

PARUL UNIVERSITY
FACULTY OF AGRICULTURE
B.Tech. (Agriculture/Dairy Technology) Winter 2019 - 20 Examination

Semester: 1

Date: 3/12/2019

Subject Code: 20104107

Time: 10:30am to 12:30pm

Subject Name: Milk Production Management & Dairy Development

Total Marks: 50

Instructions

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1**A) Fill in the blanks (Each of 0.5 Mark) (05)**

- i) A tightly curved horn is typical feature of ----- breed of buffalo.
- ii) is safest method of milking..
- iii) A system of breeding between very closely related animals is called as.....
- iv) Canine/incisor teeth present in -----jaw of cattle
- v) Gestation period of Gir cow is.....
- vi) Main two types of milking are and
- vii) Milk replacer given to calves in the..... form.
- viii) Estrus cycle has totalphages.
- ix) India ranks in total milk production in world.
- x) The time interval between parturition of the cow to the date of next calving is called

B) Multiple Choice Questions (Each of 0.5 Mark) (10)

- i) Female calf above one year old and not yet bred is called as
a) open animal b) Stud animal c) heifer d) Cow
- ii) Hump is absent incattle.
a) Indian cattle b) Buffaloes c) gir cows d) exotic
- iii) House of cattle and buffalo is called.....
a) Shed b) barn c) byre d) all of these
- iv) is the bull who is maintained for heat detection on farm.
a) pedigree bull b) bull c) Teasure bull d) stud bull
- v) Sickle shaped horns is the feature ofbreed.
a) Murrah b) Jersey c) Mehsana d) Surti
- vi) Removal of internal parasites of animals by using medicine is called as.....
a) casting b) deworming c) drenching d) treatment
- vii) Body weight of cow heifer to attend maturity will be.....
a) 150 kg b) 75kg c) 350 kg d) 250kg
- viii) A male calf under one year age is called as.....
a) bull calf b) bull c) breeding bull d) heifer
- ix) Letting down of milk is affected by.....
a) oxytocin b) growth hormone c) Estrogen d) L.H.
- x) Mating of unrelated purebred animals within the same breed is called as.....
a) out crossing b) cross breeding c) Grading up d) inbreeding
- xi) Best method of hand milking.....
a) stripping b) None of these c) knuckling d) full hand
- xii) General dairy farm practices includes.....
a) tagging b) castration c) weighing d) all of these
- xiii) In calving pen each adult animal requires.....sq.ft. Area/floor space.
a) 100sq. ft. b) 200 sq.ft. c) 100-150 sq.ft. d) 100 m.sq.

- xiv) Feedstuffs are oftypes
 a) two b) Three c) four d) Six
- xv) Legumionous fodders are rich in.....
 a)Carbohydrates b) protein c)crude fibre d) fat
- xvi) Milk mirror of cow is.....
 a) Udder size b) milk vein c) abdominal size d)teat size
- xvii) Vaccination is necessary against the diseases of cattle & buffaloes are.....
 a) H.S. B) B.Q. c) F.M.D. d) all of these
- xviii) Best buffalo breed in India for milk fat % is.....
 a) Pandharpuri b)Surti c) Jaffrabadi d)Murrah
- xix) Feeds that contain more than 18% crude fibre and less than 60% TDN are called such as grains, oilcakes, grain by products etc.
 a)roughage b) feed suppliments c)feed additives d)concentrates
- xx) Kellner feeding standard istype of feeding standard
 a)comparative b) digestible c)productive d)none of these

Q.2

A) Define the following (Any five out of seven questions) (05)

- (1) Tattooing
- (2) Casting
- (3) Artificial insemination
- (4) Intercalving period
- (5) Back crossing
- (6) Animal Husbandry
- (7) Embryo transfer

B) Answer the following (Any five out of seven questions) (05)

- (1) Which breed of cow is originated from Holland?
- (2) What is milk mirror?
- (3) What is the recent per capita per day availability of milk in India?
- (4) Milk fat percentage is depending upon?
- (5) Which nutrient contributes the SNF in milk?
- (6) What is meant by selection?
- (7) Enlist the parts of digestive system of cow.

Q.3 Write Short notes (Any five out of six questions) (10)

- (1) What care of neonate to be taken immediate after calving?
- (2) Dairy farm records & their maintenance.
- (3) What is outbreeding ?and describe species hybridization.
- (4) Describe Multiple ovulation embryo transfer.
- (5) Write the signs of parturition.
- (6) Write in short about Digestive type feeding standards

Q.4 Long Questions (Any three out of four questions) (15)

- (1) Write in detail about artificial insemination in dairy animals.
- (2) Explain loose housing systems of animals.
- (3) Write in detail about clean milk production.
- (4) Enlist the methods of hand milking and explain in detail about machine milking.