

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)

- The word 'population' derived from a Latin word _____.
 A) populus B) populi C) people D) Popule
- _____ is the study of the number of organisms which determines their abundance and distribution.
 A) Ecosystem B) Ecology C) Population Ecology D) Population Dynamics
- _____ 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
- _____ may be defined as loss of individuals of a species, due to death per unit time.
 A) Natality B) Fecundity C) Density D) Mortality
- The change in the population is influenced by _____.
 A) Only Natality B) Only Mortality C) Fecundity D) Both Natality & Mortality
- The Lotka-Volterra model explains _____.
 A) Population Interaction B) Distribution Pattern C) Survivorship Curve D) Life Table
- GIS is known as _____.
 A) Geological In Situ B) Geographic information system C) Geographic Intellect System D) Geographic Input System
- Reproductive age group is based on age _____.
 A) 15-59 years B) age above 59 years C) none D) 14 year
- _____ is the basic functional unit of ecology.
 A) Ecosystem B) Biotic C) Temperature D) Abiotic
- Increase in temperature _____ the rate of metabolic activity.
 A) Increase B) Decrease C) Stable D) Unstable
- Parasitism is the example of which of the following interactions?
 A) Positive B) Negative C) Spactaculus D) Biogenesis
- Producers are also called as _____.
 A) Ecosystem B) Autotrophs C) Heterotrophs D) Homotrophs
- Producers are called as _____ since they get their energy from chemicals and not sunlight.
 A) Aurotrophs B) Chemotrophs C) Decomposers D) Saprophytes
- The parasites that live on the surface of the body of host are called _____.
 A) Endoparasites B) Obligate C) PPathogenic D) Ectoparasites
- Which of the following is a positive interspecific interaction?
 A) predation B) parasitism C) amensalism D) mutualism
- The animals which injest other organism for their survival are called as _____.
 A) Producers B) Censurers C) Autotrophs D) Decompers
- 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
- Sanjay Gandhi national park is situated in _____.
 A) Nagpur B) Palakkad C) Borivili D) Palghar
- Brand animal of Sanjay Gandhi national park is _____.
 A) Leopard B) One horned Rhinoceros C) Tiger D) Snow leopard
- 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