QB365 Question Bank Software Study Materials

Zoology - Organisms and Populations 50 Important 1 Marks Questions With Answers (Book Back and Creative)

12th Standard

Biology

Total Marks: 50

Multiple Choice Question

 $50 \times 1 = 50$

- 1) All populations in a given physical area are defined as (a) Biome (b) Ecosystem (c) Territory (d) Biotic factors 2) Organisms which can survive a wide range of temperatuer are called (a) Ectotherms (b) Eurytherms (c) Endotherms (d) Stenotherms 3) The interaction in nature, where one gets benefit on the expense of other is... (c) Amensalism (a) Predation (b) Mutualism (d) Commensalism Predation and parasitism are which type of interactions? (b) (+, O) (c) (--, --) (d) (+, --) Competition between species leads to (a) Extinction (b) Mutation (c) Amensalism (d) Symbiosis
- 7) Match the following and choose the correct combination from the options given below.

(c) Rhinoceros

(d) Whale

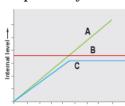
Column I	Column II
A. Mutalism	1. Lion and deer
B. Commensalism	2. Round worm and man
C. Parasitism	3. Birds compete with squirrels for nuts
D. Competition	4. Sea anemone on hermit crab
E. Predation	5. Barnacles attached to Whales.

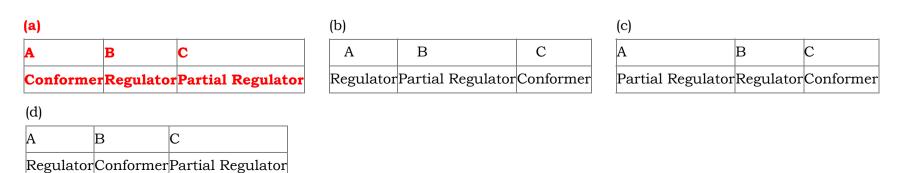
Which of the following is an r-species

(b) Insects

(a) Human

- (a) A-4, B-5, C-2, D-3, E-1 (b) A-3, B-1, C-4, D-2, E-5 (c) A-2, B-3, C-1, D-5, E-4 (d) A-5, B-4, C-2, D-3, E-1
- The figure given below is a diagrammatic representation of response of organisms to abiotic factors. What do A, B and C represent respectively.





The relationship between sucker fish and shark is______

(a)	Competition (b) Commensalism (c) Predation (d) Parasitism.
10)	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
11)	Animals that can move from fresh water to sea called as
	(a) Stenothermal (b) Eurythermal (c) Catadromous (d) Anadromous
12)	Some organisms are able to maintain homeostasis by physical means
	(a) Conform (b) Regulate (c) Migrate (d) Suspend.
13)	What type of human population is represented by the following age pyramid?
	Age Danishan Francisco age Francisco Age Danishan age F
	(a) Vanishing population (b) Stable population (c) Declining population (d) Expanding population
14)	Van't Hoffs rule describes the impact of on the environment.
	(a) Light (b) Temperature (c) Water (d) Soil
15)	"Birds and mammals attain greater body size in colder regions than warmer regions." - Choose the correct option.
	(a) Bergmann's rule (b) Jordon's rule (c) Sewall wright effect (d) Allen's rule
16)	Type of response in hibernation and aestivation.
	(a) Suspend (b) Regulate (c) Migrate (d) Conform
17)	1000 fish in the volume of water in the pond indicates
	(a) Relative abundance (b) Ecological density (c) Crude density (d) Population density
18)	Diapause is a type of response classifiedunder
	(a) Suspend (b) Migrate (c) Conform (d) Regulate
19)	People who have migrated from the planes to an area adjoining Rohtang Pass about six months back
	(a) Have more RBC's and their haemoglobin has a lower binding affinity to \mathbf{O}_2
	(b) Are not physically fit to play games like football
	(c) Suffer from altitude sickness with symptoms like nausea, fatigue, etc.
	(d) Have the usual RBC count but then haemoglobin has very high binding affinity to O_2 .
20)	A biologist studies the population of eats in a barn. He found that the average natality was 250, average mortality is 240, immigration is 20 and emigration to be 30. The in population is
	(a) 10 (b) 15 (c) 05 (d) Zero
21)	Gause's principle of competitive exclusion states that:
	(a) More abundant species will exclude the less abundant species through competition
	(b) Competition for the same resources excludes species having different food preferences
	(c) No two species can occupy the same niche indefinitely for the same limiting resources
	(d) Larger organisms exclude smaller ones through competition
22)	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)

(d)	When dearth rate is greater than birth rate
23)	Identify the proper sequence in increasing order of population
	(a) Species → Population → Community → biome (b) Population → Community → Species → biome
	(c) Biome \rightarrow Species \rightarrow Community \rightarrow Population (d) Community \rightarrow Population \rightarrow Biome \rightarrow Species
24)	Pick out the eurythermal organism
	(a) Fish (b) Frog (c) Tiger (d) Lizards
25)	Locomotory speed of an organism changes due to light. This phenomenon is referred as
	(a) Photonasty (b) Photokinesis (c) Phototropism (d) Phototaxis
26)	Identify the incorrect statement
	(a) Water is a universal solvent (b) Water has less surface tension (c) Water is heavier than air
	(d) When freezes water contracts
27)	Assertion (A): Diapause is carried out to overcome abiotic stress.
	Reason (R): Animals become inactive during winter.
	 (a) Both A and R are correct R explain A (b) A is correct R is incorrect (c) R does not explain A (d) Both A and R are incorrect
28)	
	Assertion (A): Movement of organism from one place to another and back is called migration. Reason (R): Eel is an example for anadromous migration.
	(a) Both A and R are correct R explain A (b) A is correct R is incorrect (c) R does not explain A
	(d) Both A and R are incorrect
29)	Which is not a feature of Tundra?
	(a) Large population oscillation (b) Short season of growth and reproduction (c) Low biotic diversity
	(d) Extremely hot climate
30)	As altitude increases
	(a) O ₂ density increases (b) Precipitation decreases (c) Temperature increases (d) Snowing decreases
31)	Genetic engineering has been successfully used for producing
	(a) Transgenic mice for testing safety of polio vaccine before used in humans.
	(b) Transgenic models for studying new treatments for certain cardiac diseases
	(c) Transgenic cow Rosie which produces high fat milk for making ghee
32)	(d) Animals like bulls for farm work as they have super power.
32)	There is a restriction endonuclease called EcoRI. What does 'co' part in it stand for?
	(a) Coelem (b) Coenzyme (c) Coli (d) Colon
33)	For transformation, microparticles coated with DNA to be bombarded with gene gun are made up of
	(a) silver or platinum (b) platinum or zinc (c) silicon or platinum (d) Gold or tungsten
34)	Which body of the government of India regulates GM research and safety of introducing GM organism for public services?
	(a) Bio-safety committee (b) Indian council of agricultural research (c) Genetic egineering approval committee
0.5	(d) Research committee on Genetic manipulation
35)	Animals that can tolerate wide range of salinity are called

(a) When N/K is exactly one (b) When N nears the carrying capacity of the habitat (c) When N/K equals zero

(a)	Stenohaline (b) Euryhaline (c) Anadromous (d) Catadromous
36)	Carrying capacity of environment is determined by
	(a) Birth rate (b) Death rate (c) Limiting resources (d) Population growth
37)	Antelopes are
	(a) Herbivorous (b) Fungivorous (c) carnivorous (d) omnivorous
38)	Select the statement which explains best parasitism:
	(a) One organism is benefited. (b) Both the organisms are benefited.
	(c) One organism is benefited, the other is not affected. (d) One organism is benefited the other is affected
39)	Which is the stenotherms from the following?
	(a) Dog (b) Tiger (c) Human (d) Lizard
40)	Large woody vines are more commonly found in:
	(a) Temperate forest (b) Mangroves (c) Tropical rainforests (d) Alpine forests
41)	Animals that can tolerate a narrow range of salinity are
	(a) Stenohaline (b) Euryhaline (c) Anadromous (d) Catadromous
42)	Soil particles determines its
	(a) Texture (b) Field capacity (c) Water holding capacity (d) Soil flora
43)	Soil best suited for plant growth is
	(a) Clay (b) Loam (c) Sandy (d) Gravel
44)	Which is the correct order of ecological hierarchy?
	(a) Biome \rightarrow Populations \rightarrow Community \rightarrow Organism (b) Organism \rightarrow Biome \rightarrow Population \rightarrow Community
45)	(c) Population $ o$ Community $ o$ Biome $ o$ Organism (d) Organism $ o$ Population $ o$ Community $ o$ Biome
10)	Find odd one w.r.t. population
46)	(a) Natality (b) Death rate (c) Age pyramid (d) Births
10,	Select the incorrect match w.r.t. interspecific interaction
47)	(a) + + Commensalism (b) + + Mutualism (c) + - Parasitism (d) + - Predation
.,,	Altitude sickness is managed by the body by
	(a) Decreasing RBC production (b) Increasing fat oxidation (c) Decreasing binding capacity of hemoglobin (d) Decreasing breathing rate
48)	The study dealing with animal behaviour is called as
	(a) Euthenics (b) Ethology (c) Ecology (d) Pedogenesis
49)	The soil zone is known as
	(a) Pedosphere (b) Atmosphere (c) Hydrosphere (d) Stratosphere
50)	Which one of the following is most appropriately defined?
	(a) (a) Host is an organism which provides food to another organism.
	(b) (b) Amensalism is a relationship in which one species is benefited whereas the other is unaffected.
	(c) (c) Predator is an organism that catches and kills other organism for food.
	(d) (d) Parasite is an organism which always lives inside the body of other organism and may kill it.