

### ANIMAL KINGDOM

- Q.1: Difference b/w chordates & non-chordates?
- Q.2: Difference b/w Chondrichthyes & Osteichthyes?
- Q.3: Types of Coelom ?
- Q.4: Metamerism?
- Q.5: General characters of Cnideria , plathyelmenthies?

### CELL STRUCTURE & FUNCTIONS

- Q.1: Difference b/w prokaryotic & eukaryotic cell?
- Q.2: Cilia & Flagella?
- Q.3: Structure of Mitochondria?
- Q.4: Plastid types?
- Q.5: Endoplasmic reticulum?
- Q.6: 70'S & 80'S Ribosomes?
- Q.7: Chromosome types?

### CELL CYCLE & CELL DIVISION

- Q.1: Difference b/w Mitosis & Meiosis?
- Q.2: Interphase?
- Q.3: Why is mitosis called equational division?

### BIO-MOLECULES

- Q.1: Macro molecules (with Examples)
- Q.2: Proteins as therapeutic agents , application of proteins ( E'g Cosmetic's)
- Q.3: Enzymes?

### STRUCTURAL ORGANISATION IN ANIMALS

- Q.1: Difference b/w regular & dense irregular connective tissue?
- Q.2: Red muscle & White muscle?
- Q.3: Epithelial tissue types?

## **HUMAN PHYSIOLOGY**

### **DIGESTION & ABSORPTION**

- Q.1: Dental formula of human beings?
- Q.2: Basic layers of alimentary canal?
- Q.3: Gastric juice action?
- Q.4: Digestion in small intestines?

### **Breathing & exchange of gases**

- Q.1: Mechanism of breathing?
- Q.2: Transport of CO<sub>2</sub> & O<sub>2</sub>
- Q.3: Respiratory volumes?
- Q.4: Disorders of respiratory system?

## **BODY FLUIDS & CIRCULATION**

- Q.1: Blood as connective tissue?
- Q.2: Difference b/w lymph & blood?
- Q.3: O<sub>2</sub> Dissociation curve?
- Q.4: Str. Of heart & ECG?

## **EXCRETORY PRODUCTS & ELIMINATION**

- Q.1: Auto regulatory mechanism of GF<sub>3</sub>?
- Q.2: Micturation?
- Q.3: Cortical & guxtra medullary nephron?
- Q.4: Urine formation?
- Q.5: Regulation & kidney function?

## **LOCOMATION & MOVEMENT**

- Q.1: Types of joints & sliding filament theory?
- Q.2: Mechanism of muscle contraction?
- Q.3: osteoporosis ?
- Q.4: Skeltal muscles & smooth muscles?

## **NEURAL CONTROL & COORDINATION**

- Q.1: Generation & conduction of nerve impulse?**
- Q.2: Structure of human eye?**
- Q.3: Mechanism of vision?**
- Q.4: Structure of neuron?**

## **CHEMICAL COORDINATION & INTEGRATION**

- Q.1: Thyroid hormones & their function?**
- Q.2: Mechanism of hormone action?**
- Q.3: Insulin & glycogen?**

## **ADDITIONAL QUESTIONS**

- Q.1: Reproductive system in earthworm & cockroach?**
- Q.2: Mesosome & its functions?**
- Q.3: Composition of blood?**
- Q.4: Double circulation?**
- Q.5: Open & closed circulatory system?**