### **SECTION C: CHAPTER – END TEST**

<b>1.</b> A <sub>0</sub> layer is rich in	(2007)
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(A)Litter

(B)Minerals

(D)Humus

(C)Leachates

2. Large sized rooted plants found in shallow waters are called (2007)

(A) Macrophytes

(B)Microphytes

(C)Phagophytes

(D)Saprophytes

**3.** Population of an insect species increase explosively during rainy season and then disappears at the end of the season. It shows (2007)

(A)Food plants mature and die at the end of rainy season

(B)Population of predators increases enormously

(C)Population growth curve is J-shaped

(D)Population growth curve is S-shaped

4. Study of inter-relationships between a species/individuals and its environment in all stages of its life cycle is (2008)

(A)Synecology

(B)Forest Ecology

(C)Autecology

(D)Ecology

5. Study of inter-relationships between an entire community and its environment is (2008)

(A)Autecology

(B)Resource Ecology

(C)Species Ecology

(D)Synecology

6. The sum total of the populations of the same kind of organisms constitute

(A)Colony

(B)Genus

(C)Community

(D)Species

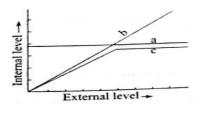
7. Quercus species are dominant compon	ent of <b>(2008)</b>
(A)Temperature forest	(B)Tropical rain forest
(C)Alpine forest	(D) <mark>Scrub forest</mark>
<b>8.</b> Most populous country of the world is	(2008)
(A) <mark>Bangladesh</mark>	(B)Indonesia
(C)India	(D)China
9. Root of higher plants develop mycorrh	iza for obtaining ( <b>2008)</b>
(A)Sulphates	(B)Nitrogen
(C)Phosphates	(D) <mark>All the above</mark>
<b>10.</b> Small fish sticks to bottom of shark to	obtain food crumbs. (2008)
(A)Antibiosis	(B)Predation
(C) <mark>Commensalism</mark>	(D)Parasitism
<b>11.</b> An association of individuals of different having functional interactions is	ent species living in the same habitat and (2009)
(A)Population	(B)Ecological niche
(C) <mark>Biotic community</mark>	(D)Ecosystem
<b>12.</b> Reduction in vascular tissue, mechani <b>(2009)</b>	cal tissue and cuticle are characteristic of
(A)Mesophytes	(B) <mark>Hydrophytes</mark>
(C)Xerophytes	(D)Epiphytes
13. Halophytes occur in (2009)	
(A)Salty soil	(B) <mark>Desert</mark>
(C)Near river	(D)Rainy water

14.	A mutually beneficial association necessa (2009)	rry for survival of both partners is
	(A) <mark>Mutualism/Symbiosis</mark>	(B)Commensalism
	(C)Amensalism	(D)Both A and B
15.	A teacher explaining physical contact lead between two thalloid forms was telling at	
	(A)Mycorrhizal association	
	(B)Establishment of heterothallism	
	(C)Operation of heterothallism	
	(D)Advent of lichen formation	
16.	Soil transported by air is (2010)	
	(A)Alluvial	(B)Colluvial
	(C)Glacial	(D) <mark>Eolian</mark>
17.	Soil best suited for plant growth is <b>(2010</b>	))
	(A)Clay	(B) <mark>Loam</mark>
	(C)Sandy	(D)Eolian
18.	One of the following is not true for hydro	phytes <b>(2010)</b>
	(A)Vessels are usually absent	
	(B)Cuticle is poorly developed	
	(C) <mark>Tracheids are absent</mark>	
	(D)Air chambers are well developed	
19.	Microscopic aquatic organisms lacking lo current are (2010)	comotory ability and drifting with water
	(A)Pleuston	(B)Nekton
	(C) <mark>Plankton</mark>	(D)Seston

20. Which of the following is a xerophytic plant in which the stem is modified into a flat green had succulent structure? (2010)

(A)Casuarina	(B) <mark>Opuntia</mark>
(C)Hydrilla	(D)Acacia

**21.** The figure given below is a diagrammatic representation of response of organisms to abiotic factors. What do (a), (b). (c) represent respectively? **(2010)** 



(A)a—Regulator, b—Partial regulator, c—Conformer

(B)a—Partial regulator, b—Regulator, c—Conformer

(C)a—Regulator, b—Conformer, c—Partial regulator

- (D)a—Conformer, b—Regulator, c—Partial regulator
- 22. Bell-shaped polygonal pyramid indicates (2010)

(A)High percentage of old individuals

- (B)Low percentage of young individuals
- (C)Moderate percentage of young individuals
- (D)Low percentage of old individuals
- **23.** Rhizophere microflora exhibits (2010)

(A)<mark>Symbiosis</mark>

(B)Invertebrates

(C)Insectivorous plants

(D)Saprophytic plants

**24.** Biotrophic nutrition is shown by

(A)Humans

(C)Insectivorous plants

(B)Invertebrates

(D)Saprophytic plants

**25.** Which is appropriately defined? **(2010)** 

(A)Host is an organ ism which provides food to another organism

(B)Amensalism is relationship in which one species is benefitted while the other is unaffected

(C)Predator is an organism that catches and kills other organisms for food

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

**26.** Study statements (a—d) and select the correct ones.

(2010)

(a)A lion eating a deer and a sparrow feeding on grain are consumers.

(b)Predator star fish, *Piaster*, helps in maintaining species diversity of some invertebrates.

(c)Predators ultimately lead to extinction of prey species.

(d)Plant chemicals like nicotine and strychnine are

(A)c and d	(B)a and d
(C) <mark>a and b</mark>	(D)b and c
<b>27.</b> Which of the following is/are an	n angiospermic hydrophyte? (2010)
(A)Hydrilla	(B)Vallisneria
(C)Zizyphus	(D)Both A and B
<b>28.</b> Large woody vines are more co	mmonly found in (2011)
(A)Tropical rain forests	(B)Alpine forests
(C)Temperate forests	(D)Mangroves
<b>29.</b> Most economical and effective a (2011)	method of control of soil pH is applicable of

(A) <mark>CaCO3</mark>	(B)Ca(OH)₃
(C)Cacl <sub>3</sub>	(D)Ca(NO <sub>3</sub> ) <sub>2</sub>

<b>30.</b> Select the correct pair of adaptic	on in desert lizards. (2011)
a.Burrowing in soil to escape hig	h temperature
b.Losing heat rapidly at high ten	perature
c.Bask in the sun when temperat	cure is low
d.Insulating body with thick fatt	y dermis
(A)b, d	(B)a, b
(C)c, d	(D) <mark>a, c</mark>
<b>31.</b> Root cap is absent in (20	11)
(A)Xerophytes	(B)Mesophytes
(C) <mark>Hydrophytes</mark>	(D)Halophytes
<b>32.</b> Most important for determining	population growth is (2011)
(A)Population size	
(B)Natality	
(C)Vital index	~
(D)Population growth curves	
<b>33.</b> Number of births per year per 1	000 individuals is (2011)
(A)Demography	(B)Natality
(C)Mortality	(D)Density
<b>34.</b> Which type of human population (2011)	n is represented by this age pyramid?
(A)Declining population	

(B)Expanding population

(C)Vanishing population	< a>					
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(D)Stable population

- **35.** Which one is parasite in true sense? (2011)
  - (A)Head Louse living on human scalp as well as laying eggs on human hair.

(B)Cuckoo laying eggs in Crow's nest.

(C)Female *Anopheles* biting and sucking blood from humans.

- (D)Human foetus inside uterus and drawing nourishment from mother.
- **36.** Some organisms are tolerant to a narrow range of salinity and are termed as (2012)

(A)Euryhaline	(B) <mark>Stenohaline</mark>	
(C)Neither (a) or (b)	(D)Saline	

**37.** Full name of professor Misra who is known as the Father of Ecology in India is **(2013)** 

(A)Ramesh Misra	(B)Ramavtar Misra
(C)Ramekant Misra	(D) <mark>Ramdeo Misra</mark>
<b>38.</b> The term niche of a species refers to	(2013)
(A)Specific place where an organism live	S
(B)Competitive power of an organism	
(C)Specific function of an organism	
(D)Specific and habitual function	
<b>39.</b> Main characteristic of halophytes is	(2013)
(A)Sunken stomata	(B) <mark>Vivipary</mark>
(C)Heterophylly	(D)All of the above

40	. Population growth curve is sigmoid, if the	e growth pattern is	(2013)
	(A) <mark>Logistic</mark>	(B)Geometric	
	(C)Exponential	(D)Accretina	ıry
41	. Which of the following is an intraspecific	interaction?	(2013)
	(A)Amensalism	(B)Commens	salism
(C)	Symbiosis	(D) <mark>Cannibalism</mark>	
42	. Orchid growing on other plants as (2013	)	
	(A)Parasite	(B)Symbiont	
	(C)Commensal	<b>(D)<mark>Epiphyte</mark></b>	
43	. Benthic organism are affected the most b	y <b>(2013)</b>	
	(A)Light reaching the forest floor	0	
	(B)Surface turbulence of water	$\sim$	
	(C) <mark>Sediment characteristics of aquatic ecc</mark>	osystems	
	(D)Water-holding capacity of soil		
44	A biologist studied the population of rats natality was 250, average mortality 240, i increase in population is (2013)		_
	(A)05	(B) <mark>Zero</mark>	
	(C)10	(D)15	
45	. The age pyramid with broad base indicat	es (2013	3)
	(A)High percentage of old individuals		
	(B)Low percentage of young individuals		

(D)High percentage of young individuals

(C)A stable population

46.	A sedentary sea anemone gets attached to	o the shell lining	(2013)
	(A)Commensalism	(B)Amensalism	
	(C)Ectoparasitism	<b>(D)Symbiosis</b>	
47.	Which one of the following is not a parasi	tic adaptation?	(2013)
	(A)Development of adhesive organs		
	(B)Loss of digestive organs		$\cdot$
	(C)Loss of reproductive capacity		
	(D)Loss of unnecessary sense organs	•	
48.	Most productive biome of India is (2014		
	(A)Desert	(B)Deciduous forest	
	(C) <mark>Tropical Rain Forest</mark>	(D)Temperat	ure forest
49.	Just as a person moving from Delhi to Shi	mla to escape the hea	t for the durati

49. 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 (2014)

(A) Keolado National Park

(B)Western Ghat

(C)Meghalaya

(D)Corbett National Park

**50.** Which of the following is correct? **(2014)** 

(A) Population change = (Birth + immigration) – (death + emigration)

(B)Population change = (Birth + immigration) + (death + emigration)

(C)Population change = (Birth + emigration) + (death – immigration)

(D)Population change = (Birth – immigration) – (death + emigration)

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**51.** Age distribution is the characteristic of (2014) (A)Organism (B) Population (C)Community (D)Ecosystem **52.** Which of the following is epiphytic plant species? (2014)(A)Visumi (B)Cuscuta (C)Vanda (D)Loranthus **53.** One species is benefitted and other is neutral. This association is called (2014) (B)Commensalism (A)Mutualism (C)Amensalism (D)Parasitism **54.** Which of the following is an example of mutualism? (A)Abingdon tortoise in Galapagos island (2014) (B)Yeast & roots of plants (C) Fungi & cyanobacteria (D)Algac & cyanobacteria **55.** Which of the following shows mutualism?(2014) (A) Fig and wasp

(B)Orchid growing on mango branch

(C)Clown fish and Sea Anemonc

(D)Barnacle growing on back of whale

**56.** "Two species competing for the same resources cannot co-exist indefinitely". This statement is **(2014)** 

(A)Connell's elegant field experiment

(B)Rivet Popper hypothesis

(D) <mark>Gaue's competitive exclusion princ</mark>	ziple
<b>57.</b> (+) and (0) interactive shown by	
(A)Parasitism	(B)Mutualism
(C)Amensalism	(D) <mark>Commensalism</mark>
8. National tree of India is (2014)	
(A)Mangifera indica	(B)Azodirachta indica
(C) <mark>Ficus bengalensis</mark>	(D)Ficus religiosa
<b>59.</b> In Which of the following interactions <b>(2015)</b>	both partners are adversely affected?
(A)Predation	(B)Parasitism
(C)Mutualism	(D)Competition
<b>60.</b> An association of individuals of different having functional interactions is	ent species living in the same habitat and (2015)
(A)Biotic community	(B)Ecosoystem
(C)Population	(D) <mark>Ecological niche</mark>
<b>61.</b> Roots play insignificant role in absorp	otion of water in (2015)
(A) <mark>Pistia</mark>	(B)Pea
(C)Wheat	(D)Sunflower
<b>52.</b> Most animals are tree dwellers in a	
(A)Temperature deciduous forest	
(B)Tropical rain forest	
(C)Coniferous forest	
(D)Thorn woodland	

**63.** The correct statement is (2015)

(A)In a population, number of births is different from birth rate

(B)A sigmoid growth curve depiction of exponential growth

(C)In a logistic growth curve the asymptote is beyond the carrying capacity

(D)'r' is equal to the difference between number of births and number of deaths in a population.

**64.** The adaptations in an organisms are meant for **(2015)** 

(A)Optium primary production

(B)Optium life span

(C)optium mobility

(D)Optium survival and reproduction

**65.** 'Verhulst — Peral' is associated with the equation (2015)

(A) 
$$\frac{dN}{dt} = rN\left(\frac{K-N}{K}\right)$$
 (B)  $\frac{dN}{dt} = tN\left(\frac{K-N}{K}\right)$   
(C)  $\frac{dN}{dt} = rN\left(\frac{K-N}{N}\right)$  (D)  $\frac{dN}{dt} = tN\left(\frac{K-N}{N}\right)$ 

66. The organism which can tolerate and thrive in a wide temperature rang are known as (2015)

(A) Eurythermal

(B)Isothermal

(C)Homothermal

(D)Stenothermal

**67.** The Verhulst—Pearl logistic growth is described using the equation  $\frac{dN}{dt} = rN\left(\frac{K-N}{K}\right),$ in this *K* stand for (2015)

(A)Temperature in degree Kelvin

	(B)Intrinsic rate of natural increase		
	(C)Carrying capacity		
	(D)Population density		
68.	A succulent xerophytes is (2015)		
	(A)Capparis	(B)Calotropis	
	(C) <mark>Agave</mark>	(D)None of above	
69.	Germination of seed inside the fruit which	n is still attached	(2015)
	(A)Parthenocarpy	(B)Parasitism	
	(C)Commensalism	(D) <mark>Vivipary</mark>	
70.	Unlike in other plants, leaves of cactus set	rve the twin purpose	of <b>(2015)</b>
	(A)Photosynthesis and transpiration	60	
	(B)Transpiration and vegetative propagat	ion	
	(C)Protection and water conservation		

(D)Water storage and photosynthesis

**71.** Sigmod/logistic growth curve is represented by **(2015)** 

(A) 
$$\frac{dN}{dt} = rN$$
  
(B)  $\frac{dN}{dt} = rN(1-N/k)$   
(C)  $N_t = N_o + B + I - D - E$   
(D)  $\frac{dN}{dt} = 1 - \frac{N}{K}$ 

(2016)

**72.** Density of population D is **(2016)** 

(A)S(size)/W(weight)

(B)S(size)/N(number)

(C)N(number)/S(space)

(D)S(space)/W(weight)

**73.** Place occupied by an organism in relation to environment is

(A)Habit

(B)<mark>Habitat</mark>

(C)Edaphic (D)Niche

**74.** Amongst hydrophytes finely dissected leaves occur in **(2016)** 

(A)Rooted floating leaved plants

(B)Submerged plants

(C)Emerged plants

(D)Free floating plants

**75.** 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) (2016)

(A)When N/K equals zero

(B)When death rate is greater than birth rate

(C)When N/K is exactly one

(D)When N nears the carrying capacity of the habitat

**76.** Gause's principle of competitive exclusion states that **(2016)** 

(A)No two species can occupy the same niche indefinitely for the same limiting resources

(B)Larger organisms exclude smaller ones through competition

(C)More abundant species will exclude the less abundant species through competition

(D)Competition for the same resources excludes species having different food preferences

## **SECTION D: CHAPTER – END TEST**

1. Wattest region of India is		
(A)Assam	(B) <mark>Meghalaya</mark>	
(C)U.P.	(D)Rajasthan	
<b>2.</b> Biome with broad-leaved fire resistance drought enduring plants is		
(A)Savannah	(B)Steppes	
(C) <mark>Chapparal</mark>	(D)Deciduous forest	
<b>3.</b> Plants growing on sandstone are		
(A)Psammophtes	(B)Oxylophytes	
(C) <mark>Lithophytes</mark>	(D)Phanerophytes	
<b>4.</b> Soil salinity is measured by		
(A)Porometer	(B)Potometer	
(C)Calporimeter	(D) <mark>Conductivity meter</mark>	
5. Grassland of Asia are		
(A)Savannah	(B)Pampas	
(C) <mark>Steppes</mark>	(D)Veldt	
6. Which one of the following is a partial root parasite?		
(A)Balanophora	(B) <mark>Santalum</mark>	
(C)Viscum	(D)Cuscuta	

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7. Population was termed as self-perpetuating unit by

(A) <mark>Malthus</mark>	(B)Spencer
--------------------------	------------

- (C)Mobius
- 8. Viscum is

(A)Partial root parasite

(C)Total stem parasite

9. Instrument used for measuring wind velocity is

(A)<mark>Anemometer</mark>

(C)Lactometer

**10.** An obligate root parasite is

(A)Viscum

(C)Loranthus

11. Plants growing under average conditions of temperature and moisture are

(A)Hygrophytes

(C)Hydrophtes

12. Halopytes are

(A)Salt resistant

(C)Cold resistant

(D)Sand loving

**13.** Which pair is mismatched?

(A)Tundra—Permafrost

(B)Savannah—*Acacia* trees

(C)Parties—Epiphytes

(D)Coniferous forest—Evergreen trees

(B)Partial stem parasite

(D)Total root parasite

(B)Hydrometer

(D)Odum

(D)Photmeter

(B)*Striga* 

(D)<mark>Rafflesia</mark>

(B)<mark>Mesophytes</mark>

(D)Epiphytes

(B)Fire resistant

- **14.** Which one is a correct matching of plant, its habitat and the forest type where it normally occurs?
  - (A)<mark>Prosopis—tree—scrub</mark>
  - (B)Saccharum—grass—forest
  - (C)shorea robusta—herb—tropical rain forest
  - (D)Acacia catechu—tree—coniferous forest
- **15.** Plants growing in saline soil/high concentration of salts are
  - (A)Xerophytes
  - (C)Heliophytes
- **16.** Praying Mantis is a good example of
  - (A)Camouflage
  - (C)Mullerian mimicry
- 17. Santalum aluml Sandal wood Tree is
  - (A) Partial root parasite
  - (B)Partial stem parasite
  - (C)Total stem parasite
  - (D)Total root parasite
- 18. Psammophytes are plants growing on soil

(A)A lluvial	(B) <mark>Sandy</mark>
(C)Alkaline	(D)Acidic
<b>19.</b> Total root parasite is	
(A) <mark>Rafflesia</mark>	(B)Cassytha
(C)Viscum	(D)Loranthus

(B)Halophytes

(D)Hydrophytes

(B)Warning colourtion

(D)Social insect.

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**20.** Consequences of population explosion were explained for the first time by (A)Darwin (B)De Vries (C)Lamarck (D)Malthus **21.** Aerenchyma occurs in (A)Epiphytes (B)Halophytes (C)<mark>Hydrophytes</mark> (D)Xerophytes **22.** Ephermerals are a type of xerophytes (A) Drought escaping (B)Drought resisting (D)None of the above (C)Parasitism 23. Association between Barnacles and whale *Limulus* is (B)Commensalism (A)Symbiosis (D)Predatorship (C)Parasitism 24. Plants growing on sandy soils are (A) Oxylophytes (B)Psammophytes (C)Psychrophtes (D)Lithophytes **25.** Maximum survival and reproductive capacity shown by a (A)Carrying capacity (B)Natality (C)Biotic potential (D)Vitality

**26.** An unrestricted or maximum reproductive capacity is called

(A)Birth rate	<b>(B)</b> Biotic potential
(C)Carrying capacity	(D)Fertility

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- **27.** Actively moving organisms in aquatic ecosystem are (A)Benthos (B)Zooplankton (C)Phytoplankton (D)Nekton **28.** Resemblance of an organisms to another for protection and hiding is (A)Camouflage (B)Mimicry (C)Predation (D)Adaption **29.** Best method to solve population problem in India is a (A)Increase food production (B)Increase medical facilities (C)Reduce birth rate (D)Conserve natural resources **30.** *Hydrilla* is (A)Phytoplankton (B)Floating hydrophyte (C)Submerged hydrophyte (D)Amphibian **31.** Fresh water bony fishes maintain water balance by (A) Excreting hypotonic urine (B)Excreting wastes as uric acid (C)Drinking small amount of water (D)Excreting salt across their gills **32.** A class with the largest number of animals is
  - (A)Mammalia (B)Insecta
  - (C)Reptilia (D)Pisces

**33.** In *Opuntia*, the spines are modifications of (A)Stems (B)Leaves (C)Roots (D)None of the above **34.** Leaves are changed into spines in xerophytic structures called (A)Phyllode (B)Cladode (C)Phylloclade (D)All the above **35.** Which among the following is monocarpic? (A)Coconut (B)Apple (C)Bamboo/Agave (D)Mango **36.** Which two of the following changes (a—d) usually tend to occur in plain dwellers when they move to higher altitudes (3500 m or more)? (a)Increase in red blood cell size (b)Increase in red blood cell production (c)Increase in breathing rate (d)Increase in thrombocyte rate (B)a and d (A)c and d (D) b and c (C)a and b **37.** Mountain sickness at high altitude is due to (A)Excess CO2 in air (B)Decrease CO<sub>2</sub> in air (C) Decrease partial pressure of oxygen (D)Decrease efficiency of haemoglobin 38. At high altitude, RBCs of human blood will (A) Increase in number (B)Decrease in number

(C)Decrease in size

(D)Increase in size

- **39.** People living at sea level have around 5 million RBCs/mm<sup>3</sup> of blood whereas those living at an altitude of 5400 m have around 8 million. This is due to
  - (A)There is more UV radiation which enhances RBCs production
  - (B)People eat more nutritive food which helps in formaion of more RBCs
  - (C)People get pollution free air to breathe with more oxygen becoming available
  - (D)Atmosphereic O<sub>2</sub> level is less so that more RBCs are needed to absorb the required amount of O<sub>2</sub> to survive
- **40.** Many fresh water animals cannot live for long in sea water and vice versa mainly because of

(A)Change in nitrogen level

(B)Change in thermal tolerance

(C)Variation in light intensity

**(D)**Osmotice problems

(C)Clay soil

**41.** Which are true about the following statement about kangaroo rats?

(a) They have dark colour, high rate of reproduction and excrete solid urine

(b)They do not drink water, breathe at slow rate, and have their body covered with thick hair

(c)The food on dry seeds and do not require drinking water

(d)They excrete very concentrated urine and do not use water to regulate body temperature

(A)c and a	(B)a and b
(C) <mark>c and d</mark>	(D)b and c
<b>42.</b> Water holding capacity is highest in	
(A)Sandy soil	(B)Silt soil

(D)Loam soil

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43. Soil water available to roots is

(A)Surface water

(C)Gravitational water

44. During extreme aridity, Desert Rat

(A)Stores water

(C)Saves water

(B)Hygroscopic water

(D)Capillary water

(B)Uses metabolic water

(D)Does not use wate

- **45.** According to Allen's Rule, the mammals from colder cliamtes have
  - (A)Shorter cars and longer limbs
  - (B)Longer ears and shorter limbs
  - (C)Longer ears and longer limbs
  - (D)Shorter ears and shorter limbs
- 46. Trophical forests occur in India
  - (A)Jammu and Kashmir
  - (B)Rajasthan
  - (C)Kerala and Assam
  - (D)The forests do not occur in India
- 47. Carryingt capacity is determined by
  - (A)Limiting resources
  - (B)Morality rate
  - (C)Natality rate
  - (D)Predation

**48.** Each environment can support a limited population depending upon its

(A)Biotic potential

(B)Carrying capacity

(C)Natality

(D)Reproductive potential

**49.** Population daya is

(A)5<sup>th</sup> may

(C)December 1

(B)<mark>11<sup>th</sup> July</mark>

(D)21st August

**50.** Competition is the most serve between two

(A)Closely related species growing in different niches

- (B)Closely related species growing in the same habitat
- (C)Distantly related species growing in the same habitat
- (D)Distantly related species growing in different niches