



## **Syllabus for written examination for Assistant Veterinary Field Officers (Biology)**

**Structural and functional organization of cell** – Structure and function of cell and cytoplasmic constituents – nucleus, plasma membrane, mitochondria, golgibodies, endoplasmic reticulum and ribosome. Cell cycle, Cell division (mitosis, meiosis), Cell death, Structure and function (metabolism) of carbohydrates proteins, lipids and nucleic acids.

**Embryology-** Gametogenesis, fertilization parthenogenesis, neoteny, metamorphosis, placenta in mammals.

**Environmental biology** – Conservation of Natural resources, Environmental impact assessment.

**Toxicology-** Classification of Toxicants, Toxic Agents & their Action- Metallic and Inorganic Agents Animal Poisons- Snake venom, Scorpion & bee poisoning Food Poisoning.

**Microbiology** – General & Applied Microbiology, Brief Account of Life History & Pathogenicity of the following pathogens with reference to man, Prophylaxis & Treatment-

- a. Protozoans- Entamoeba, Trypanosoma & Giardia.
- b. Helminths- Schistosoma
- c. Nematode- Pathogenic parasites of man

Vector insects

**Plant Physiology-** Photo synthesis, history factors affecting mechanism and importance absorption and their role in nutrition, nitrogen fixation.

**Plant growth and development-** Phases of Growth & development dynamic of growth hormones, seed dormancy, physiology of flowering and seed germination & factors of their regulation.

**Respiration-** Aerobic & anaerobic respiration Kreb`s cycle, Electron transport mechanism, Oxidative phosphorylation.

**Genetics-** Principles of Inheritance and Variation- Mendelian genetics, Mutation.

**Plant and Environment** – Community environment, Structure, function and dynamics of ecosystems. Applied aspect of ecology including conservation and control of pollution.

## **(General Studies)**

The paper on general studies will include questions concerning the following field of knowledge-

- (1) General Knowledge
- (2) Current events of national and international importance
- (3) History of India
- (4) Geography of India (with special reference to Chhattisgarh)

Click here to find complete Syllabus information of [Chhattisgarh Public Service Commission Exam](#)



(5) Sports.

