

**B. Sc. DEGREE EXAMINATION, APRIL 2012**

**BRANCH V.A. – PLANT BIOLOGY & PLANT BIOTECHNOLOGY**  
**SECOND SEMESTER**

**COURSE : ALLIED – CORE**  
**PAPER : GENERAL ZOOLOGY – II**  
**TIME : 3 HOURS** **MAX.MARKS: 100**

**SECTION-A**

**ANSWER ALL QUESTIONS**

(10x3=30)

**1. FILL IN THE BLANKS**

- a) The study and management of honeybees is called \_\_\_\_\_.
- b) Yolk is concentrated in the vegetal pole in \_\_\_\_\_ egg.
- c) The preferred food of silkworm is \_\_\_\_\_.
- d) Amoebic dysentery is caused by \_\_\_\_\_.
- e) Incompatibility of Rh factor results in \_\_\_\_\_.
- f) Malarial parasite is transmitted by \_\_\_\_\_.

**2. DIFFERENTIATE BETWEEN**

- a) Pupa and Imago.
- b) Nursery pond and Rearing pond.

**3. NAME THE CAUSATIVE AGENT OF**

- a) Elephantiasis      b) Tetanus      c) AIDS

**4. GIVE THE FUNCTION OF**

- a) Spinneret      b) Royal Jelly      c) Happa

**5. STATE WHETHER TRUE OR FALSE**

- a) The cavity formed during blastulation is called blastocoel.
- b) Universal recipients belong to Blood group 'O'.
- c) Pinworm is the common name for *Ancylostoma*.
- d) Pavlov worked on conditioned reflex in dogs.
- e) The study of animal behaviour is called ethology.
- f) Huntington's disease is a neurodegenerative genetic disorder.

6. List the uses of silk.
7. EXPAND:  
 a) HIV                      b) BCG                      c) DPT
8. Name any three viral diseases.
9. List the symptoms of Tuberculosis.
10. MATCH THE FOLLOWING
- |                           |                |
|---------------------------|----------------|
| a) Hepatitis              | Exotic carp    |
| b) <i>Cyprinus carpio</i> | Trisomy 21     |
| c) Steptoe & Edwards      | Pertussis      |
| d) Down's syndrome        | Jaundice       |
| e) Whooping cough         | Birds          |
| f) Cleidoic egg           | Test tube baby |

### **SECTION-B**

#### **ANSWER ANY FIVE QUESTIONS**

**(5x6=30)**

[Draw diagrams wherever necessary]

11. Explain the structure of honey bee colony.
12. Describe the mode of transmission and symptoms of cholera.
13. Describe the structure of *Entamoeba* trophozoite and cyst.
14. Classify placenta based on histology.
15. Outline the types of behaviour.
16. Comment on Kearns-Sayre syndrome.
17. Describe the abnormal behaviour seen in zoo animals.

### **SECTION-C**

#### **ANSWER ANY TWO QUESTIONS**

**(2x20=40)**

[Draw diagrams wherever necessary]

18. Describe culture and management of *Catla catla*.
19. Discuss ABO blood group inheritance in man. Add a note on its applications.
20. Give a detailed account of transmission, symptoms, diagnosis and control of AIDS.
21. Write an essay on Assisted Reproductive Technology. Add a note on bioethical issues.

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