



# BIOLOGY

## BOOKS - VIKRAM PUBLICATION ( ANDHRA PUBLICATION)

### BIOLOGY IN HUMAN WELFARE

#### Very Short Answer Type Questions

1. Define parasitism and justify this term.



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2. Distinguish between vector and a reservoir host.



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3. Distinguish between mechanical vector and biological vector. - Mechanical vector.



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4. What is a hyper parasite ?Mention the name of one hyper parasite.



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5. What do you mean by parasitic castration ?

Give one example.



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6. What are the endo-parasitic adaptations observed in *Fasciola hepatica* ?



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7. Define Neoplasia. Give one example.



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8. Define the most accurate definition of the term 'health' and write any two factors that

affect the health.



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9. Distinguish between infectious and non-infectious diseases. Give two examples each.



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10. *Entamoeba histolytica* is an obligatory anaerobe justify.



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**11.** Distinguish between precystic stage and cystic stage of *E.histolytica*.



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**12.** What is the reserve food in the precystic and early cyst stages of *Entamoeba histolytica*?



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**13.** A person is suffering from bowel irregularity, abdominal pain, blood and mucus in stool, etc. Based on these symptoms, name the disease and its causative organism.



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**14.** On the advice of a doctor, a patient has gone to a clinical laboratory for the examination of a sample of faeces. The lab technician, or observing the stool of the patient diagnosed that the patient was

suffering from amoebiasis. Write any two characteristic features based on which the technician came to that conclusion.



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**15.** Define 'asymptomatic cyst passers' with reference to *Entamoeba histolytica*.



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**16.** What are the stages of plasmodium vivax that infect that hepatocytes of man?



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**17.** Define the prepatent period. What is its duration in the life cycle of plasmodium vivax.



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**18.** Define incubation period. What is its duration in the life cycle of Plasmodium vivax.



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**19.** What are Schuffner's dots ? What is their significance ?



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**20.** What are haemozoin granules ? What is their significance ?



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**21.** What is exflagellation and what are the resultant products called ?



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**22.** Why is the syngamy found in plasmodium called anisogamy ?



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**23.** . What is Ookinete ? Based on the sets of chromosomes how do you describe it



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24. A person is suffering from chills and shivering and high temperature. These symptoms are cyclically followed by profuse sweating and return to normal body temperature. Based on these symptoms name the disease and its causative organism.



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25. Describe the methods of biological control of mosquitoes.





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26. The eggs of *Ascaris* are called 'mammillated eggs'. Justify it.



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27. What is meant by nocturnal periodicity with reference to the life history of a nematode parasite you have studied ?



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**28.** Distinguish between lymphadenitis and lymphangitis.



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**29.** 'Elephantiasis is the terminal condition of filariasis'. Justify.



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**30.** In which way does tobacco affect the respiration? Name the alkaloid found in tobacco.



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**31.** Define drug abuse.



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**32.** From which substances 'Smack' and 'Coke' are obtained ?



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**33.** Many secondary metabolites of plants, have medicinal properties. It is their misuse that creates problems justify the statement with an example.



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**34.** Why are cannabinoids and anabolic steroids banned in sports and games?



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**35.** Mention the names of any four drugs which are used as medicines to treat patients with mental illness like depression, insomnia etc., that are often abused.



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## Short Answer Type Questions

1. What is the need for parasites to develop special adaptations ? Mention some special adaptations developed by the parasites.



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2. Distinguish between hypertrophy and hyperplasia with an example for each.



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3. Describe the structure of a trophozoite of *Entamoeba histolytica*?



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4. Reserve food in the cystic form of *Entamoeba histolytica* is in the form of



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5. Write a short note on the pathogenicity of *Entamoeba histolytica* ?



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6. Describe the structure of sporozoite of *Plasmodium vivax*.



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7. Describe the cycle of Golgi in the life history of Plasmodium Vivax ?



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8. Which of the following is affected by the infection of Wuchereria bancrofti?



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**9.** Write short notes on typhoid fever and its prophylaxis.



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**10.** Write short notes on Pneumonia and its prophylaxis.



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**11.** Write short notes on common cold and its prophylaxis..



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**12.** Write short notes on 'ringworm and its prophylaxis.



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**13.** What are the adverse effects of tobacco ?





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**14.** Write short notes on opioids.



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**15.** Write short notes on Cannabinoids.



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**16.** Write short notes on Cocaine.



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17. Why the adolescence is considered vulnerable phase ?



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18. Distinguish between addiction and dependence.



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**19.** Prevention is better than cure' justify with regard to TDA abuse.



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## Long Answer Type Questions

**1.** Explain the structure and life cycle of *Entamoeba histolytica* with the help of neat and labelled diagrams?



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2. Describe life cycle of plasmodium vivax in man ?



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3. Describe the life cycle of plasmodium vivax in mosquito ?



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4. Describe the structure and life cycle of *Ascaris lumbricoides* with the help of a neat and labelled diagram.



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5. Describe the life cycle of *wucheria bancrofti*.



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**Important Questions**

1. What is hyper parasite ? Mention the name of one hyper parasite.



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**8.** What are the adverse effects of tobacco ?



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**9.** Write short notes on Cocaine.



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**10.** Define the prepatent period. What is its duration in the life cycle of plasmodium vivax.



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