

ZOOLOGY 2021

(AS PER CONDENSED SYLLABUS)

TIME: 1 Hour 30 Minutes

(45 Marks)

NOTE:

- i) This section consists of 22 part questions and all are to be answered. Each question carries ONE mark.
- ii) Do not copy the part questions in your answer book. Write only the answer in full against the proper number of the question and its part.

SECTION 'A' (Multiple Choice Questions) (22)

1. Choose the correct answer for each from the given options:

- i) The process of removal of metabolic wastes is called:
 - * Homeostatis
 - * Excretion✓
 - * Osmoregulation
 - * Thermoregulation
- ii) Skeleton is totally absent in:
 - * Sponge
 - * Star fish
 - * Amoeba✓
 - * fish
- iii) Kidney stone or calculi are 70% composed of:
 - * Calcium phosphate
 - * Calcium oxalate✓
 - * Magnesium phosphate
 - * Sodium oxalate
- iv) It is not endocrine gland:
 - * Liver
 - * Pancreas
 - * Spleen✓
 - * Ovary
- v) A clone exactly resemble with:
 - * Mother
 - * Father
 - * Diploid nucleus donor✓
 - * Haploid nucleus donor
- vi) Lemark's theory based on following points except:
 - * Effect of environment
 - * Natural selection✓
 - * Use and discuss of organs
 - * Inheritance of acquired character
- vii) The egg of hen is laid at the stage:
 - * Cleavage
 - * Blastula✓
 - * Morula
 - * Gastrula
- viii) The concentration of oxygen in atmosphere is about:
 - * 21%✓
 - * 30%
 - * 50%
 - * 60%
- ix) The non-coding sequence of gene are:
 - * Codon
 - * Exon
 - * Intron✓
 - * Anti-codon
- x) About 180 litres fluid is filtered by the kidney everyday, 1.2 litres is excreted in urine while remaining 178.8 litres.
 - * Lost as sweat
 - * stored in bladder
 - * reabsorbed into the blood✓
 - * becomes tissue fluid
- xi) Each myosin filament is surrounded by:
 - * 4 actin filaments
 - * 6 actin filaments✓
 - * 8 actin filaments
 - * 12 actin filaments
- xii) Goitre is caused by the lack of:
 - * iodine✓
 - * thyroxine
 - * protein
 - * lipids
- xiii) The early division of fertilized egg is called:"
 - * blastulation
 - * cleavage✓
 - * gastrulation
 - * neurulation
- xiv) These are spindle shaped uninucleated muscles:
 - * smooth muscle✓
 - * striated and branched muscle
 - * striated and unbranched muscle
 - * elongated and binucleated muscle
- xv) Hermaphroditite is the term used for:
 - * Unisexual animals
 - * Bisexual animals✓
 - * Dioeious animals
 - * Multisexual animals
- xvi) It is controlled by medulla oblongata in the brain:
 - * vision
 - * memory
 - * balance
 - * breathing✓
- xvii) The enzyme used to seal the DNA is:
 - * Restriction enzyme
 - * Ligase enzyme✓
 - * Polymerase
 - * Endonuclease
- xviii) Multifactorial defects include:
 - * one gene
 - * many genes
 - * many genes and environmental factors✓
 - * chromosomal abnormalities
- xix) This bone is not present in the lipids
 - * Tibis✓
 - * Humerus
 - * Radius
 - * Ulna
- xx) This gas is responsible for global warming
 - * Oxygen
 - * Nitrogen
 - * Carbon Dioxide✓
 - * ozone
- xxi) ADH and oxytocin are secreted by:
 - * Anterior pituitary
 - * posterior pituitary✓
 - * pined gland
 - * Hypothalamus
- xxii) Ovulation is initiated by this hormone:
 - * FSH
 - * LH✓
 - * LTH
 - * STH