

S.Y.B. Sc. Semester IV Examination

Zoology Paper III USZO302 Course IV

VCD 050428

All Questions are compulsory.

Figures to the right indicate full marks.

Draw neat and labelled diagrams wherever necessary.

Time: 3 hours

Total marks: 100

Q.1. A) Fill in the blanks.

1. The word _____ means surrounding or conditions in which living beings exist.
(Troposphere, Environment, Ozone Layer, Mesosphere)
2. _____ is an envelope of gases surrounding the earth and has various strata.
(Hydrosphere, Lithosphere, Atmosphere, Methane)
3. The onset of menstruation is called _____. (Menopause, andropause, menarch).
4. Surgical methods of contraception is called as _____. (Sterilization, Barrier method, Hormonal method)
5. The process of formation of female gamete is called as _____ (fertilization, spermatogenesis, oogenesis)

B) Match the column

5 Marks

- | | |
|-------------------------|------------------------|
| 1. Anthropogenic | a. NO-NO ₂ |
| 2. IVF | b. Blastocoel |
| 3. Air pollutants | c. Man-made |
| 4. Meroblastic cleavage | d. ART |
| 5. Blastulation | d. incomplete division |

C) Write true or false

5 Marks

1. Ozone layer do not protect the troposphere.
2. Global warming occurs due to greenhouse gases.
3. PCOS is endocrine disorder causing female infertility.
4. Absence of sperm in semen in called azoospermia.
5. Emboli is type of morphogenic movement.

D) Answer the following

5 Marks

1. Define pollution.
2. What are secondary pollutants.
3. Define infertility.
4. Blastocyst
5. Alecithal egg

Q.2. Answer the following. (Any two)

20 Marks

1. Describe different types of cleavage.
2. Write in brief coelom formation and types.
3. Classify the eggs based on amount of yolk.
4. Describe different types of sperms in animals

Q.3. Answer the following (Any two).

20 Marks

1. What are IUDs? How they work as barriers for fertilization.
2. Define infertility and explain the causes of female infertility
3. Describe the Female reproductive system and its hormonal regulation.
4. What are sperm banks? Add a note on cryopreservation of sperm?

Q.4. A) Answer the following (Any two)

20 Marks

1. Describe the various effects of soil pollution and add a note on its control measures.
2. What are the effects and control measures of Air pollution?
3. Describe various hazards of radioactive pollution.
4. What is climate change? Discuss it with reference to pollution.

Q.5. Write a short note on (Any four)

20 Marks

- a. IFT
- b. GIFT
- c. IVM
- d. Different types of pollutants that cause air pollution
- e. Greenhouse effect
- f. Effects of noise pollution
- g. Morphogenic movements
- h. Types of sperms