

HSSC-I Examination
Biology Guess Question Paper
Chapter 05, 06, 07 and 08

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SECTION – A

Time allowed: 25 minutes

Marks: 17

Note: Section-A is compulsory. All parts of this section are to be answered on the question paper itself. It should be completed in the first 25 minutes and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. Do not use lead pencil.

Q.1: Circle the correct option i.e. A / B / C / D. Each part carries one mark. (/17)

(i). Only human disease known to be caused by a viroid is:

- (a) vit A (b) vit B (c) vit D (d) vit C

(ii). Scientist that discovered tobacco mosaic virus:

- (a) Charles Chamberlain
(b) Iwanowsky
(c) W M Stanley
(d) none

(iii). Which of the following has dsRNA:

- (a) diarrhea (b) mild rash
(c) rubella (d) small pox

(iv). HIV attacks:

- (a) T4 cells (b) CD4 cells
(c) T lymphocytes (d) All of the above

(v). polio affects:

- (a) sensory nerve (b) spinal cord (c) motor nerve (d) legs

(vi). Which of the following is caused by a retrovirus:

- (a) malaria (b) typhoid (c) Hepatitis (d) AIDS

(vii). Cell wall of bacteria is made up of:

- (a) peptidoglycan (b) murien
(c) mucopeptide (d) all of the above

(viii). phycocyanin is a ____ pigment

- (a) blue (b) pink (c) green (d) colourless

(ix). bacteria with flagella randomly arising over the entire surface:

- (a) amphitrichous (b) peritrichous
(c) lophotrichous (d) amphitrichous

(x). _____ are usually non motile:

- (a) cocci (b) bacilli (c) spherical bacteria (d) both a and c

(xi). sex pilus is formed in:

- (a) conjugation (b) transduction
(c) transformation (d) binary fission

(xii). _____ is a serious infection caused by inhaling spores of soil fungus:

- (a) ergotism (b) histoplasmosis (c) candidiasis (d) None of these

(xiii). Lycopodium belongs to group

- (a) psilopsida (b) lycopsida (c) sphenopsida (d) pteropsida

(xiv). _____ is an ornamental plant.

- (a) lycopodium (b) ferns (c) rhynia (d) equisetum

(xv). Which of the following shows cymose inflorescence:

- (a) brassica (b) dianthus (c) amaranthus (d) rice

(xvi). gymnosperms are characterized as

- (a) naked seeds (b) winged seeds
(c) multiflagellated sperms (d) seeds inside fruits

(xvii). Which of the following has chl a and c with carotenoids

- (a) red algae (b) green algae (c) brown algae (d) none of the above

For Examiner's use only:

Total Marks:

17

Marks Obtained:

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Note: Attempt all the parts from Section 'B' and attempt all questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 42)

Q2: Attempt All of the following questions. (14 x 3 = 42)

(i). Define species & virology with examples.

(OR)

Write four postulates of germ theory

(ii). Give biological classification of corn.

(OR)

What are mesosomes?.

(iii). What are prions?

(OR)

Describe the function of mesosomes.

(iv). Write down symptoms & prevention of hepatitis?

(OR)

Write misuse of antibiotics.

(v). Describe the classification of viruses.

(OR)

Describe the structure of bacteriophage

(vi). Describe the infection process.

(OR)

Differentiate between bacteria and archaea

(vii). Describe bacterial genome

(OR)

Differentiate between photoautotrophs and chemoautotrophs.

(viii). Describe mutualistic fungi: lichen and mycorrhizae.

(OR)

What are the general characteristics of bryophytes?

(ix). Describe Basidiomycota.

(OR)

Describe psilopsida.

(x). Tell the use of fungi in genetic research

(OR)

Describe club mosses

(xi). Describe the role of fungi in diseases.

(OR)

Differentiate between dicots and monocots

(xii) Describe myxomycota

(OR)

Describe inflorescence

(xiii) What are the physical methods to control bacteria

(OR)

Describe angiosperms

(xiv) Differentiate between prions and viroids.

(OR)

Describe the evolution of pollen tube.

SECTION C (Marks 26)

Note: Attempt any TWO questions. All questions carry equal marks. (13 × 2 = 26)

Q3. Describe life cycle of a bacteriophage.

(OR)

How HIV is transmitted? Give a sketch of the infection cycle of HIV?

Q4. Give adaptations of fungi on land.

(OR)

Describe land adaptations of bryophytes

Q5. Discuss different methods of asexual reproduction in fungi.

(OR)

Describe different classes of bacteria on the basis of flagella.

Q6. Write four economic gains & losses due to fungi.

(OR)

Describe the life cycle of funaria

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