



Estd. 1861

**BOYS' HIGH SCHOOL AND COLLEGE**  
**THIRD TERM EXAMINATION (2023-24)**  
**BIOLOGY (SCIENCE PAPER – 3)**  
**CLASS – IX**

**Time: 2 Hours**

**MM:80**

*Section A is compulsory. Attempt any four questions from Section B.  
The intended marks for questions or parts of questions are given in brackets.*

**SECTION A (40 Marks)**

*(Attempt all questions from this section)*

**Question 1**

Select the correct answers to the questions from the given options.  
(Do not copy the question write the correct answer only)

- (i) The lowest level in biological classification is:
  - (a) Genus
  - (b) Species
  - (c) Family
  - (d) Phylum
- (ii) Which of the following reproduce only inside the cells of the host?
  - (a) Fungi
  - (b) Protozoa
  - (c) Virus
  - (d) Bacteria
- (iii) A plant cell can be identified from an animal cell by:
  - (a) Absence of centrosome
  - (b) Presence of cell membrane
  - (c) Presence of vacuoles
  - (d) None of these
- (iv) The germ causing Hepatitis is transmitted through:
  - (a) Bite of a mosquito
  - (b) Contamination of food by housefly
  - (c) Contaminated water
  - (d) Personal contact
- (v) A vaccine made with living fully poisonous germ is:
  - (a) TAB vaccine
  - (b) Small pox vaccine
  - (c) BCG vaccine
  - (d) Salk's vaccine
- (vi) Which of the given organ is affected by tuberculosis?
  - (a) Liver
  - (b) Lung
  - (c) Stomach
  - (d) Intestine
- (vii) Coelenteron is a cavity inside an animal belonging to the phylum:
  - (a) Cnidaria
  - (b) Nematoda
  - (c) Porifera
  - (d) Annelida
- (viii) Ascariasis is caused by:
  - (a) Roundworm
  - (b) Tapeworm
  - (c) Fungi
  - (d) Ringed worms
- (ix) World Health-day is celebrated on:
  - (a) 7<sup>th</sup> July
  - (b) 1<sup>st</sup> May
  - (c) 7<sup>th</sup> April
  - (d) 22<sup>nd</sup> January
- (x) The most convenient reusable waste is:
  - (a) Fly ash
  - (b) Broken glass
  - (c) Medical instrument
  - (d) Old newspapers
- (xi) Which of the following class of animals have a four chambered heart?
  - (a) Pisces
  - (b) Aves
  - (c) Amphibia
  - (d) Reptilia
- (xii) 'T' in DPT vaccination stands for:
  - (a) Tuberculosis
  - (b) Tetanus
  - (c) Typhoid
  - (d) Tonsilitis

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- (xiii) Which of the following vector is responsible for dengue?  
 (a) Anopheles mosquito (c) Aedes mosquito  
 (b) Culex mosquito (d) Tsetse fly
- (xiv) Sewage water is purified by:  
 (a) Microorganisms (c) Light  
 (b) Fishes (d) Aquatic plants
- (xv) Which of the following is mismatched?  
 (a) Fungi---Yeast (c) Plantae---Bryophyta  
 (b) Protista----Paramecium (d) Animalia----Euglena

**Question 2**

- (i) **Give appropriate biological/ technical terms for the following:**  
 (a) The degradation involving activity of microorganisms.  
 (b) The process by which white blood cells engulf bacteria.  
 (c) The colourless plastids which help to store food.  
 (d) Organisms with a cylindrical, segmented body and with a coelom.  
 (e) A machine that separates suspended wastes by using electric field.
- (ii) **Choose the odd one out and name the category to which the others belong:**  
 (a) Sepia, Slug, Octopus, Sycon  
 (b) Pesticides, Old computer, Tissue paper, Electric toys  
 (c) Saliva, Water, Sweat, Tears  
 (d) Cresol, Phenol, Iodine, DDT  
 (e) Hepatitis, Cholera, Chicken pox, AIDS
- (iii) **Correct the given statements by changing the underlined words:**  
 (a) Disinfectants are mild chemical substances applied on the body to kill germs.  
 (b) Unicellular prokaryotic organisms belong to the kingdom Fungi.  
 (c) BCG vaccine is used against poliomyelitis  
 (d) The outer layer of the human skin is made of chitin.  
 (e) Tentacles are part of the reproductive system of earthworms.

- (iv) **Match the column:**

Column A	Column B
1. Herpes virus	a. Dysentery
2. Rat flea	b. Mosquito larvae
3. Culex	c. Chicken pox
4. Housefly	d. Plague
5. Gambusia	e. Elephantiasis

- (v) **Give two examples of each of the following:**  
 (a) Water-borne disease  
 (b) Vector  
 (c) Prokaryotic cell  
 (d) Agricultural waste  
 (e) Killed germ vaccine

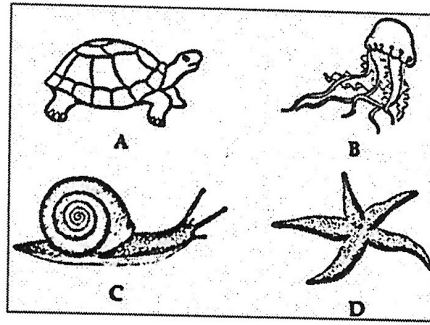
**SECTION B (40 Marks)**

*(Attempt any four questions from this section)*

**Question 3**

- (a) Expand the following terms: [1]  
 i. TAB ii. HIV
- (b) What is sewage? How are they disposed of? [2]
- (c) Differentiate between the following pairs: [2]  
 i. Endemic disease and Pandemic disease  
 ii. Innate immunity and Acquired immunity
- (d) List two main activities of the Red Cross. [2]

- (e) Study the four organisms given below and answer the questions: [3]
- Name and write the phylum of the animals labelled as A, B, C and D.
  - Write one distinguishing feature of the animals of the phylum C and D.

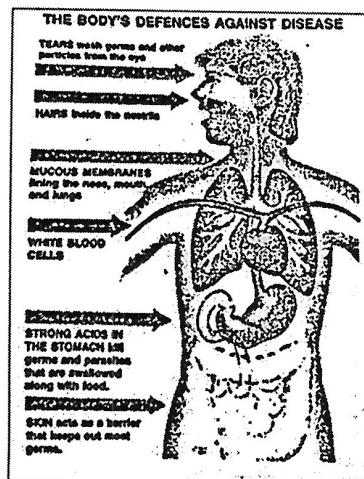


**Question 4**

- What is Immunization? [1]
- Rearrange the following in a correct sequence: [2]
  - Genus, kingdom, order, phylum, family
  - Cytoplasm, cell membrane, cell wall, nucleolus, nucleus
- Explain the following terms: [2]
  - Biodegradable waste
  - Scrubber
- Define chordates and write their classes? [2]
- Draw a neat labelled diagram of the plant cell and label the following organelles: [3]  
Cell wall, Nucleus, Chloroplast, Mitochondria Cytoplasm and Vacuole.

**Question 5**

- Why are bats considered as mammals not birds? [1]
- Write the causative agent and symptoms for the following [2]  
diseases:
  - Filariasis
  - Cholera
- What are the objectives and functions of WHO? [2]
- Draw a well labelled diagram of the earthworm. [2]
- Look at the figure given below and answer the questions given: [3]



- What are the merits of the local defence system.
- How do white blood cells defend the body against diseases?
- How does mucous membranes prevent the entry of germs in the body tissues?

**Question 6**

- Fill in the blanks: [1]
 

i.	Supportive framework of the cell.
ii. Lysosome	
- Give biological explanation for the following: [2]
  - Earthworms are very useful in agriculture.
  - It is important to dispose of e-waste properly.

