

**S.Y.BSc. Semester-IV A.T.K.T Examination**

**Zoology Paper-III**

**Course Code- USZO 403**

Duration: 3.00 Hr.

Total Marks: 100

Note: 1) All questions are compulsory.

2) Draw the diagrams wherever necessary.

3) Figure at Right indicates marks.

4) Answer the questions in serial order.

**Q1) A) Fill in the blanks**

(05)

- 1) Ovulation is under the control of.....  
(Estrogen, LH, FSH)
- 2) ..... Is present in air conditioners which depletes the ozone layer.  
(CFC, SO<sub>2</sub>, HNO<sub>3</sub>)
- 3) ..... cleavage causes cell divisions are equal and symmetrical to the polar axis of the egg.  
(Radial, Bilateral, Spiral)
- 4) Neisseria gonorrhoeae bacteria causes.....  
(Gonorrhea, Syphilis, Chlamydia)
- 5) ..... means migration of epithelial cells inwards to form depression.  
(Invagination, Involution, Ingression)

**B) Match the following**

(05)

- |                              |                                       |
|------------------------------|---------------------------------------|
| 1) Tsunami                   | A) Amphibians                         |
| 2) Vasectomy                 | B) Father of Indian Nuclear Programme |
| 3) Contra-deciduous placenta | C) Sterilization in male              |
| 4) Dr. Homi Bhabha           | D) Natural disaster                   |
| 5) Involution                | E) Mole                               |

**C) True or False**

(05)

- 1) During extension the germ layer is stretched to increase the length.
- 2) A horizon of soil is made up of minerals.
- 3) Hormone replacement Therapy is done using estrogen and progesterone.
- 4) Screening and treatment of waste water is very important
- 5) Wet Land area plays an important role in soil holding.

**D) Answer in one sentence**

(05)

- 1) Define Holoblastic cleavage
- 2) Full form of PUC
- 3) What is Endometriosis?
- 4) Full form of IFT
- 5) What is Zonary placenta?

**Q2) Answer the following (Any 2)**

(20)

- 1) Enumerate different types of placenta on basis of histological characteristics.
- 2) Describe in detail Amnion and Chorion.
- 3) Explain gastrulation in mammals.
- 4) Describe in detail morphogenetic movements.

**Q3) Answer the following (Any 2)**

(20)

- 1) Explain any four methods of ART
- 2) Describe cryopreservation in detail and add a note on sperm bank.
- 3) Enumerate causes of infertility in females.
- 4) Explain hormonal regulation in female. Add a note on menopause.

**Q4) Answer the following**

(20)

- 1) Enlist the various sources of water pollution and give its effect
- 2) Explain global warming with respect to pollution
- 3) Describe types and sources of solid waste pollution. Add a note on its control.
- 4) In detail explain radioactive pollution.

**Q5) Write short Notes on (Any 4)**

(20)

- 1) Causes of ozone depletion
- 2) ZIFT
- 3) Allantois
- 4) Surrogacy
- 5) Barrier method of contraception
- 6) Oil spill
- 7) Sperm structure
- 8) Andropause