

## XII – ZOOLOGY VERY IMPORTANT QUESTIONS

### **1.Reproduction in organisms**

**2m**

- 1.plasmotomy
- 2.Amphitomy

**3m**

- 1.Morphhallains -epimorphosis
- 2.conjugation
- 3.Exogenous/Endogenous budding

**5m**

- 1.Fission and types?
- 2.Regeneration ? Types?
- 3.syngamy/fertilization.
- 4.phase of life cycle
- 5.parthenogenesis? Types?

### **2.Human reproduction**

**2m**

- 1.polyspermy
- 2.Hyaluronidase
- 3.Ectopic pregnancy
- 4.Siamese
- 5.Menopause
- 6.Corpus albicans
- 7.Corpus luteum

**3m**

- 1.structure of sperm
- 2.Structure of ovum
- 3. Cryptorchism
- 4.Three layer of uterus
- 5. Reproductive system main function
- 6.colostrum
- 7.Let down reflex

**5m**

- 1.Major reproductive events?
- 2.Events of fertilization
- 3.Gametogenesis
- 4.Extra embryonic membranes
- 5.Menstrual cycle
- 6.Parturition and lactation

### **3.Reproductive Health**

**2m**

- 1.PCPNDT -ACT

2.surrogacy

3.Foetescope

**3m**

- 1.Female foeticide/infanticide
- 2.child Immunization programs
- 3.Prevention of STD
- 4.Cryopreservation

**5m**

- 1.Birth control
- 2.ART – technology
- 3.Causes of infertility
- 4.Breast cancer

### **4.principles of inheritance and variations**

**2m**

- 1.Holandric genes.
- 2. Pedigree chart.

**3m**

- 1.Albinism
- 2. Erythroblastosis fetal

**5m**

- 1.ABO - Blood groups
- 2.Human sex determination.
- 3.colour blindness.
- 4. Positive Eugenics / Negative Eugenics
- 5.Application of Karyotyping
- 1. Haplodiploidy / 2. Lyonisation
- 3. criss cross inheritance

### **5. molecular genetics.**

**2m**

- 1. Nucleoside / Nucleotide.
- 2. Transcription.

**3m**

- 1.One gene 1 Hypothesis. One enzyme
- 2.Gene is functional unit of Inheritance.

**5m**

- 1. Properties of genetic material / 2. genetic code material.
- 3. Lac operon model./Salient features of Human Genome Project.

### **6. Evolution.**

**2m**

- 1.Theory of recapitulation
- 2. Use and disuse theory

**3m**

- 1.Big Bang theory

- 2. convergent Evaluation
- 3.Relative dating / Absolute dating

**5Marks**

- 1. urey and miller Experiment,
- 2. objection of Lamarkism/ Darwinism.
- 2. Salient features of mutation theory
- 4. Sewall weight Effect
- 5. Hardy - Weinberg Principle / assumptions.

**7. Human Health and disease.**

**2marks**

- 1.Enteric fever
- 2.Nipah virus.

**3marks**

- 1. Types of malaria
- 2 Cannabinoids

**5marks**

- 1.Common Human disease
- 2.Prevention and control Alcohol

**8.Immunology**

**2marks**

- 1. Peyer's Patches.
- 2. MALT
- 3. types of Immunoglobulin.

**3marks**

- 1.Antigen/Antibodies reaction
- 2.Anaphylaxis
- 3. Scope of immunology

**5marks**

- 1. Immunoglobulin.
- 2. Enumate Immunity and types.
- 3. Stature of HIV
- 4. thymus is secondary lymphoid organs
- 5. scope of Immunology

**9. Microbes in human welfare**

**2marks**

- 1. Zymology/oenology

**3marks**

- 1.Cyclosporim A

**5 marks**

- 1.microbes in the production of biogas.

**10. Application of Biotechnology**

**2marks**

- 1.Totipotency
- 2. Pluripotency

- 3. Trade marks

**3marks**

- 1. Somatic / greem line gene therapy

**5marks**

- 1. DNA vaccines.
- 2. uses of transgennic
- 3. Advantage and disadvantages of cloning?
- 4. Ethical Issues of closing

**11. Organisms and Populations**

**2marks**

- 1. Pedosphere.
- 2. Acclimatization..
- 3. Bergmann's Rule

**3marks**

- 1.phototropism
- 2. Ecological Niche
- 3. Eurytherms / Stenotherm's

**5marks**

- TNDRA / TAIGA Biomass
- Properties of water / Soil

**12. BIO DIVERSITY AND CONSERVATION**

**2 Marks**

- 1. Where are the sparrows?
- 2. Red data Book

**3 Marks**

- 1. Scared Crows
- 2. CITIES

**5 Marks**

- 1. Insitu/ Exsitu conservation
- 2. Causes of Bio diversity law
- 3. Level of Bio diversity

**13.ENVIRONMENTAL ISSUES**

**2 Marks**

- 1.Global Warming
- 2. Ozone Depletion
- 3. Acid rain

**3 Marks**

- 1.Air quality index
- 2.Algal bloom
- 3.Agro chemical
- 4. ECOSAN TOILET

**5 Marks**

- 1. Classification of Pollutants
- 2. Eutrophication
- 3. E- waste