



- A. biotic potential
- B. Density -dependent effect
- C. Density -independent effect
- D. Carrying capacity

Answer: D



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86. In respect of many grasses, the presence of bulliform or motor cells in the upper epidermis of leaves is to :-

A. increase the surface area of the leaf

B. store large amounts of water

C. check transpiration by reducing the surface area of the leaf

D. bear unicellular trichomes

Answer: C



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87. With reference to community ecology, which one of the following describes a cluster of different species of vines climbing into the canopy of a tropical forest ?

A. Ecological equivalents

B. Guilds

C. Edge species

D. Ecotypes

Answer: B



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88. Which one of the following compositions of soil best describes the loam soils ?

A. 85% sand + 15% clay or silt

B. 70% sand + 30% clay or silt

C. 40% sand + 40% silt +20% clay

D. 10% sand +90% silt

Answer: C



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89. Which of the following characters does not characterize a hydrophyte?

A. Abundant air space and air chambers

B. Plentiful xylem and sclerenchyma

C. Leaves having stomata only on upper side or none

D. Poor development of roots

Answer: B



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90. Plants growing near sea shore will usually have xerophytic characters, like thick leaves because

- A. There is plenty of water in the soil
- B. The concentration of salts is too high for the plants to absorb sufficient water from the soil
- C. Light available to the plants is not sufficient.
- D. The soil is muddy

Answer: B



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91. The leaves of a tundra plant resemble the leaves of a plant in a

- A. Tropical rainforest
- B. Temperate deciduous forest
- C. Northern coniferous forest
- D. Desert

Answer: D



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92. Laterite soil is rich in

A. Calcium

B. Magnesium

C. Iron

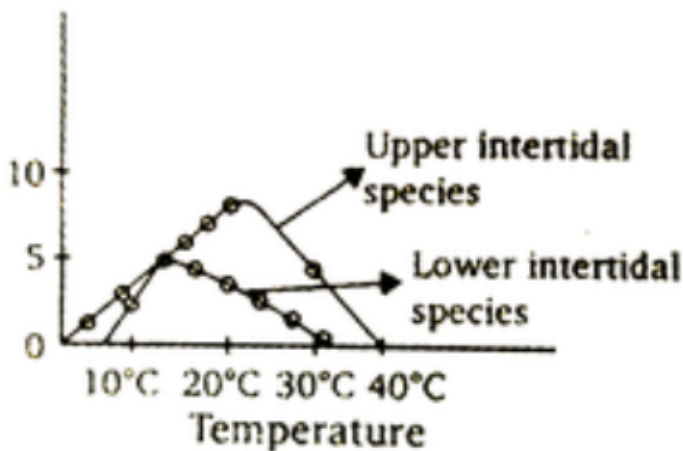
D. Nitrogen

Answer: C



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93. Cirral activity of two barnacles in relation to temperature are given above, which one of the following is the most appropriate explanation of the figure ?



A. Both the barnacles maintain their activity under narrow range of temperatures.

- B. Both the species are more active above $20^{\circ} C$.
- C. There is a rapid depression of activity when temperature increases above $6^{\circ} C$.
- D. Upper intertidal species show greater thermal tolerance than lower intertidal species.

Answer: D



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94. Which of the following forest plants controls the light conditions at the ground?

A. Lianas and climbers

B. Shrubs

C. Tall trees

D. Herbs

Answer: C



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95. What will happen to a well growing herbaceous plant in the forest if it is transplanted outside the forest in a park?

A. It will grow normally

B. It will grow well because it is planted in the same locality.

C. it may not survive because of change in its micro climate

D. It grows very well because the plant gets more sunlight

Answer: C



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96. A population has more young individuals compared to the older individuals. What would be 'the status of the population after some years?

A. it will decline

B. it will stabilise

C. it will increase

D. it will first decline and then stabilize

Answer: C



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97. What parameters are used for tiger census in our country's national parks and sanctuaries?

A. Pug marks only

B. Pug marks and faecal pellets

C. Faecal pellets only

D. Actual head counts

Answer: B



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98. A protozoan reproduces by binary fission.

What will be the number of protozoans in its population after six generations ?

A. 128

B. 24

C. 64

D. 32

Answer: C



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99. Natality refers to

A. Birth rate

B. Death rate

C. Carrying capacity

D. Population

Answer: B



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100. The type of age pyramid in India is

A. steep cylindrical

B. broad based triangular

C. inverted triangular

D. narrow based pyramid

Answer: B



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101. Littoral form of animals are found:

A. in fresh water

B. in sea water near the shore

C. in dep sea

D. at the bottom of the sea

Answer: B



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102. During extreme aridity, desert rat:

- A. stores water
- B. saves water
- C. uses metabolic water
- D. does not use water

Answer: C



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103. Mangrove vegetations is found in

- A. Kullu valley
- B. Western Ghats
- C. Sunderbans
- D. Dehradun valley

Answer: C



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104. Animals with ant- eating habits are called

A. sanguivorous

B. myrmecophagous

C. carnivorous

D. insectivorous

Answer: B



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105. The interdependent evolution of flowering plants and pollinating insects together is known as

- A. mutualism
- B. coevolution
- C. commensalism
- D. cooperation

Answer: C



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106. The plants growing in deserts to tolerate water stress, have

A. no stomata

B. pneumatophores

C. stem modified into leaf-like form

D.

Answer: D



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107. The environmental resistance means

- A. the environmental factors which tend to maintain homoeostasis by regulating emigration.
- B. the factors imposing check on population size
- C. the physiological capacity of a species to resist changes in the environment
- D. the resistance of a species to the environmental factors which impose a

check on population size

Answer: B



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108. The growth of human population shows

- A. sigmoid growth curve
- B. J-shaped growth curve
- C. fluctuating growth curve
- D. None of the above

Answer: A



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109. The J-shaped growth curve lacks

- A. lag phase
- B. exponential phase
- C. stationary phase
- D. none of these

Answer: C



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110. Which of the following is not true ?

A. population tends to grow in geometrical progression

B. J-shaped growth curve has only two phases

C. There are more females than males in India

D. Father is biologically responsible for the sex of the child.

Answer: C



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111. Individuals of one kind (species) occupying a particular geographic area at a given time form

A. community

B. population

C. species

D. biome

Answer: B



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112. Halophytes can grow on physiologically dry soil due to presence of

A. excess salts in water

B. excess salts in plants

C. excess humidity outside

D. thin leaves

Answer: B



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113. Field capacity is

A. higher for sandy soils than clay soils

B. amount of water in soil available to plants

C. same as permanent wilting point

D. amount of water left in soil after drainage

Answer: D



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114. Mangrove of marshy sunderbans is characterised by

A. Pneumatophores and viviparity.

B. Floating roots

C. Oviparity

D. all of these

Answer: A



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115. In submerged plants, the stomata lie on

- A. upper surface
- B. lower surface
- C. not on any surface
- D. equally on both surfaces

Answer: C



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116. Which one of the following is not used for construction of ecological pyramids?

- A. Dry weight
- B. Number of individuals
- C. Rate of energy flow
- D. Fresh weight

Answer: D



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117. Niche overlap indicates

- A. active cooperation between two species
- B. two different parasites on the same host
- C. sharing of one or more resources between the two species
- D. mutualism between two species

Answer: C



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118. Praying mantis is a good example of :

A. camouflage

B. mullerian mimicry

C. warning colouration

D. social insect

Answer: A



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119. Excessive aerenchyma is characteristic feature of

- A. Heliophytes
- B. Xerophytes
- C. Mesophytes
- D. Hydrophytes

Answer: D



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120. Which one is a mangrove plant

A. Rhizophora

B. Acacia

C. Pinus

D. Tectona grandis

Answer: A



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121. Near sea shore many plants show reduced growth due to

A. excessive grazing

B. high speed wind

C. desiccation

D. salt spray

Answer: D



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122. Animals that can tolerate a narrow range of salinity are

- A. stenohaline
- B. euryhaline
- C. anadromous
- D. catadromous

Answer: A



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123. A triangular age pyramid has

A. declining population

B. increasing population

C. stable population

D. fluctuating population

Answer: B



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124. After exponential increase, population becomes stagnant. The growth curve is

A. circular

B. fluctuating

C. J-shaped

D. S-shaped

Answer: D



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125. Geometric representation of age structure is a characteristic of :

A. population

B. landscape

C. J-shaped

D. S-shaped

Answer: A



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126. The population of an insect species shows and explosive increase in numbers during rainy season followed by its disappearance at the end of the season. What does this show ?

A. the food plants mature and die at the end of the rainy season

B. its population growth curve is of J-type

C. the population of its predators increases enormously

D. S-shaped or sigmoid growth of this insect.

Answer: B



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127. Which one of the following pairs of organisms are exotic species introduced in India

A. *Lantana camara*, water hyacinth

B. water hyacinth, prosopis cinereria

C. nile perch, Ficus religiosa

D. Ficus religiosa, Lantana Camara

Answer: A



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128. Mycorrhiza is found in

A. oligotrophic soil

B. eutrophic soil

C. Saline soils

D. none of these

Answer: A



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129. Death rate in the population is represented by

A. Natality

B. Mortality

C. Density

D. Trophic level

Answer: C



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130. Reduction in vascular tissue mechanical tissue and cuticle is characteristic of

A. Epiphytes

B. Hydrophytes

C. Xerophytes

D. Mesophytes

Answer: B



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131. Study the four statement (i-iv) given below and select the two correct ones out of them

(i) A lion eating a deer and a sparrow feeding or grains are ecologically similar in being consumers.

(ii) Predator star fish *Pisaster* helps in maintaining species diversity of some invertebrates

(iii) Predators ultimately lead to the extinction of prey species

(iv) Production of chemicals such as nicotine, strychnine by the plants are metabolic disorders

The two correct statements are

A. (i) and (ii)

B. (ii) and (iii)

C. (iii) and (iv)

D. (i) and (iv)

Answer: A



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132. Movement of fishes from freshwater to marine water for spawning is

A. Catadromous

B. Anadromous

C. Migration

D. None

Answer: C



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133. Which one of the following is most appropriately defined?

A. Host is an organism which provides food to another organism

B. Amensalism is a relationship in which one species is benefited whereas the other is unaffected.

C. Predator is an organism that catches and kills other organism for food

D. Parasite is an organism which always lives inside the body of other organism and may kill it

Answer: C



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134. Rhizosphere microflora exhibits:

A. Parasitism

B. Symbiosis

C. commensalism

D. Space parasitism

Answer: B



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135. Large Woody vines are more commonly found in:

A. Temperature forests

B. Mangroves

C. Tropical rainforests

D. Alpine forests

Answer: C



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136. Considered the following four conditions (A-D) and select the correct pair of them as adaptation to environment in desert lizards.

The conditions

(a) Burrowing in soil to escape high temperature

(b) Losing heat rapidly from the body during high temperature

(c) Bask in sun when temperature is low

(d) Insulating body due to thick fatty dermis

options

A. (iii),(iv)

B. (i),(iii)

C. (ii),(iv)

D. (i),(ii)

Answer: B



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137. Which one of the following is categorised as a parasite in true sense

A. The female Anopheles bites and sucks blood from humans.

B. Human foetus developing inside the uterus draws nourishment from the mother

C. Head louse living on the human scalp as well as laying eggs on human hair

D. The cuckoo (koel) lay its eggs in crow's nest

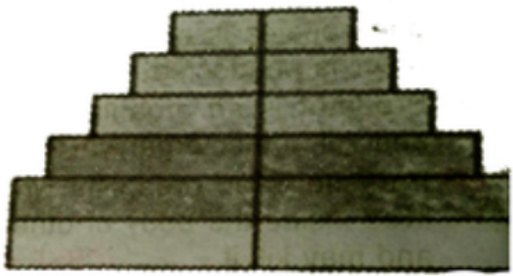
Answer: C



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138. Given is the age pyramid of a population.

Decide which kind of growth status it reflects



- A. Declining
- B. Rapidly expanding
- C. Expanding
- D. Stable

Answer: D



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139. Consider the following statement (a-d)

each with one or two blanks

(a) Brears go into (1) _____ during winter to

(2) _____ cold weather

(b) A conical age pyramid with a broad base

represents (3) _____ human population.

© A wasp pollinating a fig flower is an example

of (4) _____

(d) an area with high levels of species richness is known as (5)_____

which one of the following options, gives the correct fill ups for the respective blank numbers from (1) to (5) in the statements:-

A. (3) -stable (4) -commensalism, ble, (5)

marsh

B. (1) - aestivation, (2) -escape ,(3) -stable,

(4) -mutualism

C. (3)-expanding , (4)-commensalism, (5),

biodiversity park

D. (1)-hibernation, (2) -escape ,(3)-expanding
, (5) hot spot.

Answer: D



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140. Tenebrinoid beetles are famous for

A. Conscious mimicry

B. Aggressive mimicry

C. Mullerian mimicry

D. Bateson mimicry

Answer: A



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141. A few organisms which can tolerate and thrive wide range of temperature are called

A. Steno thermal

B. Eurythermal

C. Homoio thermal

D. Poikilo thermal

Answer: B



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142. Under unfavourable conditions many zooplankton species in lakhs and ponds enter

A. Dormancy

B. Hibernation

C. Diapause

D. Menopause

Answer: C



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143. The number of individuals of the population who left the habitat and gone elsewhere during the time period under consideration is known as :

A. Immigration

B. Emigration

C. migration

D. natality

Answer: B



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144. An interaction between two individuals where one is benefitted while the other is neither benefitted nor harmed is called as

A. Amensalism

B. Commensalism

C. Predation

D. Mutualism

Answer: B



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145. The logistic population growth is expressed by the equation

$$A. dt / dN = Nr \left(\frac{K - N}{K} \right)$$

$$B. dN / dt = rN \left(\frac{K - N}{K} \right)$$

$$C. dN / dt = Rn$$

$$D. dN / dt = rN \left(\frac{N - K}{N} \right)$$

Answer: B



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146. The feature of the xerophytic plant leaves are

(I) Leathery surface

(II) Large surface area

(III) Waxy cuticle

(IV) Sunken stomata on upper epidermis

A. I, II & IV

B. II, & III

C. I, III & IV

D. I & IV

Answer: C



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147. Major ecological community of plants and animals extending over large natural area is known as:

A. bioregion

B. biosphere

C. biota

D. biome

Answer: D



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148. Organisms restricted to narrow range of temperature are

A. Steno thermal

B. Biothermal

C. Eurythermal

D. Geothermal

Answer: A



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149. Adaptive measure to protect against extreme heat by poikilotherms is

A. Hibernation

B. Sweating

C. Aestivation

D. Chilling

Answer: C



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150. A sedentary sea anemone gets attached to the shell lining of hermit crab. The association is

A. commensalism

B. Amensalism

C. Ectoparasitism

D. symbiosis

Answer: A



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151. A biologist studied the population of rats in a barn. He found that the average natality was 250, average mortality 240, immigration 20 and emigration 30. The net increase in populations is :

A. 05

B. zero

C. 10

D. 15

Answer: B



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152. Just as a person moving from Delhi to Shimla to escape the heat for the duration of hot summer, thousands of migratory birds from Siberia and other extremely cold northern regions move to:

A. Keolado National Park

B. Western Ghat

C. Meghalaya

D. Corbett National Park

Answer: A



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153. A location with luxuriant growth of lichens on the trees indicates that the

A. Location is not polluted

B. Trees are very healthy

C. Trees are heavily infested

D. Location is highly polluted

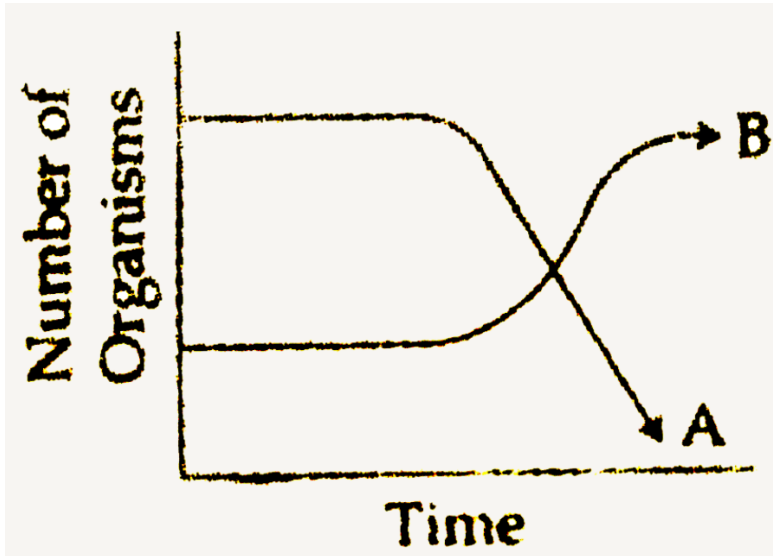
Answer: A



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154. The following graph depicts changes in two populations (A and B) of herbivores in a grassy field. A possible reason for these

changes is that



A. Population B compound more

successfully for food than population A

B. Population A produced more offspring

than population B

C. Population A consumed the members of population B

D. Both plant populations in this habitat decreased.

Answer: A



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155. An association of individuals of different species living in the same habitat and having functional interactions is :

A. Ecological niche

B. Biotic community

C. Ecosystem

D. Population

Answer: B



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156. Most animals that live in deep oceanic waters are:

- A. primary consumers
- B. secondary consumers
- C. tertiary consumers
- D. detritivores

Answer: D



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157. In which of the following interaction both partners are adversely affected ?

A. Competition

B. Predation

C. Parasitism

D. Mutualism

Answer: A



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158. Gause's principle of competitive exclusion states that:

A. Competition for the same resources

excludes species having different food preferences.

B. No two species can occupy the same

niche indefinitely for the same limiting resources.

C. Larger organisms exclude smaller ones

through competition

D. More abundant species will exclude the

less abundant species through

competition.

Answer: B



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159. When does the growth rate of a population following the logistic model equal zero ? The logistic model is given as $dN/dt = rN(1-N/K)$:

- A. When N nears the carrying capacity of the habitat.
- B. When N/K equals zero.
- C. When death rate is greater than birth rate.
- D. When N/K is exactly one

Answer: D



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160. Which of the following is correct for r-selected species ?

- A. Large number of progeny with small size
- B. Large number of progeny with large size
- C. Small number of progeny with small size
- D. Small number of progeny with large size

Answer: A



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161. If '+' sign is assigned to benefited interaction '-' sign to detrimental and '0' sign to neutral interaction, then the population interaction represented by '+-' refers to:

- A. mutualism
- B. Amensalism
- C. commensalism
- D. parasitism

Answer: D



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162. The principle of competitive exclusion was stated by

A. C.Darwin

B. G.F. Gause

C. Mac Arthur

D. Verhulst and Pearl

Answer: B



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163. Asymptote in a logistic growth curve is obtained, when

A. The value of 'r' approaches zero

B. $K = N$

C. $K > N$

D. $K < N$

Answer: B



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164. Plants, which produce characteristic pneumatophores and show vivipary belong to

- A. Mesophytes
- B. Halophytes
- C. Psammophytes
- D. Hydrophytes

Answer: B



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165. Which one fo the following population interactions is widely used in medical science for the production of antibiotics?

- A. Amensalism
- B. parasitism
- C. mutualism
- D. Commensalism

Answer: A



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166. In a growing population of a country ,

A. pre-reproductive individuals are less than the reproductive individuals.

B. reproductive and pre-reproductive individuals are equal in number.

C. reproductive individuals are less than the post-reproductive individuals.

D. pre-reproductive individuals are more than the reproductive individuals.

Answer: D



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167. Which one of the following plants shows a very close relationship with a species of moth, where none of the two can complete its life cycle without the other

A. Viola

B. Banana

C. Yucca

D. Hydrilla

Answer: C



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168. Natality refers to

A. number of individuals entering a habitat

B. number of individuals leaving the
habitat

C. birth rate

D. Death rate

Answer: C



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