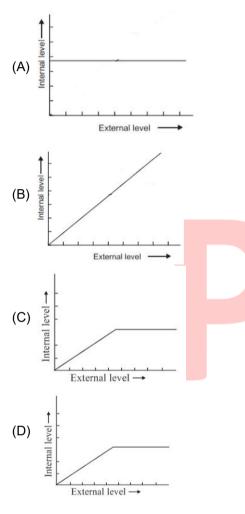
SUBJECT :- BIOLOGY CLASS :- 12 th		R WISE TEST- 11 DATE NAME	
1.	Ecology is basically concerned with the following four levels of biological organization. (a) Communities (b) Organisms (c) Populations (d) Ecosystem (A) $b \rightarrow c \rightarrow d \rightarrow a$ (B) $b \rightarrow c \rightarrow a \rightarrow d$ (C) $a \rightarrow d \rightarrow b \rightarrow c$ (D) $d \rightarrow a \rightarrow c \rightarrow b$	9.	 Which one of the following statements cannot be connected to Predation? (A) It might lead to extinction of a species (B) Both the interacting species are negatively impacted (C) It is necessitated by nature to maintain the ecological balance (D) It is here in maintain the species in the species in maintain the species in the species in the spe
2.	The word ecology, as given by a German biologist Ernst Haeckel in 1869, has its origin from the Greek word oikos meaning and logos meaning to study. (A) Home (B) Habitat (C) Niche (D) Environment	10.	 (D) It helps in maintaining species diversity in a community Evolutionary biologists believe that the success of mammals is largely due to their ability of (A) Migration (B) Thermoregulation and osmoregulation (C) Hibernation (D) Confirmation
3.	On a global scale, all the Earth terrestrial biomes and aquatic ecosystems constitute the (A) Ecosystems (B) Biome (C) Landscape (D) Biosphere	11.	 All birds and mammals are able to (A) Keep their body temperature constant (B) Decrease their body temperature when the surrounding temperature becomes low (C) Increase their body temperature when
4.	Organisms that can tolerate and thrive in a wide range of temperature are called (A) Stenothermal (B) Eurythermal (C) Homeothermal (D) Poikilothermal		the surrounding temperature becomes high (D) Increase their body temperature when the surrounding temperature is low
5.	More than 70% of the world's freshwater is contained in (A) Polar ice (B) Glaciers and mountains (C) Antarctica	12.	Mammals of colder areas generally have shorter extremities in comparison to the tropical mammals. This statement comes under the (A) Jordan's rule (C) Darwin's rule (D) Allen's rule
6.	 (D) Greenland All of the following are characteristic features of tropical rainforest, except (A) Stratification (B) Presence of lianas and epiphytes (C) Soil is nutrient-rich 	13.	The migratory birds that are seen in Keoladeo National Park during winter come from (A) Extremely hot southern regions (B) Extremely cold northern regions (C) Gulf regions (D) Extremely hot northern regions
7.	(D) Rich in biodiversity Geographical distribution of different species to a large extent is determined by (A) Their body temperature (B) Their food habits	14.	In bacteria, fungi, and algae, thick walled spores are formed to overcome unfavorable conditions. Such response to abiotic factors is categorized into (A) Regulation (B) Suspension (C) Conformation (D) Migration
8.	 (C) Their level of thermal tolerance (D) The color of their body Find the correct match with respect to salinity (ppt). (A) > 6 ppt in inland water (B) 40-45 ppt in sea water (C) <5 ppt in inland water 	15.	A physiological adaptation of people living at higher altitudes is/are (a) High respiratory rate (b) Increase in binding capacity of hemoglobin with oxygen (c) Increase in RBC production (A) Only (a) (B) Only (a) and (c) (C) Only (a) and (b) (D) All (a) (b) and (c)
	(D) <100 ppt in hypersaline lagoon	\perp	(D) All (a), (b), and (c)

- 16. Fishes of the Antarctic water prevent their body fluids from freezing by(A) A thick blubber layer(B) The presence of oil in extracellular space
 - (C) The presence of antifreeze protein
 - (D) Migration to deeper water
- **17.** In aquatic animals, the osmotic concentration of the body fluids changes with that of the ambient water. Such organismic response is shown by which of the following graphs?



- 18. A behavioral strategy of adaption echolocation is found in
 (A) Bats
 (B) Monarch butterfly
 - (C) Praying mantis
 - (D) Arctic tern
- 19. Read the following statements:
 A. Desert lizards lack physiological ability that mammals have to deal with high temperature of their habitat.
 B. Kangaroo rat has the ability to concentrate its urine.
 (A) Only (A) is correct
 - (A) Only (A) is correct.
 - (B) Only (B) is correct.
 - (C) Both (A) and (B) are correct.
 - (D) Both (A) and (B) are incorrect.
- 20. The gradual physiological adjustment to changing environmental slowlv new conditions is known as (A) Acclimatization (B) Insularization (C) Adaptation (D) Habituation 21. Many xerophytes may accumulate an amino acid in response to stress. (A) Glycine (B) Proline (C) Glutamic acid (D) Alanine 22. Allen's rule is related to (A) Hibernation (B) Aestivation (C) Evolution (D) Emigration A group of individuals of the same species 23. inhabiting a given area is called (A) Ecosystem (B) Biome (C) Biosphere (D) Population Which of the following statements is 24. incorrect with respect to population? (A) A population at any given time is composed of individuals of same age (B) A population has birth rates and death notes (C) One of the attributes or characteristics of a population is sex ratio (D) The size of the population tells us a lot about its status in the habitat Which 25. of the following processes contributes maximally to population growth in newly colonized habitat? (A) Natality (B) Emigration (C) Immigration (D) Mortality 26. An age pyramid for human population is depicted. Post-reproductive Reproductive Pre-reproductive Which of the following growth patterns is shown by the depicted age pyramid? (A) Expanding (B) Stable (C) Declining (D) Unstable 27. The increased number and density of species in the transition zone of two different habitats is called. (A) Ecotone (B) Crowding effect
 - (C) Edge effect
 - (D) Abundance

- 28. Which statement stands true for an "urn"-35. shaped pyramid? (A) A low percentage of pre-reproductive individuals (B) Negative growth in population (C) Low birth rate (D) All of the above In the equation $\frac{dN}{dT}$ = rN, find the correct 29. 36. match with respect to the magnitude of rvalue. (A) Flour beetle: 0.12 (B) Human population (1981): 0.205 (C) Norway rat: 0.15 37. (D) Human population (2001): 0.0170 30. In a population with almost equal number of pre- reproductive and post-reproductive individuals and comparatively fewer reproductive individuals, the age pyramid will be (A) Triangular (B) Bell-shaped (C) Urn-shaped (D) Of no definite shape 31. Response of an organism to a range of a single environmental factor shows 38. а curve. (A) Bell-shaped (B) J-shaped (C) S-shaped (D) Hyperbola 32. The influence of environmental resistance over the biotic potential is denoted by 39. (B) $\begin{bmatrix} K - N \\ K \end{bmatrix}$ (A) (b-d) (C) N – K (D) K-N 33. Populations evolve to maximize their reproductive fitness, also called Darwinian fitness. Choose the incorrect option for this. 40. (A) Bread once- Salmon fish (B)Breed many times - Birds (C) Large progeny – Pelagic fishes (D) Small progeny - Oysters 34. Identify the following statements as true (T) or false (F). A. Tiger census in our national parks is often based on pug marks and fecal pellets. B. Size of population for any species is not a static parameter. C. Percent cover or biomass cannot be a meaningful measure to known population density. D. Population density is necessarily measured in numbers. (A) A-T; B-T; C-F; D-F (B) A-F; B-F; C-T; D-T (C) A-T; B-F; C-T; D-F (D) A-F; B-T; C-T; D-T
 - possess are (A) Age distribution (B) Sex ratio (C) Birth rate and death rate (D) Life span (SECTION-B) The size of the population is represented bv its (A) Biotic potential (B) Mortality (C) Natality (D) Density Go through the population growth formula: $\frac{\mathrm{dN}}{\mathrm{dT}} = \mathrm{rN}$ Select the correct option. (A) As population gets larger, its rate of growth increases (B) It represents growth as a continuous process (C) r is constant, and N is variable (D) All of the above At asymptote stage, the population is (A) Stabilized (B) Increasing (C) Decreasing (D) Extinct Biotic potential is counteracted by (A) Competition (B) Predation (C) Limited food supply (D) All of the above Choose incorrect match from given population growth. ²opulation density (N) B Time $(t) \longrightarrow$ (A) A: $\frac{dN}{dT} = rN\left(\frac{K-N}{K}\right)$ (B) B: Carrying capacity (C) C: More realistic curve (D) C: $\frac{dN}{dT} = rN$ PG #3

Attributes that individual but not population

41. Identify the correct combination.

Species A	Species B	Interaction
(A) Clownfish	Sea	Protocooperation
	anemone	
(B) Sea anemone	Hermit crab	Ammensalism
(C) Balanus	Chthamalu	Competition
(D) Black walnut	Alpha alpha	Commensalism

- **42.** Interaction between which of the following pairs of organisms is referred to as commensalism?
 - (A) Algae and fungi
 - (B) Lice and human
 - (C) Snake and frog
 - (D) Sea anemone and clownfish
- **43.** Select the incorrectly matched pair.
 - (A) Fig and fig wasp Mutualism
 - (B) Cuscuta and hedge plant — Commensalism
 - (C) Cuckoo and crown
 - Brood parasitism
 - (D) Goats and Abingdon tortoise on Galapagos Islands Competition
- **44.** Competitive exclusion principle was put forward by G. F. Gause on the basis of experiments on
 - (A) Chlorella (B) Paramecium
 - (C) Microcystis (D) Cuckoo birds
- **45.** Which among the following is best exemplified for competitive coexistence? (A) Goats and Abingdon tortoise
 - (B) Balanus and Chthamalus
 - (C) Fourteen species of finches in Galapagos island
 - (D) Orchids and bees

- 46. Read the following statements, and select the correct option. According to Gause's competitive Α. exclusion principle, two closely related species competing for the same resources can coexist indefinitely. B. Majority of parasites reduce the survival growth and reproduction of the host and reduce its population density. (A) Only (A) is correct. (B) Only (B) is correct. (C) Both (A) and (B) are correct. (D) Both (A) and (B) are incorrect. 47. The close association of cattle egret and grazing cattle is an example of (A) Amensalism (B) Commensalism (C) Parasitism (D) Predation 48. Select the one which is different from others while showing mutualism. (A) Lichen (B) Mycorrhizae (C) Cyanobacteria and coralloid root (D) Crocodile and crocodile bird 49. Resource partitioning includes (A) Temporal partitioning (different times for feeding) (B) Avoidance of competition (C) Morphological differentiation (using a resource in different ways) (D) All of the above 50. An example of species-specific
 - coevolution is
 (A) Yucca plant and the single species of moth that pollinates them
 (B) Fig species and its pollinating species of wasps
 (C) Both (A) and (B)
 (D) Hydrilla and its pollinating agent
 - (D) Hydrilla and its pollinating agent