

MAHARASHTRA ANIMAL AND FISHERY SCIENCES UNIVERSITY, NAGPUR
SEMESTER END THEORY EXAMINATION, B.TECH. (D.T.) DEGREE COURSE 2017-18

Semester : **I (V Dean)**
Course No. : **DBM-101**

Academic Year : **2017-2018**
Course Title : **Milk Production
Management and Dairy
Development**

Credits : **2+1=3**

Total Marks : **50**

Day & Date : **Friday, 05.01.2018**

Time : **11.00 to 13.00**

- Note :**
- 1) All questions from **Section 'A'** are compulsory.
 - 2) Solve **Any Three** questions from **Section 'B'**.
 - 3) Draw neat and well labelled diagram wherever necessary.

SECTION - 'A'

Q. 1. A) Choose the most appropriate answer from the options given below. (05)

- i) Feeds such as grains, oilcakes, grain by products etc, that contain less than 18% crude fibre are known as?
a) Energy feeds b) Roughages
~~c) Concentrates~~ d) All of these
- ii) The total amount of feed that an animal is offered during a 24 hour period of time is termed as?
~~a) Ration~~ b) Roughage
c) Production ration d) Best Feed
- iii) The graphical representation of the rate of milk secretion during lactation is called
a) Production Curve ~~b) Milk Curve~~
c) All of these ~~d) Lactation Curve~~
- iv) Among Indian cattle breeds classification, which of the following is not dual purpose breed?
a) Ongole ~~b) Sahiwal~~
c) Kankrej d) Tharparkar
- v) The cross bred females obtained by crossing two breeds is termed as
~~a) Rotational crossing~~ b) Cross breeding
c) Back crossing d) All of these

B) Define the following. (05)

- i) Breeding
- ii) Estrous cycle
- iii) Artificial Insemination
- iv) Parturition
- v) Exotic breeds

Q. 2 A) Answer in one line. (05)

- i) Name the instrument which is used for castration.
- ii) What is weaning?
- iii) State the special characteristics of colostrums.
- iv) Give any two example of concentrate.
- v) What is dam?

(P.T.O.)

- B) State whether True or False. If false, rewrite the statement after making necessary corrections. (05)
- i) Breeding systems are developed for improving the performance of dairy animals in terms of growth, production and reproduction.
 - ii) Mastitis is common diseases caused by Viruses.
 - iii) Bloat is a metabolic disorder due to disturbance in carbohydrate metabolism.
 - iv) Stripping consists of firmly seizing the teat at its base between the thumb and forefinger and drawing them down.
 - v) In tail to tail system of arrangements of animals, lesser possibility of spread of diseases from animal to animal.

SECTION - 'B'

- Q. 3 A) Discuss various general dairy farm practices which are generally followed in organized dairy farm. (05)
- B) Explain the specific features and problems of Indian dairying. (05)
- Q. 4 A) Write an explanatory note on "care and management of neonates". (05)
- B) Explain the importance of Artificial Insemination over natural services. (05)
- Q. 5 A) Explain female reproductive system with figure. (03)
- B) Describe different milking methods of animal. (03)
- C) State the methods of identification of farm animals. (04)
- Q. 6 A) Write the functions of mammary system with labeled diagram of mammary glands. (03)
- B) Write a note on dairy farm record maintenance. (03)
- C) Write clinical symptoms of any four viral diseases or bacterial diseases of dairy animals. (04)
- Q. 7 Classify the cattle breeds on the basis of their utilities. (10)
