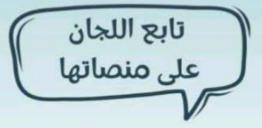




تغذية أبقار الحليب

سنوات فاينل

اللجان الطلابية-كلية الزراعة الجامعة الأردنية





















اللجان الطلابية تتمنى لكم دراسة موفقة

Dairy Cattle Production 602215 (Make up Final Exam, 80 points) partment of Animal Production sool of Agriculture te: July 5th, 2023 Name ID# .. Choose ONE best answer: (40 P) ----- 1. Bacteria provide a very high-quality type of this macronutrient for the ruminant bost: (a) Vitamin Z (b) Protein (c) Water (d) Carbohydrate 2. Milk yield is primarily determined by the synthesis of this milk component: (b) Urea (C) Lactose (d) Protein ----- 3. The primary difference between ruminants and monogastric animals regarding arbohydrate digestion is: N Both extensively utilize pre-gastric fermentation B) Both extensively utilize post-gastric fermentation Monogastrics have more pancreatic amylase and more glucose absorption in the small D) Biohydrogenation 4. Feeding ruminants a high concentrate diet can sometimes cause rumen acidosis. (a) True (b) False -5. Which of the following is NOT a function of saliva in ruminants? A) Provides 70% of water in the rumen. (B) Source of salivary amylase. C) Lubrication D) Bicarbonate for buffering of rumen fluid. The abomasum and omasum both synthesize and secret HCl. (a) True (b) False What is the primary structure for prehension in dairy cows? (d) Beak (c) Tongue (b) Lips (a) Teeth t. When a ruminant is unable to eructate, this can occur (d) Laminitis (c) Bloat (a) Acidosis (b) Shingles

	9. Following trigly-ceride hydrolysis in the fumen, the elivered back-bone is (a) Converted to melamine (b) Fermented to VFA (c) Isomerized (d) Biohydrogenated polyunsaturated fatty acids. (a) True (b) False
من داخل	(a) Gluconeogenesis (b) glycolysis (c) Oxidation (d) Hydrogenution (a) True (b) False
ا حش واجَل	13. In ruminant animals, bacteria account for 60-90% of total microbial mass in rumon (b) True (b) False C. 14. What is the compartment of ruminant digestive tract that collects hardware and has a honeycomb like appearance? (a) Omasum (b) Rumen (c) Reticulum (d) Abormanum
	15. The percentage of nitrogen in urea is (a) 54% (b) 16% (c) 4% (d) 45% 16. Which of the following is not one of the immunoglobuling found in colustrum? (a) IgG (b) IgM (c) IgC (d) IgA 17. A cow calving for the third time will produce colostrum that contains a higher percentage fantibodies than a cow calving for the first time.
	(b) False 18. Colostrum is greater in lactose and fat content than whole milk. (a) True (b) False
	L19. Which of the following immunoglobulins is the most prevalent in colostrum and helps wide protection against invading pathogens in newborn calves? (a) IgA (b) IgM (c) IgG (d) IgE
	2

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Q 20 Calau			
quality,	and refractometer are o	msidered the prim	Aty tools for assessing columns
(b) False			my more for discessing columns
dame			
follicular development or	secreted by the <u>anterio</u>	e pituitary and is r	equired for the final stages of
(a) FSII	(b) Estrogen	ge of this hormone (6) Progesteres	MARTINE & PLANSFORCERS OF COLUMNS.
C 22 This hormone	la state de la Maracaca		eased from there and respensible
for water balan	ce in the body?	or pituitary and ret	cased from these and respectables
	Oxytocin (C)	VDH (d) Est	(ogen)
23. This hormone	is secreted from the ov	ary and placents a	and responsible for reliating the
pelvic bones and cervix d	uring parturition.		f) Progesterone
(a) Inhibin	(b) Relaxin		
24. The nervous sys	tem controls the proces	ses which require	more time, while the endocrine
system controls the rapid (a) True	adjustments to change	In the charge	
(b) False			
	system controls the b	ody during stress	, while parasympathetic system
controls the body during (a) True	résL	5	
(b) False			
26. One of the fo	Howing glands is an e	xample of exocri	ine glands.
(a) Sweat (b)	Hypothalamus	(c) Ovary	(d) Testes
The state of the s	following hormones	is responsible fo	r development of the duct system in
the mammary gland?			and the contract of the contra
(a) Prolactin	(b) Estrogen	(e) LH	(d) Progesterone
28. The primary	sion of heat in dairy	ows is.	
(a) hyperactivity	(b) Increase rec	al temperature	© cows stand to be mounted (d) Re
			12 h) after the end of estrus.
(a) True	, Ordinition ortale		
(b) Fales		A The test of the sent	
		Control Control	as the assess in the caping of the for
	semination, the inse act.	minator deposi	its the semen in the vagina of the fer
(a) True		1201/2002	
(b) False		and the second	A Security of the second security of the second sec
		THE PARTY OF THE P	

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40. Removal of adrenal gland in animal results in immediate increase in milk yield.

(b) False

on 2: Explain in detail how do ruminants utilize the butyrate?

After butyrate absorbed throug rumen wall to be used by rumen epithelial cells as energy source soil at It will be converted to kertongs (BHBA) very low butyrate level in blood (BHBA) oxidized in Cardiac and skeletal muscle or utilized for fatty acid synthesis to become as fule.

tion 3: Regarding protein metabolism in ruminants, explain in detail the concept of (5 P)

Runivantes Consume nitrogen from protest and as NPN

then get intially breken down by rumen microbs into

NHz to be used by rumen microbs as to synthesize

microbal protein to be digested and Absorped into small

Intestine and the excess ammonia absorped into bloodstrom

to be Transported to the liver to be Converted into urea

this wea have tow both ways exceeding or recycling





n



Question 6. Explain in detail how does the process of milk lettlown start?

by teat stimulation for around loseconds

explacin Released by posterior pitultoury

gland then explacin binds to the Receptors

on Myoepithelial cells located in the surrounding

the alreali then milkdown after the teat

Stimulation for 45-60 seconds.

Question 7. What are the 5 Q's of colostrum management in dairy calves? Mention the recommended guide for each Q?

(5 P

Quality-0>50/11 196 (recomended 150-200 196 at 1st feeding

Quantity - 10-15% of birth weight

Quickness - D within 2-4 hrs.

sQueaky clean - bacterial contamination < 100,000 Cfu/m1

Question 8. List down hormones that are secreted by pituitary glands? (5 P)

- Dgrowth Hormone (GH)

@(TSH) Thyroid-stimulating hormone

(3)(ACTH) adrino cortico tropic hormones

4) FSH

Posterior pitultary:

6 LH

DADH

(prolactin

@oxytocin

7 Endorphins