



## BIOLOGY

# BOOKS - JMD BIOLOGY (PUNJABI ENGLISH)

## Organisms and Population

### Exercise

1. study of inter-relationship between organisms and their environment is

A. ecology

B. ecosystem

C. phytogeography

D. Ethology

**Answer: A**



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2. study of internal relationship between a species or individual and its environment in all stages of its life cycle is

A. Synecology

B. Forest Ecology

C. Autecology

D. Ecology

**Answer: C**



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**3. ecology is connected with the study of**

A. environmental factors

B. plant adaptation

C. effect of plant on environment

D. all of the above

**Answer: D**



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4. study of interrelationship between an entire community and its environment is

A. autecology

B. resource ecology

C. species ecology

D. Synecology

**Answer: D**



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5. submerged hydrophytes have a well-developed

A. vascular system

B. Aerenchyma

C. root system

D. stomatal system

**Answer: B**



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6. individual of a species which occur in a particular area constitutes

A. Flora

B. Fauna

C. Population

D. Flora and fauna

**Answer: C**



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7. ecology term was coined by

A. Linnaeus

B. Haeckel

C. Harvey

D. Odum

**Answer: B**



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**8. ecology term was coined by**

A. Aristotle

B. Reiter

C. Linnaeus



D. Odum

**Answer: B**



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9. the sum total of the populations of the same kind of organisms constitutes

A. Colony

B. Genus

C. Community

D. Species

**Answer: D**



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**10.** ecology is study of relationship of

A. members of a family

B. man and environment

C. organisms and environment

D. Soil and water

**Answer: C**



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**11. Synecology is study of**

A. human environment of a place

B. biotic environment of a place

C. abiotic component of a place

D. biotic community in relation to  
environment of a place

**Answer: D**



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**12.** which one of the following is the famous plant ecologist in India?

A. Charles Darwin

B. Ramdeo Misra

C. Birbal Sahani

D. J.C. Bose

**Answer: B**



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**13.** succulent plants occur in

- A. Deserts ecosystem
- B. Tundra ecosystem
- C. Temperate deciduous forests
- D. Tropical rain forests

**Answer: A**



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**14.** thick cuticle occurs on the leaves of plants belonging to

A. cool habitats

B. warm habitat

C. dry habitats

D. wet habitats

**Answer: C**



15. stomata are sunken i.e, guard cells with subsidiary cells in

- A. mesophytes
- B. xerophytes
- C. hydrophytes
- D. hydrophytes

**Answer: B**



**16.** a bird introduced from another country become a serious pest due to

A. better adaptation to new area

B. most sexual reproduction

C. better nesting habitats

D. absence of natural competition

**Answer: D**



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17. abundance of a species population within its habitat is

A. absolute density

B. regional density

C. relative density

D. Niche density

**Answer: D**



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**18.** an orchids resembling the female of an insect so as to be able to get pollinated is due to phenomenon of

A. mimicry

B. pseudo coputation

C. pseudo pollination

D. pseudo-parthenocarpy

**Answer: A**



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**19.** match the columns and find the correct combination

I(a. Camouflage, b. Batesian mimicry, c. warning coloration, d. Echolocation), II(1. Dendrobate spumilio, 2. Horse shoe Bat, 3. Monarch Butterfly, 4. Praying Mantis).

A. (a)-2, (b)-4, (c)-3, (d)-1

B. (a)-3, (b)-4, (c)-2, (d)-1

C. (a)-4, (b)-1, (c)-3, (d)-2

D. (a)-4, (b)-3, (c)-1, (d)-2

**Answer: D**



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**20.** the maximum possible rate of increase of population of a given species under ideal condition would depend upon is

- A. biotic potential
- B. realised natality
- C. carrying capacity
- D. biomass

**Answer: A**



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**21.** Asymptote is the stage when a population is

A. stabilized

B. changing

C. increasing

D. decreasing

**Answer: A**



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22. two opposite forces operate in the growth and to the ability to reproduce at a given rate. the force opposing it is called

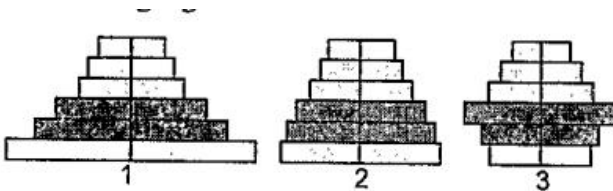
- A. carrying capacity
- B. Fecundity
- C. biotic potential
- D. environmental resistance

**Answer: D**



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**23.** which type of age pyramids of human population as shown by the 1, 2, and 3 respectively in the following figures?



A. 1-stable, 2-expanding, 3-declining

B. 1-expanding, 2-declining, 3-stable

C. 1-expanding, 2-stable, 3-declining

D. 1-declining, 2-stable, 3-expanding

**Answer: C**



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**24.** the number of children that a couple must produce to replace them is called

A. biotic potential

B. clone



C. reproductive potential

D. Ramet

**Answer: A**



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**25.** Crude birth rate and crude death rate of human population are calculated on

A. 7th January

B. 7th March

C. 7th July

D. 31st March

**Answer: C**



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**26. Fill in the blanks**

organism which can tolerate wide range of temperature are .....



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## 27. Fill in the blanks

maintaining the constancy of internal environment is referred to as .....



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## 28. Fill in the blanks

shivering is a kind of exercise which produces ..... and raises the body .....



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**29. Fill in the blanks**

tiger census in National park can be counted  
by ..... and .....



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**30. Fill in the blanks**

siberian cranes visit India in every winter in  
..... National park



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### 31. Fill in the blanks

..... and ..... breed only once in their lifetime.



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### 32. Fill in the blanks

in Australia, cactus was brought under control  
by .....



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### 33. Fill in the blanks

Calotropis plant has highly poisonous cardiac

.....



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### 34. Fill in the blanks

parasite are normally ..... specific.



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**35. Fill in the blanks**

broode parasitism is shown by the interaction between ..... and .....



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**36. true or false**

pital of Mediterranean Ophyrus resembles with male bee.



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**37.** true or false

Fig is always pollinated by Yucca.



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**38.** true or false

Cuscutta is a free living plant in the nature.



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**39.** true or false

'K' stands for carrying capacity of the resource.



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**40.** true or false

individual has birth and death.



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**41.** true or false

mortality increases the population of the species in an area.



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**42.** true or false

body temperature of a man is  $37^{\circ}\text{C}$ .



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**43.** true or false

organisms tolerating a wide range of salinities are stenohaline.



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**44.** true or false

snow leopards are very common in Kerala forest.



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**45.** true or false

seals have a thick layer of fat called blubber.



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**46.** Difference between Commensalism and Amensalism.



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**47.** Define Commensalism. Give examples.





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**48.** What is the most significant adaptation of hydrophytes?



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**49.** Name two organisms associated to form lichens.



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50. Differentiate natality rate and mortality rate.



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51. What is ecological niche?



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52. What is diapause?



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**53.** Define phenotypic adaptation. Give one example.



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**54.** What are sciophytes?



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**55.** State and explain Gause's Competitive exclusion principle.



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56. High fever, loss of appetite, stomach pain and constipation are some of the symptoms seen in a patient. how would the doctor confirm that the patient is suffering from typhoid and not amoebiasis?



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**57.** Name one respiratory disease that infects the lungs alveoli and one that does not infect the lungs.



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**58.** How does malaria differ from chikungunya with reference to their vectors?



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**59.** What role do macrophages play in providing immunity to humans?



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**60.** Name any two secretions in the body that act as physiological barriers of innate immunity,



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