

VCD : 180522

CLASS : F.Y.Bsc (CBZ)

SUB- ZOOLOGY PAPER I

HOURS : 3 HOURS.

MARKS: 100

- NOTE:** 1) All questions are compulsory
 2) Figures to the right indicate marks.
 3) Draw suitable diagrams wherever Necessary.

Q.NO. 1. Choose the correct option and Rewrite the statement (2 Marks each)

1. The word 'population' derived from a Latin word _____.
 A) populus B) populi C) people D) Popule
2. _____ is the study of the number of organisms which determines their abundance and distribution.
 A) Ecosystem B) Ecology C) Population Ecology D) Population Dynamics
3. _____ is generally expressed as the total number of individuals belonging to a particular species occupying a given habitat.
 A) crude population density B) specific density C) ecological density D) population ecology
4. _____ may be defined as loss of individuals of a species, due to death per unit time.
 A) Natality B) Fecundity C) Density D) Mortality
5. The change in the population is influenced by _____.
 A) Only Natality B) Only Mortality C) Fecundity D) Both Natality & Mortality
6. The Lotka-Volterra model explains _____.
 A) Population Interaction B) Distribution Pattern C) Survivorship Curve D) Life Table
7. GIS is known as _____.
 A) Geological In Situ B) Geographic information system C) Geographic Intellect System D) Geographic Input System
8. Reproductive age group is based on age _____.
 A) 15-59 years B) age above 59 years C) none D) 14 year
9. _____ is the basic functional unit of ecology.
 A) Ecosystem B) Biotic C) Temperature D) Abiotic
10. Increase in temperature _____ the rate of metabolic activity.
 A) Increase B) Decrease C) Stable D) Unstable
11. Parasitism is the example of which of the following interactions?
 A) Positive B) Negative C) Spactaculus D) Biogenesis
12. Producers are also called as _____.
 A) Ecosystem B) Autotrophs C) Heterotrophs D) Homotrophs
13. Producers are called as _____ since they get their energy from chemicals and not sunlight.
 A) Aurotrophs B) Chemotrophs C) Decomposers D) Saprophytes
14. The parasites that live on the surface of the body of host are called _____.
 A) Endoparasites B) Obligate C) PPathogenic D) Ectoparasites
15. Which of the following is a positive interspecific interaction?
 A) predation B) parasitism C) amensalism D) mutualism
16. The animals which injest other organism for their survival are called as _____.
 A) Producers B) Censurers C) Autotrophs D) Decompers
17. Which of the following interactions where one species is benefited while other is neither benefited nor harmed?
 A) Mutualism B) Commensalism C) Predation D) Amensalism
18. Sanjay Gandhi national park is situated in _____.
 A) Nagpur B) Palakkad C) Borivili D) Palghar
19. Brand animal of Sanjay Gandhi national park is _____.
 A) Leopard B) One horned Rhinoceros C) Tiger D) Snow leopard
20. The Scientific Name of The Bengal Tiger is _____.

A) *Panthera tigris tigris* B) *Panthera Leo* C) *Panthera pardus* D) *Uncia uncia*

21. Extinction in the wild means animals survived only in _____.

A) Wild B) Burrows C) Captivity D) water

22. Vulture population declined in India due to _____.

A) poaching B) diclofenac C) acid rain D) Telmisartan

23. Nearest airport to Tadoba national parks is _____.

A) Bambolim B) Baghdogra C) Nagpur D) Kochi

24. We can see coral reefs at _____.

A) Andaman B) Thar desert C) Ladakh D) Jammu

25. _____ is the oldest national park in India.

A) Jimcorbett national park B) Borivili National Park C) Hemis national park D) Gir national park

Q2 Answer the following

8 MARKS

a) Explain the concept and mechanism of Human census (India).

OR

a) Write a note on use of Modern techniques in census and significance.

b) Write in details about 'J' shaped Growth curve.

7 MARKS

OR

b) Explain Types and uses of Life Tables.

Q3 Answer the following.

8 MARKS

a) What is an ecosystem? Describe the component of an ecosystem.

OR

a) What is animal interaction? Describe the intraspecific interaction.

8 MARKS

b) Discuss the effect of temperature on the living organism.

7 MARKS

OR

b) Explain different types of ecological pyramids.

Q4 Answer the following.

8 MARKS

a) Define National Park and describe any one Sanctuary in India.

OR

a) Explain Sanjay Gandhi National Park.

b) Give details about Kaziaranga National Park.

7 MARKS

OR

b) Write a note on Tadoba National Park.

Q5 Write a short notes (Any one)

5 MARKS

a) Food chain

b) Natality and Mortality