

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

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

Academic Year : 2021-2022
Course Title : **Milk Production
Management Dairy
Development**

Credits : 2+1=3
Day & Date : Wednesday, 04/05/2022

Total Marks : 50
Time : 2.30 hrs.

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

SECTION - 'A'

Q. 1 A) Choose and indicate the most appropriate answer for the following. (05)

- i) Which one is not an exotic cattle breed?
 - a) Guernsey
 - b) Red Dane
 - c) Ayrshire
 - d) Red Sindhi
- ii) The native place of shahiwal breed of cow is
 - a) Karachi in Pakistan
 - b) Montogemery district of Pakistan
 - c) Haryana
 - d) Sholapur district of Maharashtra
- iii) Gestation period of Pandharpuri buffalo
 - a) 340
 - b) 295
 - c) 310
 - d) 380
- iv) Scientific name of Humpless cow
 - a) *B. bubalis*
 - b) *B. carabensis*
 - c) *B. indicus*
 - d) *B. taurus*
- v) Crossing of individuals from two species is referred as
 - a) Inbreeding
 - b) Out breeding
 - c) Species hybridization
 - d) Grading up

B) Define the following: (05)

- i) Animal Husbandry
- ii) Castration
- iii) Parturition
- iv) Fertilization
- v) Puberty

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

- i) Name the instrument which is used for castration.
- ii) Name of the hormone responsible for the letting down of milk.
- iii) Name chemical which is used for dehorning.
- iv) State methods of identification of animals.
- v) Why milk color of jersey cow is yellow.

- B) State whether True or False. If false, rewrite the statement after making necessary corrections. (05)
- i) Jaffarabadi buffalo is the heaviest breed of buffaloes in the world.
 - ii) Reticulum is largest component of stomach in ruminants.
 - iii) Bullock is an adult uncastrated male ox over two years of age.
 - iv) Roughages contain high percent of protein.
 - v) Muzzle area of animal is dry when animal is unhealthy.

SECTION – 'B'

- Q. 3 a) Classify the cattle breeds on the basis of their utilities. (05)
b) Write detail classification of feed and fodders. (05)
- Q. 4 a) Discuss different types of breeding system of dairy cattle. (05)
b) Why we use various identification methods in dairy animals? Write all identification method with their advantage and disadvantage. (05)
- Q. 5 a) Explain the housing systems of dairy animals. (03)
b) Write a short note on management of lactating buffalo. (03)
c) Discuss various methods of milking with suitable diagram. (04)
- Q. 6 a) Write a short note on clean milk production. (03)
b) Draw the diagram of male reproductive system and explain all its parts briefly. (03)
c) Explain the scope and importance of animal husbandry in economic development of India. (04)
- Q. 7 What is Artificial Insemination? Explain the Artificial Insemination Technique and write the advantages and disadvantage of AI. (10)
