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**B. Voc. (Agri-Business and Agrarian Entrepreneurship)****Third Semester****ASC-305: Hatchery Management****Time allowed: 3 Hours****Max. Marks: 40**

**NOTE:** Attempt five questions in all, including Question No. IX (Unit-V) which is compulsory and selecting one question each from Unit I - IV. Draw neat and labeled diagrams wherever required.

X-X-X

**UNIT – I**

- I. a) Describe the various stages in the development of the embryo.  
b) Give in brief the factors responsible for egg formation. (4,4)
- II. a) Describe the structure of an egg.  
b) Give the characters of good quality hatching eggs? (4,4)

**UNIT – II**

- III. a) How is selection of hatching eggs done?  
b) Discuss the various cleaning and disinfection methods followed in a Hatchery. (4,4)
- IV. a) What are the various kinds of equipment used in hatcheries?  
b) How is storage and transportation of eggs managed? (4,4)

**UNIT – III**

- V. a) Discuss the importance of location and site in setting up a hatchery  
b) How is grading, selection and traying of eggs managed? (4,4)
- VI. a) Briefly describe the various operations of a hatchery.  
b) Give a brief account of holding of chicks and delivery of chicks. (4,4)

**UNIT – IV**

- VII. a) Discuss the various factors that influence the fertility & hatchability of eggs.  
b) What are the characteristics of good litter material (4,4)
- VIII. a) Describe the different methods followed for sanitation of hatchery.  
b) How is the disposal of hatchery waste managed? (4,4)

P.T.O.

(2)

UNIT – V

IX. Attempt the following:-

- a) What is meant by 'Candling'? Give its significance.
- b) How does a developing egg get nutrition?
- c) Give the appropriate conditions needed for hatching of chicks?
- d) Name few diseases common among hatching chicks.

(4x2)

x-x-x