

Short Questions Guess Paper for Fsc Part-1 Biology

UNIT 1

- Differentiate b/w population & community.
- How does theory theory differ from law?
- What is integrated disease management?
- Differentiate b/w chemotherapy, radiotherapy & gene therapy.
- What is hydroponic technique? Give its importance.
- Write a note on vaccination.
- Define biome with an example.
- Define phyletic lineage & biodiversity.
- Differentiate b/w deductive reasoning & inductive reasoning.

UNIT 2

- Define biochemistry.
- Give its importance.
- Differentiate b/w glycosidic & peptide bond.
- Define lipids.
- Give two roles of waxes Differentiated b/w saturated & unsaturated fatty acid.
- Give the structure of lecithin.

UNIT 3

- What is the active site of an enzyme?
 - Differentiate b/w apoenzyme & holoenzyme.
 - What are cofactor & activator of enzyme?
 - How does an enzyme accelerate a metabolic reaction?
 - Write four characteristics of enzymes.
 - What is induced fit model? Who proposed this model?
 - How does high temperature affect enzyme activities?
 - What is the role of pH in enzyme action?
 - Give optimum pH values for any two enzyme actions?
 - What are enzyme inhibitors? Give two examples.
 - Differentiate b/w reversible & irreversible enzyme inhibitors.
 - Differentiate b/w competitive & non-competitive enzyme inhibitors?
-
- Write down salient features of cell theory.
 - Differentiate bw phagocytosis & pinocytosis.

- **UNIT 4**

- Give chemical composition of primary & secondary cell wall.
- Give three functions of smooth endoplasmic reticulum.
- Define storage diseases with two examples.
- What is location of centrioles in the cell & what is their role?
- Differentiate b/w chromoplasts & leucoplasts.
- Differentiate b/w cisternae & cristae.
- What are peroxisome, polysome & ribosome?

UNIT 5

- Define species & virology with examples.
- Give biological classification of corn.
- What is binomial nomenclature?
- What are two rules of nomenclature?
- What are prions?
- Differentiate b/w lytic phage & lysogenic phage.
- Write down symptoms & prevention of hepatitis?

UNIT 6

- Write four postulates of germ theory.
- What are mesosomes?
- Describe their function.
- Write misuse of antibiotics.
- What are trichomes?
- Give the structure & function of Heterocysts?
- What are super blue-green algae?
- Give its importance.

UNIT 7

- What are choanoflagellates?
- What are tritonymphs?
- Give their importance.
- Write two characteristics of ciliates.
- Differentiate b/w micronucleus & macronucleus.
- Differentiate b/w foraminifera & actinopods.
- What are apicomplexans?
- Give one example.
- How algae differ from plants?
- What are red tides?

- Give structure & function of diatoms.
- Also write three characteristics of diatoms.
- What are kelps?
- Name the parts of thallus of a kelp.
- Green algae are considered ancestral organism of green land plants, why?
- What is chlorella?
- Give its significance.
- What is importance of algae?

UNIT 8

- What are lichens?
- Give their ecological importance.
- Differentiate b/w karyogamy & plasmogamy.
- Differentiate b/w rusts & smuts.
- What is budding & para sexuality?
- What are toad stools? Give example.
- What is histoplasmosis? Give its causes.
- Give scientific name of yeast used in genetic research.
- Define hyphae. Give their two types.
- What is mycorrhiza?
- Give its importance What are dikaryotic hyphae? Give example

UNIT 9

- Why bryophytes plants are called amphibious plants?
- How spores of mosses differ from spores of liver worts?
- What is alternation of generation?
- Give its significance.
- Why sphenopsida are called arthropytes?
- Differentiate b/w microphylls & megaphylls.
- Define double fertilization in angiosperms.
- Give its importance.
- Differentiate b/w monocot stem & dicot stem.

UNIT 10

- Write the importance of sponges.
- Define polymorphism with example.
- Write down the importance of corals.
- Differentiate b/w infestation & disinfestations.
- Write names and uses of any two useful insects.

- Define nymph & metamorphosis.
- Give three characteristics of chordates.
- Give the role of swim bladder in bony fishes.
- Give two commercial importance of sharks.
- Define regeneration & maderporite.
- Write names and harms of any two harmful molluscus.
- Differentiate b/w polyps & medusae.
- Differentiate b/w coelmates & acoelomates.
- Differentiate b/w diploblastia & triploblastic animals.

UNIT 11

- Define bioenergetics
- Differentiate bw photosynthesis & respiration.
- Define photosynthesis with equation.
- What is compensation point? Where it occurs?
- Write down the molecular formula for chlorophyll "a" and b".
- What are necessary pigments in plants? Give their importance.
- Differentiate b/w absorption & action spectrum.
- Differentiate b/w photosystem and photosystem
- What is Z-scheme? Why is it called so?
- What is fermentation? Explain its types.

UNIT 12

- Distinguish b/w nutrients & nutrition.
- Write components & functions of saliva.
- Name various types of the salivary gland in man.
- Differentiate b/w peristalsis & anti-peristalsis.
- How hunger pangs are caused?
- What is heart burn or pyrosis?
- Name types of cells present in gastric glands.
- What prevents the wall of stomach from being digested?
- How secretion is produced in man?
- What is its effects on pancreas in man?
- What is the role of liver in the digestion of food?

UNIT 13

- Differentiate b/w organismic and cellular respiration?
- How is air better respiratory medium than water?
- What is photorespiration?
- Name organelles involved in it.
- Write the names of its products.
- What is rubisco.
- Write its importance.
- Define respiratory surface.
- Give three properties.
- Differentiate b/w cutaneous & pulmonary respiration in frog.
- What are counter current exchange and parabronchi?
- Differentiate b/w diaphragm and pleura.
- Name some respiratory disorder and explain one.
- What is emphysema? Write its symptoms.
- What is diving reflex?
- What changes occur in animal during diving reflex.

UNIT 14

- Differentiate b/w water potential & solute potential.
- Differentiate b/w plasmolysis & deplasmolysis.
- Differentiate b/w apoplast & symplast pathway.
- Differentiate b/w single & double circuit heart.
- What are blue babies?
- What is brain hemorrhage?
- Give its two preventive measures.