- 23. At one point in time, a cross between 2 horned Herefords resulted in a polled animal, which is the basis for the Polled Hereford Breed. The polled condition in beef animals is dominant - which means that for a calf to be born polled, at least one of its parents would have to have been polled.....Therefore a polled calf being born from horned parents can only be explained how?
 - a. Tropism
 - b. Evaluation
 - Gene segregation
 - Gene interaction
- 24. Where humans have bred organisms together based on traits we like.
 - a. Evolution
 - b. Natural Selection
 - c. Extinction
 - d. Artificial Selection
- 25. Which statement explains how a population's genetic variability and diversity can be affected by selective breeding?
 - a. Genetic variability and diversity decrease because only select individuals are bred.
 - Genetic variability and diversity increase because only select individuals are bred.
 - Genetic variability increases and diversity decreases because only select individuals are
 - Genetic variability decreases and diversity increases because only select individuals are
- 26. This can be done by adjusting phenotypic measurements for factors that affect the trait Heritability (h2)
 - a. Accuracy of Selection
 - b. Environmental Uniformity
 - Selection intensity (i)
 - d. Response to selection
- 27. Using a dry cow treatment in dairy cows has been shown to:
 - a. cure existing mastitis infections
 - prevent new infections in the dry period
 - increase milk production in the next lactation
 - all of the above
- in nature 28. Milk is the only source of ___
 - a. Calcium
 - b. Phosphorous
 - c. Lactose
 - d. Fatty acids
- 29. According to natural selection, which organisms are most likely to survive?
 - The fastest organisms
 - The biggest organisms
 - The best-adapted organisms
 - The most domesticated organisms

- 30. When humans breed organisms with specific traits to influence the traits of the next generation, it
 - adaptation a.
 - natural breeding b.
 - natural selection
 - d. selective breeding
- 31. What is 1 way selective breeding is DIFFERENT from natural selection?

(Selective breeding is also called artificial selection.)

- a. Selective breeding does not produce any offspring at all.
- Humans, not nature, control reproduction in selective breeding.
- Nature, not humans, controls reproduction in selective breeding.
- d. Animals are the only organisms that can be selectively bred, while both plants and animals can undergo natural selection.
- 32. How are HYBRIDIZATION and INBREEDING similar?
 - a. Both are a form of natural selection.
 - Both are a form of breeding tools gene changes.
 - Both result in no change in genetic traits.
 - Both involve breeding organisms with similar genetic traits.
- 33. Offspring from parents of two different species would be called
 - a hybrid a.
 - b. its own species
 - c. a crossbreed
 - d. mating
- 34. Which of the following is NOT a result of inbreeding?
 - a. surfacing of deleterious gene
 - increase uniformity
 - noticeable improvement of fourth generation
 - reduction in performance
- 35. Which system is the mating of animals of different breeds?
 - grading up a.
 - outbreeding b.
 - inbreeding
 - linebreeding d.
- 36. I am breeding a brahman to an angus...what am I doing?
 - grading up
 - crossbreeding b. .
 - inbreeding C.
 - linebreeding d.
- 37. I am breeding a brother and a sister, what am I doing?
 - incrossbreeding a.
 - close breeding b.
 - inbreeding
 - linebreeding

- 10. What is the most important management practice during dry off for the reduction of foot problems?
 - a. Hoof trimming
 - b. Hoof programing
 - c. Hoof shoeing
 - d. Foot baths
- 11. How long of a dry period should be given to old dairy cows between lactations?
 - a. 40-50 Days
 - b. 45 60 Days
 - c. 25-35 Days
 - d. 24-34 Days
- 12. What is the primary reason for culling of cows from the dairy herd?
 - a. Lameness
 - b. Dystocia
 - c. Hypocalcemia
 - d. Poor reproduction
- 13. What is the term use to measure expected future production of milking cows in the next generation?
 - a. Repeatability
 - b. ERPA
 - c. MPPA
 - d. hereditability
- 14. What are the two important sire selection tools?
 - a. Heritability and repeatability
 - b. Selection index and tandem selection
 - c. Predicted death
 - d. Progeny testing and sib selection
- 15. Livestock today are much more productive than 100 years ago; Animals produce more meat, milk, eggs and wool on less feed. For example, the United States produces 20% of the world's beef with only 7% of the world's cattle. How has American Animal Science sector accomplished this?
 - a. Genetics interactions
 - b. Selective breeding plans
 - c. Environmental improving
 - d. Either environment and genetic improving
- 16. What are livestock breeders doing when they select animals for breeding that will produce offspring with desirable characteristics?
 - a. Applying Genetic Principles of Heredity
 - b. Using environmental improving
 - c. Applying breeding plan
 - d. Appling mating system

- 17. If Taylor (who lives on Shaman Trail and keeps her animals in a heated barn) and John Mac (who lives up Yellow Jacket and keeps his animals in a muddy, outdoor pen) each owned a prized breeding bull and these bulls were genetically identical to one another (they were genetic clones of one another)......but Taylor's bull weighed 2500 pounds, had long, lustrous hair, and exhibited excessive muscling......while John Mac's bull weighed 1500 pounds, had short, fine hair, and little to no muscling......to what could you attribute the differences?
 - a. Genetic environment interaction
 - b. Environment
 - c. Genetic difference
 - d. Evolution
- 18. If Holstein Sire has genes for Black Eyes & Brown Eyes, Black Hair & Red Hair, what is this combination of genes that the sire possesses called?
 - Genotype
 - b. Phenotype
 - c. Selection
 - d. Gene interaction
- 19. In Black Angus cattle, the black color is always expressed if it is present in an animal's genotype. Why is this the case? Because the black allele is what?
 - a. Evolution
 - b. Recessive
 - c. Dominant
 - d. Over dominant
- 20. A roan horse (a horse with red and white hairs) and the same found in shorthorn cattle, these are examples of what kind of genetic dominance because both genes for coat color are equally expressed?
 - a. Codominance
 - b. Over dominance
 - c. Incomplete dominance
 - d. Dominance
- 21. A golden colored calf, out of a Red Angus Cow and a White Charolais Bull is an example of what kind of genetic dominance because neither allele for coat color is dominant over the other?
 - a. Codominance
 - b. Over dominance
 - c. Incomplete dominance
 - d. Dominance
- 22. During meiosis, chromosomes line up together; sometimes they cross over one another and split—which forms new chromosomes with different combinations of genes that WERE not available in the parent's genotype. What is this called?
 - a. Correlation
 - b. Pleiotropy
 - c. Crossover
 - d. Linkage

1729 251



Faculty of Vet. Med.

				4 000			
	Undergraduate Second Semester Exam						
Course c	Course code & 216 / 224, Animal and Poultry Production				on		
name						101	141
Departmen	t	Husbandry	and	Anin	nal	We	aith
		Developme	nt				
Program		Bachelor	in	No	of	Ex.	5
i rogram	i i	Veterinary	Medical	Paper	'S		
		Sciences					
Date		9 / 6 /2021		Time			2h
Marks		25 (50% (of Total M	arks)			



Menofia University

Student name		
Academic number		1 :
Serial number		

All Questions Should be Answered

The real processes of 70 multiple choice questions, worth 4 points each, please fill in answers on bubble sheet provided. (0.357 Mark per point)

Do not write on the exam!

- Choose the correct answer on bubble sheet provided
- what is the most reliable sign of estrus?
 - L Windmind nater cows
 - I Swiller Lot Is
 - manage is tody temperature by 1 °C
 - Summing to be mounted
- I was a me merma length of the VWP?
 - 1 34.9

 - 50 Days
 - . .
- 3. Where ones fertilization of an ovum occur?

 - : Connec

 - . .
- 4. What normore thes the thems normally produce 1" to 18 have after exces"
 - 1 TISHDHILL
 - b. Pregnandune
 - Semanding
 - d. progesterons
- 5. You have a 50 percent conception rate in your herd of 100 cows. How many cows will be bred two or more times?
 - a. 50 Cows
 - b. 55 cows
 - c. 52 Cows
 - d. 25 Cows

- 6. Which of the following is the most important cause of poor reproductive efficiency in dairy cattle?
 - a. Abortion
 - b. Retained Placenta
 - c. Missed estrus
 - d. Uterine infections
- 7. What occurs when the cow ovulates but shows little or no signs of heat?
 - a. Poor reproduction
 - b. Silent heat
 - c. Puberty
 - d. Maturity
- 8. How long is the fertile life of an ovum inside the cow?
 - a. 14-15 hours
 - b. 8 10 hours
 - c. 19-20 hours
 - d. 10-12 hours
- 9. A well-grown Holstein heifer should be bred to calve at what age?
 - a. 24 Month
 - b. 23 Month
 - c. 22 Month
 - d. 25 Month

	61- Stimulation of parasympathetic division of GIT led to
-	A) Block enteric N.S. B) Inhibit GIT function. C) Block food movement. D) Stimulate GIT function.
ſ	62- The GIT short reflexes includes reflexes that control
	A Peristalsis & mixing contraction. B) Colon evacuation. C) Stomach motility. D) Ilium emptying.
	63- The GIT long reflexes includes reflexes that control all the following Except:
	A) Peristalsis & mixing contraction. B) Colon evacuation. C) Stomach motility. D) Ilium emptying.
-	64- Gastrin hormone secreted by G cells and stimulate
	A) Bile secretion. B) Pancreatic juice secretion. C) Gastric acid secretion. D) Gall bladder contraction.
	65- The main function of peristalsis movement of the GIT is
	A) Mixing of food. B) Movement of food. C) Both of them. D) None of them.
	66- The peristalsis movement of GIT stimulated by
	A) Gut distention. B) Chemical irritation. C) Parasympathetic stimulation. D) All of them.
	67- The gastrointestinal blood flow increased by all the following Except:
	A) Parasympathetic stimulation. B) Sympathetic stimulation. C) ↑ metabolic rate. D) Kinins.
	68- The chewing process is caused by a chewing reflex which stimulated by
1	A) Presence of food bolus in mouth. B) Chemical irritation. C) Parasympathetic stimulation. D) Gut distention.
	69- The main functions of chewing process are
	A) Cellulose membrane destruction. B) ↑ food surface area. C) Grinding of food. D) All of them.
'	70- The area in medulla oblongata and lower pons that control swallowing called
	A) Apneustic center. B) Pneumotaxic center. C) Deglutition center. D) Chemotactic center.
	71- The mechanism of the pharyngeal stage of swallowing includes
	A) Trachea closure. B) The esophagus is opened. C) Fast peristaltic wave in esophagus. D) All of them.
١	72- The functions of GIT secretory glands include
l	A) Digestive enzymes secretion. B) Secretion of hormones. C) Urine secretion. D) Sweat secretion.
	73- The GIT secretory glands secretion increased by
ı	A) Parasympathetic stimulation. B) Presence of food. C) GIT hormones. D) All of them.
•	74- The serous secretion of saliva contains all the following Except:
ı	A) Ptyalin. B) Mucin. C) Bicarbonates. D) Potassium.
ı	75- All the following factors causes copious salivation Except: A) Sour taste. B) Irritating food in stomach. C) Sympathetic stimulation. D) Parasympathetic stimulation.
	7 7 1
1	76- The main step of chemical mechanism of HCL formation is
ı	, , , , , , , , , , , , , , , , , , ,
	C) Active pumping of H ⁺ ions into blood. D) Active pumping of HCO ₃ into blood. 77- The pancreatic secretion containing more sodium bicarbonate fluid stimulated by
ı	7 11 0.1
•	A) Histamine. B) Secretin hormone. C) Acetylcholine. D) All of them. 78- The gastric secretion containing more hydrochloric acid stimulated by
6	A) Histamine. B) Secretin hormone. C) Somatostatin hormone. D) All of them.
	79
_	6) -
1	A) Cephalic. By Intestinal. (C) Gastric. D) All of them. 80- The bile salts accounts for
	D) 1008/
	A) 25%. B) 50%. C) 75%. D) 100%.

WITH MY BEST WISHES

Dr. Ibrahim said

	e u	
39- All the following events occur in estrus stage I A) Estrogen reach its surge.	Except:	
	B) Female accept	t mala
C) Estrogen surge stimulates LH release.	(D) Draggetana	to a firm and a
40- All the following animal are seasonally poly es A) Cow. B) Sheep	trus animals avant	begins to increase.
DI DIICCD.	1 1 7001	
41- Melatonin hormone secreted by pineal gland a A) Cow. B) Mare	end considered - C Pre-	D) Måre.
A) Cow. B) Mare.	C) Shared as GnRH inl	nibitor in all animals except:
42. The availated accrete	Chsheep.	D) Bitches.
 42- The ovulated oocyte considered as		· • • • • • • • • • • • • • • • • • • •
43- The secondary follicle surrounded arter 11	(C) Mature oocyte.	D) Oogonium.
A) Cumulus oophorous R) Zono pollucida	ру	
43- The secondary follicle surrounded externally has Cumulus oophorous. B) Zona pellucida. 44- The meiosis division II of the secondary oocyte	(C) Theca folliculi.	D) Corona radiata.
44- The meiosis division II of the secondary oocyte A) Ovulation. B) Fertilization	~ , , , , , , , , , , , , , , , , , , ,	* * * * * * * * * * * * * * * * * * * *
D) I CHIIIZAHOH.	() lifeinization	201 2
45- The ovulated oocyte must be supported by		
b) Cumulus conhorous	() Zona nallyzaida	the same of the sa
The state of the s	TOTIOWING AUTHRAIS EXCENT:	
D) COW.	(') ('amel	TOTAL TIT
	• • • • • • • • • • • • • • • • • • • •	
, and the emparision.	B) Protein syntl	nesis in and around follicle.
C) Increased blood flow to ovary & follicle.	11) A 11 ~ C 41.	
48- The mature corpus luteum is fully developed an	nd functioning during	stage
Tota do.	I I MATACTERIA	
49- In most animal species the non-gravid uterus st	imulates luteolysis by PGF2	2a Except in
D) COW.	() Sheen	77. 7.
50- Prostaglandin F2 α causes luteolysis by stimulat	tion of	2) 172010.
2) Louis gen secretion.	(B) Vasoconstric	tion of CL microvasculature.
C) Progesterone secretion.	Dun 1 4	
51- The sperm must reach the site fertilization before A) Gravity. B) Sperm motility	re ova by one the following	mechanism
D) Sperm mothly.	l l Chemotavic	TO A 31 C . 3
- The sperm can penetrate the zona pellucida lave	er of oocyte through hydrol	veic by
ACIOSHI EHZVINE	Onglycin ongyme	D) 6
33- The fertilized ova can be protected from polyspe	ermy by	D) Corona radiata reaction.
Di Zona i Caciloni	() Arbonization	
4- The middle layer of fetal membrane that carry r	placental blood veggels and	D) All of them.
cord called	DIN SIDES A DIOUN ACSSCIS AND S	anacnes tetus through umbilical
A) Allantois. B) Chorion.	C) Amnion	D) T - 1
55- As an incomplete barrier the placenta allow the	nassage of	D) Endometrial layer.
D) Heparin.	(') Antibodica	10 1 To 1
66- The placenta of pregnant women can secrete A) HCG. B) PMCG.	C) Antibodies.	D) Plasma pi neins.
A) HCG. B) PMSG.		that maintain CI function
	C) Placental lactogen.	D) Relaxin.
7- The placenta of pregnant ewe can secrete A) HCG. B) PMSG.	(C) Diametric that	at help mammary gland growth.
DITIVIDU.	U Vincental lasts were	The board of the state of the s
8- PMSG, a glycoprotein secreted from endometria 1) Urine only. B) Blood only.	I cups and detected in	
Diodd only.	VCA BOTH A X R	T) XI
9- The decline of progesterone level before parturity a) Prostaglandin. B) Cortisol.	on sumulates	secretion in cow.
b) Cortisol.	C) Both A & B	D) None of the
0- The myenteric plexus of GIT can control		
A) GIT motility. B) GIT secretion.	C) GIT blood flow.	D) Both A & B

19- The secretion of seminal vesicle glands con	tains all the following Except:	· · · · · · · · · · · · · · · · · · ·
A) Fructose. B) Prostaglandins.		
20- The secretion of prostate gland contains		
A) Fructose R) Prostaglanding	C) Proteolytic enzymes.	D) Protein kinase.
21- The secretion of bulbourethral glands con	tains mainly	
A) Mucous. B) Fructose.		D) Proteolytic enzymes.
22- All the following environmental factor can		
A) Temperature. B) Light.	C) Rain fall.	D) Season.
23- The high concentration of testosterone ma	intained inside the seminiferous tu	bules by
A) Its lipid solubility.	B) Androgen bind	
C) Counter current exchange mechanism.	D) All of them.	
24- All the following hormones regulate the te	sticular function Except:	
A) Inhibin. B) Cortisol.	C) Growth hormone.	
25- The site of sperm capacitation is	• • • • • • • • • • • • • • • • • • • •	
A) Uterus. B) Testis.	C) Epididymis.	D) Fallopian tube.
26- Sperm capacitation led to		
A) Deterioration of sperm acrosomal membrane.		d motility.
C) Both of them.	D) None of them	
27- The mechanism of sperm capacitation inc	ludes	
A) Removal of membrane cholesterol.	B) Removal of e	pididymal glycoproteins.
•	(D) All of them.	
28- The site of fertilization is		
A) Uterus. B) Testis.	AND COMMENT OF THE CO	(D) Fallopian tube.
29- The main function of ovaries includes		
A) Oogenesis. B) Spermatogenesis.		(D) A & C.
30- The function of uterus includes		
A) Part of birth canal. B) Site of pregnancy.		D) Steroidogenesis.
31- All the following structures form the birth	h canal Except:	
A) Vulva. B) Vagina.	C) Uterus.	D) Cervix.
32- Concerning Estrogen function all the follo	,	***************************************
A) Induce endometrial gland growth.	Induce cervix	
C) Induce mammary gland duct system growth.	(D) Induce endom	etrial gland secretion.
33- The metabolic functions of estrogen inclu		
A) ↑ protein synthesis. B) ↑ lipolysis.	(C)↑ water excretion. D)↑ Ca	a ²⁺ mobilization from bone matrix
34- Progesterone hormone secreted by		
A) Utarus R) Graafian follicle	C) Placenta.	D)Pituitary gland.
A) Uterus. B) Graafian follicle. 35- Inhibin secreted by granulosa cells of gra	afian follicle and inhibit	
A) FSH secretion only. B) LH secretion only	C) Both FSH & LH secretio	n. D) Estrogen secretion.
36- High level of progesterone can inhibit	, oj Bom i Bil ov Bil seelene.	
A) FSH secretion only. B) LH secretion only	C) Both FSH & LH secretio	n. D) Estrogen secretion.
37- The age of puberty can become earlier w	hen	
	B) The animal is	
A) Animal lives in tropics.	D) Animal lives in	
(C) The animal given bad nutrition. 38- The follicular phase of estrus characterize	· · · · · · · · · · · · · · · · · · ·	
		rus & diestrus stages.
(A) Short phase.	,	ormone predominate.
C) Corpus luteum predominate.	riogesterone n	omone prodominate.

19- The secretion o	f seminal vesicle glands cont	oing all the fall	pt:
A) Fructose.	B) Prostaglandins.	C) Protein Lines	pt;
20. The secretion of	C		D) Proteolytic enzymes.
A) Fructose.	B) Prostaglandins	(C) Protockytic	mes. D) Protein kinase.
21- The secretion of	f bulbourethral glands conto	ine mainly	mes. D) Protein kinase.
A) Mucous.	8	THE PROPERTY	• • • • • • • • • • • • • • • • • • • •
	environmental factor can a	C) Protein kinase.	D) Proteolytic enzymes.
A) Temperature.	B) Light	C) Deing I unction E	D) Proteolytic enzymes. xcept:
23- The high concer	itration of testesterone main	C) Rain fall.	D) Season.
A) Its lipid solubility	teration of testosterone main	tained inside the seminifer	ous tubules by
	xchange mechanism.		en binding protein.
24- All the following	hormones regulate the te	D) All of the	nem.
A) Inhibin.	P) Cordinal	cular function Except:	
-2) 111110111.	b) Cortisol.	C) Growth hormone	D) A ativity
A) Utanis	capacitation is		*************
A) Uterus.	B) Testis.	C) Epididymis.	D) Fallopian tube.
A) Deterioretic	TOTAL TOUR TO	•••••	
A) Deterioration of sp	perm acrosomal membrane.	B) Hyperac	ctivated motility.
C) Both of them.		D) None of	fthem
4) P	of sperm capacitation includ	les	
A) Removal of memb	rane cholesterol.		al of epididymal glycoproteins.
C) Increase Ca ²⁺ influ		(D) All of the	1am
28- The site of fertili	zation is		
A) Otolus.	B) 1 estis.	C) Ovaries	TO TO III
29- The main function	n of ovaries includes		
) 0080110010.	b) spermatogenesis.	C) Steroidogenesis	D) A P- C
20- The function of fi	iterus includes		
A) I art of offin canal.	B) Site of pregnancy.	C) Site of conulation	D) C('1
8	Sor actures for the file for the CS	nal Except:	D) Steroidogenesis.
A) Vulva.	B) Vagina.	C) Uterus.	
32- Concerning Estro	gen function all the following	g is true except:	D) Cervix.
A) Induce endometrial	gland growth.	Induce ce	ryiy ananina
C) Induce mammary g	land duct system growth.		dometrial gland secretion.
33- The metabolic fur	nctions of estrogen include	D) madec on	domental gland secretion.
A) ↑ protein synthesis.	B) ↑ lipolysis.	1 water excretion D	↑ Co2+
34- Progesterone hor	mone secreted by	water exerction. D)	↑ Ca ²⁺ mobilization from bone matrix.
A) Uterus.	B) Graafian follicle	C) Placente	
35- Inhibin secreted b	V granulosa cells of granfion	folliala and inhibit	D) Pitu'tary gland.
A) FSH secretion only	B) LH secretion only	C) Doth Edit of the	
36- High level of prog	esterone can inhihit	C) Boin FSH & LH secr	retion. D) Estrogen secretion.
A) FSH secretion only	R) I H gagration and	(I) D - /1 TOTY	b) Estrogen secretion.
37- The age of nuhout	v can become and	C) Both FSH & LH secr	etion. D) Estrogen secretion.
A) Animal lives in trop	, can become carner when .		
The animal given ba	ics.	B) The animal	l is male.
38. The following -1.	a of other lands	D) Animal liv	es in temperate zone.
A) Short phase.	se of estrus characterized by		
Ty onort phase.		B) Include met	estrus & diestrus stages.
C) Corpus luteum prede	ominate.		e hormone predominate.



Department of physiology Course title: special physiology (222).

 2^{nd} year -2^{nd} term.

Date: 27 June 2021.

Time allowed: 2 hrs.



Q I) Choose the correct answer for each	statement of the	e following: (Tota	l marks: 25 Ms).

1- One of the following organs is of the male external genitalia and share in testicular thermoregulation:
A) Penis. B) Clitoris. C) Scrotum. D) Vulva.
2- All the following structures share in seminal plasma production except:
A Epididymis. B) Seminal vesicle glands. C) Prostate gland. D) Bulbourethral glands.
3- One of the following cells present inside the seminiferous tubules and share in Spermatocytogenesis:
A) Granulosa cells. B) Sertoli cells. C) Leydig cells. D) Spermatogonia.
4- The Sertoli cells plasma membrane carry receptors.
A) FSH. B) LH. C) Testosterone. D) Estrogen.
5- The function of Leydig cells includes
A) Supportive & nutritive function. B) Secrete androgen binding protein.
C) Secrete androgens. D) Promote spermiation.
6- The function of anti-Mullerian hormone in male during fatal life is
A) Bind & transport iron. (B) Deterioration of Mullerian duct.
C) Stimulate spermatogenesis. D) Inhibit estrogen secretion.
7- All the following structures are included in blood testis barrier Except:
A) The myoid peritubular cells. B) The tight junction between Sertoli cells.
C) Basement membrane of the seminiferous tubules. D) The tight junction between Leydig cells.
8- All the following share in testicular thermoregulation Except:
A) Scrotal muscles. B) Pampiniform plexus. C) Scrotal sweat glands. (D) Testosterone hormone.
9- Spermatogenesis start in adulthood with the mitotic division of
A) Spermatogenic stem cells. B) Sertoli cells. C) Leydig cells. D) Myoid cells.
10- Each spermatogonia can be divided into haploid cells through the process of spermatogenesis.
A) 2. B) 4. C) 6. (D) 8.
11- Both are essential for initiation and maintenance of spermatogenesis in adult male.
A) Testosterone & LH. B) Testosterone & FSH. C) Thyroxin & FSH. D) Testosterone & Prolactin.
12- The major types of steroids produced by testicles include all the following Except:
A) Androstenedione B) Testosterone C) Dihydrotestosterone. D) Estrogens.
13- In human, the Leydig cells produce testosterone under the effect of
A) HCG of placenta. B) LH from ant. pit. gland. C) Thyroid hormones. D) Prolactin hormone.
14- The effect of testosterone occurs through binding with receptors.
A) Estrogen only. B) Androgen only. C) Androgen & Estrogen. D) Estrogen & Progesterone.
15- The blood testosterone level can be regulated by
A) Neural mechanism. B) Positive feedback mechanism.
C) Negative feedback mechanism. D) Humeral mechanism.
16- The metabolic function of testosterone includes
A) Protein anabolism. B) Excretion of Na ⁺ & K ⁺ . C) Water excretion. D) Protein catabolism.
17- Obstruction of efferent ductules prevent sperm transportation between &
A) Vas deferens – Ejaculatory duct. B) Epididymis – Vas deferens.
C) Vas deference – Efferent ductules. D) Rete testis - Epididymis.
18- The sperms recovered from the tail of epididymis are
A) Motile but Infertile. B) Immotile but Fertile. C) Motile & Fertile. D) Motile & Capacitated.





	Final Exam of Veterinary genetics and genetic engineering-
	2nd semester 7 - 6- 2021 time: 3hours (50 Marks)
	Q1) Choose the best answer for the following questions:
9	1-In a Robertsonian translocation fusion occurs at
	the
	a) Telomeres. b) Centromeres. c) Histones. d) Ends of the long arms
d	2-The presence of two or more cell lines from different zygotes in a Free manifelant single individual is known as:
	a) mosaicism. b) diploidy. c) Aneuploidy. d) chimaerism.
b	3-What are the repeating units of nucleic acids?
	a) Phosphate molecules b) nucleotides c) bases d) sugar molecules.
OL.	4- Proteins are made of amino acids linked together by specific bonds called
d	a) Peptide bonds
	a) Interphase b) Prophase c) Anaphase d) Non- of these
)	6- The enzyme which builds a mRNA strand complimentary to the DNA transcription unit is called
	a)DNA polymerase b) RNA polymerase c) Helicase d) DNA ligase
4	7 -Which of the following is not true of DNA?







Final Exam of Veterinary genetics and genetic engineering-2nd semester 7 - 6- 2021 time: 3hours (50 Marks) a) A pairs with T and G pairs with C b) Nitrogen bases are 0.34 nm apart on a DNA strand c) The double helix is 2.0 nm d) The double helix is 3.4 nm wide. wide / 8- Which of the following is not needed for DNA transcription? a) Ribosomes b) Nucleotides c) DNA Enzymes d) None of the above 9-Which of the following types of base substitutions results in a stop codon a) UAA, UAG, UGA b) UCG,UAG,CUA c) AUC, ACU, CUA d) UAA, CUA AUC 10-genetic code may be..... a) 4 codone b) 3 codon c) 5codon d) 2 codon ~ C 11-In transcription of DNA a) There are several RNA primers b) DNA synthesis is discontinuous c) Polymerization proceeds in 5'- 3' direction d)RNAploymeras 12-Amino-acyl-tRNA syntheses.....





	Final Exam of Veterinary genetics and genetic engineering-
	2nd semester 7 - 6- 2021 time: 3hours (50 Marks)
	a) Recognizes codons on mRNA b) Recognizes the anti-codon on the tRNA c)Catalyses the binding of amino acid to its respective tRNA d) Recognizes the D arm of the specific tRNA
0	13-The bonds that stabilize the structure of DNA are
	a) Hydrogen bonds and peptide bonds b) Phosphodiester bonds and hydrogen bonds c) Glycosidic bonds and thioester bonds d) Disulphide bonds and peptide bonds
D	14-The flow of genetic information is the following order:
d	a)Translation → replication → transcription b)Replication → transcription → translation ← c)Transcription → replication → translation ← d)Replication → translation → transcription 15-Which of the following types of RNA molecules that is involved in translation?
d	a) transfer b)ribosomal c)messenger d)all of the above 16-the genetic codone characterized by
	a) universal b)non over lab c)coma free d)all
6	17- core particle of nucleosome containmolecule of H1
_	a) non b)one c)two d)three
1)	18-The enzyme responsible for charging of
	tRNA
	a) ligase. b)DNA polymerase. C) RNA polymerase D)
	amino-acyl transferas
	19-The process of copying a gene's DNA sequence into a sequence of
	DNA is





	7 - 6- 2021	time: 3hours	(50 Marks)
called		DR 000 CDB 000 D10 000 000 000 000 000 000	
100000			
a) replication. 20-polysomes are	b) transcription.	c) translation.	d)PCR.
06 800 606 650 650 660 600 600 600 600 600		442222222222224224224224224	******
a) aggregation o mlysosomes	f ribosomes	b) segregation	n of
c) mRNA molecu simitaneouly	lles to which many	ribosomes are at	tached
d)all of the abov	re e		
T 0 2 2 7 3 0 7 3 7 4 7 6 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	process occure in	••	
polymerases)lysosome c)ECO	R1 d) nucleo	olus
2- Transcription oc	curs along a	emplate forming	an mRNA in the
direction.			
		; 3' to 5' c)3'	' to 5'; 5' to 3'
direction. a)5' to 3'; 5' to			' to 5'; 5' to 3'
a)5' to 3'; 5' to d)3' to 5'; 3' to 5' 3-translation proce		c)cytoplasm	to 5'; 5' to 3' d)!ysosomes





	Final Exam of Veterinary genetics and genetic engineering-
	2nd semester 7 - 6- 2021 time: 3hours (50 Marks)
5	a)RNA polymerase b) Tag polymerase c)DNA
	polymerase 1 d) none of all
)	26-individual have abnormal karyotype, but its gonads don't
	correspond to the chromosomal sex.
	a) Phenotypic intersex b) chromosomal intersex c) gonadal
	inter sex d)Hermaphrodite.
	34-There are many type of inter sex as
}	27-the genetic material has several function and characters, for example
	a)replication and variation b)transcription and translation c)none of all d)a $lpha$ b
λ	28-The presence of two or more cell lines from one zygotes in a single individual is known as:
and the same	a) mosaicism. b) diploidy. c) Aneuploidy. d) chimaerism.
	29-Qudrivalent can see during metaphase in abnormal cell due to
ž.	a) Gene knockout b)gene therapy c)centric fusion translocation d) reciprocal translocation
	30-shifts occurred inchromosome
. *	a)one b) two c) three d) four
7	31-freematrins in cattle due to





			erinary genetics a			
		nd semester		time: 3hou		Marks)
	-	double -yoke		iovascular ana		
			in reproductive t	ract	d)reproduc	ctive
		tract dysgenes				
μ	32-F	Feemartines p	resent in	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		10.0
		a)cattle	b)cat and piges	c)buffalo	d)a,b	
	33-du	uring growing	of DNA synthesis	nucleotide ad	ded in	
	*******	direction				
	a)	3 ⁻ -5 ⁻	b) 5 ⁻ -5 ⁻		c) 3 ⁻ -3 ⁻	d) 5 ⁻ -
	34-nc	•	own syndrome c	aused by		
		***********	************************			
	a)	Monosoy	b)polyploidy	c) trisomy d	l) none of all	
a	35-in	hetited Dow	n syndrome cou	used by :		
	a)	centric fusion	translocation			
	b)	ring chromos	omes			4
	c)	robertsonania	an translocation			
	d)	deletions	g ve			
	durin	g transcriptio	Variable 17			
a) Relief of tension in the DNA strands to prevent breakage. b)Separation of two strands of DNA; "unwinding" gives polymerases access to the strand.						
			aling of two DNA		ranscription	and
		the state of the s	n processes are congression of the interaction	that delicate and the second and the	scription fac	tors
		and the Di				VIS Pakario da Alkalo I
a	37-de	letion occurs	chromosom	es	2000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	





	Final Exam of Vet	erinary genetics and	d genetic engineeri	ing-
	2nd semester		time: 3hours	(50 Marks)
	a) one b)two c)four	d)three	
C	38-deletion have	types		
	a) one d)four	b)two	c)thr	ee
\subset	39-delestion in do	minant genes cous	e the recessive ger	ne act as
Į.	dominant thus cal	led	000000000000000000000000000000000000000	æ
	domina	ctor methods b)conce methods termine	d)all of the ab	- and belief the second
	c)num	size ,length ber, size, shape eed for	d) all	t ,length ,shape
	a)replicate DNA		*	¥
	b) expr	ession telomere	c)replicate	e telomere
		nedicine amniocent ntdays ge		c purposes has
d	a) 60 43rema	b)120 in condensed throu		d)40 e.
	a) Euchroma	tine b)hε somes d)aαb	eterochromatine	
0		erchromatin	****************************	
		b) Telomeres re		d)all
	45-replication and	separation of chro	mosome without i	
	a) Endosom	ies	b)endopolyploidy	





Final Exam of Veterinary genetics and genetic engineering-2nd semester 7 - 6 - 2021 time: 3hours (50 Marks) (a) endomitiosis d)de-46-which of the following description of chromosomes is not correctly matched? a) Metacentric—chromosome arms are almost equal in size. b) Sub metacentric — chromosome arms are slightly different in size. c) Acrocentric— chromosome arms identical in size above 47-monyploidy synonymous with..... A)diploid b)parthenogenesis c)haploidy d)polyploidy 48-balanced structural changes as..... a)duplications b)rig chromosomes c)inversions d)isochromosome 49-compansating loop which occurred during synapsis occur when a) Shifts b) duplications C) inversions d) inversion. duplication, deletions 50-what the type of bond forms between purines and pyrimidine? b)ionic bonds c)Hydrogen bonds d)nona) covalent bond covalent bonds 51- Parts of a gene that does not transcribe into mRNA are termed..... a) introns b)exons c)promoter d)leader sequence 52-freematrins have been reported in





Final Exam of Veterinary genetics and genetic engineeringtime: 3hours (50 Marks) 2nd semester 7 - 6- 2021 b)goats and sheep c)equines a) pigs aab but show no. evidence of any sex duct development. b)gonadal dysgenesis a) dosage compensation c)testicular feminization syndromes d)secondary sex differention 54-in.....condition the centromere split along axis of the chromosome and homologous parts of sister chromatids move to opposite poles b)Isochromosomes c)duplication d)deletion a) normal 55-Cri-du-chat Syndrome is due to b) heterozygous deletion a) heterozy gous deletion in 5pd) homozygous c) heterozygous inversion in 5pin 5qdeletion in 5p-56-....act as a signal for starting transcription. c)promoter a) Terminator b)Initiator d)Elongator 57-RNA polymerase is direct for synthesis of c)tRNA d)all of b)rRNA a) mRNA above 58-the end product of genetic expression is..... a) ribonucleotide chain b) nucleotide chain c)polypeptide chain d)deox ribonucleotide chain 59-indviduals are those with more than two complete set of chromosomes...... 30





	Final Exam of Veterinary genetics and genetic engineering-				
	2nd semester	7 - 6- 2021	time: 3hours	(50 Marks)	
	a) pigs	b)goats and sh	пеер	c)equines d)	
	aab				
(53A	ffected individuals	s have XY males	but show no	
	evidence of any sex				
	a) dosage comp	ensation	b)gonadal dys	genesis	
	c)testicular	feminization synd	romes c	l)secondary sex	
	differention				
7	54-incon	dition the centro	mere split along	axis of the	
Marian &	chromosome and ho				
	opposite poles				
	->1	l-)ll	a aldumlias	tion didalation	
7	· ·	b)Isochromosom			
α	55-Cri-du-chat Synd	rome is due to			
	a) heterozy go	ous deletion in 5p-	b) heter	ozygous deletion	
	in 5q- c)	heterozygous inv	ersion in 5p-	d) homozygous	
	deletion in	5p-			
\subset	56act as a sig	gnal for starting tr	anscription.		
	a) Terminator	b)Initiator	c)promote	er	
	d)Elongator	•			
1	57-RNA polymerase	is direct for synth	nesis of		
	***********	\$6 546 566 H 60 540 6			
	a) mRNA	b)rRNA	c)tRNA	d)all of	
	above		,		
	58-the end product	of genetic expres	sion is		
-	-				
	a) ribonucleot) nucleotide ch		
	2	de chain d)deox r			
C	59-indviduals are th	nose with more th	an two complet	e set of	
	chromosomes		70		





Final Exam of Veterinary genetics and genetic engineering-2nd semester 7 - 6- 2021 time: 3hours (8

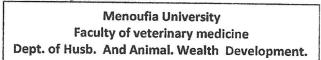
		************	mo semese	C1 /-(J- 2021	CIII	ile. Silou	115	(50 Iviari	KS)
			a)monosr	ny	b)haplo	id	c)p	olyploi	t	
			d)trisomy							
C	60	-RNA ch	ain termin	ation need	S					
	a)i all		tion codons	s b)term	ination fa	actor c)polycist	ronic en	ızymes	d)
a	61	-tRNA h	ave	.loops						
	a)t	two	b) three	c)fou	r d)five				
b	62	-chargin	g tRNA me	ans		*****				
	a)d	carry mR	RNA b)carry ami	no acids	c)carry	anothe	r tRNA	d) all	
D	63	-chroma	itine can be	e isolated	*************					
	a)l	oiophysi	cally I	b)biochem	ically	c)b ca	nnot	d) biosta	aticslly	
0	64	-partial	karyotype (can be pre	pared in .					
	a)	Human	samples	b)bird	samples	c)large	animal	d) sma	ll rumina	ant
9	65	-differer	nt types of	banding te	chnigues	D D B B B B B B B B B B B B B B B B B B	**********	>*** °		
V	$\overline{}$		nd b)G-k			-				
L	-		ding technic							
			nds b)N(d)all			
			body consi					2		
			stitutive he			b) f		e heter	ochroma	atin
		c) chron	nosomal he	eterochron	natin		d)all		and the same	





Final Exam of Veterinary genetics and genetic engineering-2nd semester 7 - 6- 2021 time: 3hours (50 Marks) 68-mullerian ducts is precursors ofin primary sex differention a)sperm ducts b)oviducts c)none d)secondry ducts 69-testicular feminization syndrome has deen described in a)mice b) rats c)humans d) al 70-in cattle fetal sex determination beforedays a)60 b)30 c) 250 d) 120 71-in both male and female freemartins diagnosed by blood cultures to checkthe presence of a)xx/xy chimaerism b)xx/xymosacismes c)xx/xycomplement d) all 72-includes all animal sexual development is due to the abnormal sex chromosomes a)gonadal intersex b)chromosomal inter sex c)phenotypic intersex d)all 73-RNA differ from DNA in a) Number of strand b)nitrogenous base c) pentose sugar d)all 74-.....character of genetic material a)replication b) storage of information c) varation by mutation d)all 75-chargaffs rules developedtechnique to measure the helix a)chemically b)x ray c)physically d) autographic 76-the double helix measuresnm in diameter a) four b)three c)two d) one 77-almost female calves born co- twin to mal will be







	rinar Exam or vetermary genetics and genetic engineering-
	2nd semester 7 - 6- 2021 time: 3hours (50 Marks)
	a)freemartin b) no Martine c) gonad martin d)all
0	78-when there are more than one x chromosomes only one x active how ever the inactive x chromosomenot totally in active this known as
	a)loop compensation d) dosage compensation c)testricular femmnization
	d)all
D	79is precursor of sperm duct differentions
	a)mullarian ducts b)wolffian ducts c)human ducts d)all
4	80general Couse of abnormal karyotypes
	a)drugs and chemicals b)ionizing radiation c)viruses andmycoplasma d)all
	With my hest wishes

DR: Hanim Heikal

Q65. Rabbits get all their daily water requirements from vegetables?
A) T
B) F Q66. The hierarchy character is clearly observing in sheep.
A) T
B) F Q67. Serotonin is a neurotransmitter involved in regulating mood, sleep, appetite and sexuality.
A) T
B) F
Q68. There is an evidence of intra-abdominal pressure in rumination of cattle.
A) T
B) F
Q69. If given a choice, camels prefer to eat sweaty plants.
A) T
B) F
Q70. About 2 months do rabbits mature and become sexually active.
A) T
D) E
Q71. Exploration in Fowl occurs for dust bathing.
A) T
B) F Q72. Trills are startle like response calls produced by chicks as a result of separation from the mother.
A) T
B) F Q73. Insight learning is the sudden production of new response, which is not the result of habituation.
A) T
O74 The limbic system is the central representative of the autonomic nervous system which consists
functionally of interconnected group of brain structures.
A) T
B) F Q75. "Lock and tie for 20 min" is a normal behaviour in bitch during copulation for the first time.
A) T
B) F
Q76. Estrus cycle in cat queen is about 3 weeks.
A) T
B) F Q77. Squeal is the sound of sexual rejection by mare which not in receptive estrus.
A) T
B) F Q78. A relaxed facial expression, with ears outward and the eyelids relaxed, together with an open-
mouth, indicates a distress response in horse.
A) T
B) F Q79. Coprophagia is seldom displayed by adults horse but it is common in foals up to 3-4 weeks of age.
$\mathbf{A})\mathbf{T}$
B) F Q80. Communication is the passage of information from one animal to another by means of signals to
Q80. Communication is the passage of information from the
influence its behaviour.
A) T
R) F

GOOD LUCK!

Please, carefully think before getting the answer.

	Q44. Type of vocalization that is produced by fowl as a result of exposure to electric shock is? A) Shrieks B) Trills C) Peeps D) Twitters Q45. Body, head and tail shakings occur as grooming behaviour in fowl but also appear during? A) Sexual displays B) Feeding behaviour C) Social behaviour D) Exploratory behaviour Q46. Drinking in inexperienced chicks can be elicited by moving surface of the water which is considered a stimulation? A) Olfactory B) Visual C) Tactile D) Auditory Q47 is a behaviour that deviates from a defined, standard behaviour shown by most individuals A) Abnormal behaviour B) Behavioural drift C) Epimelitic behaviour D) Et-epimelitic behaviour Q48 is a deviation from the natural order, particularly in relation to species-specific defects. A) Activity displacement B) Allelomimetic behaviour Q49. The neurons have a secretory capability in production of releasing hormones. A) Amygdale B) Hippocampus C) Hypothalamic D) Pituitary Q50. Pheromone secreted by the animal to the outside of the body and perceived by a second animal of the same species resulting in a specific behavioural reaction called
	Q59. The short-termed memory depends on electric activity of the
	Q60. Sensitization is a process with effect apparently opposite to that of
	A) Insight learning B) Habituation C) Imprinting D) Conditioning
4	Of Sheep rests in standing position.
	Agre Street rang itt omitmisk bootmotte

П- А

A) T

B) F
Q62. All animals including the human one are equal and should have equal rights.

A) T

B) F

Q63. Most beef cows calve in spring season of the year.

A) T
B) F
Q64. Camel's liver has a gall bladder.
A) T

B) F

Q20. Measures of animal welfare are				
A) Psychology & behaviour B) Physiology & immunology C) General health & pathology D) All				
Q21. Sources of pheromones, particularly in dogs, are				
A) Urine B) Special scent glands C) Saliva D) All				
Q22. In, fast activity electroencephalograph output by the brain of cattle.				
A) Alert wakefulness B) Drowsiness C) Active sleep D) Deep sleep				
Q23. Cattle spent about /day in grazing cycle.				
A) 2-5 hours B) 4-9 hours C) 12-16 hours D) 16-24 hours				
Q24. The degree of rumination during the first stage of labour in cattle is				
A) Reduced B) Increased C) Stopped D) Not affected				
Q25. The cow herd during the fighting is leaded by				
A) Old cows B) Old bulls C) Bull claves D) Mature bulls				
Q26. Factors affecting grazing patterns in cattle are stimuli.				
A) Visual B) Gustatory C) Olfactory & tactile D) All				
Q27. In pre-parturient stage of cow, escaping of coloured fluid from its vulva.				
A) Yellow B) Red C) White D) Black				
Q28. The peak of rumination activity time in camel is				
A) After night fall B) At morning C) At noon D) At Afternoon				
Q29. On average, sheep consume food equivalent to of their body weight per day.				
A) 1% B) 2.5% C) 5% D) 10%				
Q30. A premature onset of maternal behaviour in ewes leads to				
A) Early abortion B) Milk letdown C) Lamb stealing D) Hemorrhage				
Q31. 10- The most widespread Egyptian breed of sheep is				
A) Baladi B) Barki C) Rahmani D) Seidi				
Q32. 10- In sheep, the tongue				
A) Does not protrude during grazing B) Nearly protrude during grazing				
C) Protrude during grazing D) To somewhat protrude during grazing				
Q33. Candling infertile chicken eggs at 7th day of incubation reveals what? A) Clear egg B) Dark mass C) Dark ring D) Spider shape				
A) Cloud OBB				
Q34. A bird that suddenly stops laying and begins to set on eggs is called?				
A) Broody bird B) Fertile bird C) Hatching bird D) Laying bird				
Q35. At which time of the day the frequency of mating in Fowls is high? A) Early morning B) Early afternoon C) Late afternoon D) Nighttime				
Q36. The grunt is a sound emitted by horse during A) At the beginning of sexual encounters B) Before feeding				
C) Mare is worry about her foal D) All of them				
Q37. Activation of the parasympathetic nervous system has the following effect				
A) Activation of the salivary glands B) Pupil constriction				
C) Stimulating the secretions of the stomach D) All of them				
Q38 is the scientific study of animal behaviour.				
A) Ethology B) Reactivity C) Umwelt D) Welfare				
Q39. Adult horse urinates times per day.				
A) 1-2 B) 3-6 C) 6-12 D) 12-14				
Q40is a form of grooming in horse.				
A) Rolling B) Parturition C) Vocalization D) Elimination				
Q41. The incubation period for fowl eggs is?				
A) 18 days B) 21 days C) 28 days D) 30 days				
Q42. The main feeding pattern in domestic fowl is?				
A) Food running B) Picking C) Bill wiping D) Bill beating				
Q43. A comfort behaviour pattern performed by fowl that also appears in conflict situations is what?				
A) Feather ruffling B) Yawning C) Wing flapping D) Preening				



A) Bedding

A) Biogenic amines

B) Ingesta

B) Amino acids

Q19. Types of neurotransmitters are

C) Fur

سارقس



Department of Husbandry and Development of Animal Wealth Faculty of Veterinary Medicine

Menoufia University

Animal and Poultry Behaviour Exam - 2	2 nd year students
30 th June, 2021	Time: 2 hours
I- Choose the best answer:-	
Q1. Dopamine hormone is a neurotransmitter involved in regulating	
Al Aroncol III Mada	
Q2. The psychological tests to measure the welfare are:	Stress
A) Preference tests A) Open field tests A) Anxiety tests	
Q3. Chemical substances secreted by the animal to the outside of the bo	A) All
Vomero-nasal organ.	dy and perceived through the
A) Pheromones B) Neurotransmitters C) Hormones D) None
Q4. Vices in cattle causing losses of milk, contamination of the udder an animal itself	nd sometimes indication of
animal itself.	nd sometimes indigestion of th
A) Suckling B) Kicking C) Licking D) C	oprophagia
Q5. One of behavioural signs of approaching parturition within 1-2 hour	e in cov
	D) None
Q6. Sheep could graze any grass of the ground level.	D) None
A) The same B) More than 10 cm C) Less than 10 cm D) Less than 10 cm D	ese than 5 cm
V. A behaviour in which two animals stand few meters apart with their	heads lowered give an analy
other and their norms directed in the same manner.	neads lowered, eyes on each
A) Reciprocal threat B) Play C) Exploratory D) Alert wakefulness	
Q8. The peak of rumination activity time in cattle is	
A) After night fall B) At morning C) At noon D) At	t Afternoon
Q9. Which direction should the show-person walk in relation to the cow	?
A. Forward B) Right side C) Backward D) L	
Q10. A period when camel is difficult to control.	
A) Maternity B) Copulation C) Kneeling D) Mascu	lline
Q11. Complicated stomach in camel is not consisting of	
A) Rumen B) Reticulum C) Omasum D) Ahomasum	
Q12. Some ewes show a premature onset of maternal behaviour leads to	· · · · · · · · · · · · · · · · · · ·
A) Lamb stealing B) Milk letdown C) Making nest D) Ston	mum in ation
Q13. The neonate lamb is removed immediately after birth and returned to	o its dam within it
15 distanty rejected.	
A) 10-20 minutes B) ½ hour C) ½-1 hour D) 2-4 hours	
Q14. The most important feature of social behaviour in sheep is	
A) Linear hierarchy B) Allelomimetic activity C) Complex hierarchy	D) None
Q15. What time of the day do rabbits usually eat?	
A) At night B) At morning C) At noon D) At	Afternoon
Q16. What mineral should always be available to rabbits?	
A) Iron B) Zink C) Potassium D) Sa	lt
Q17. After the litter of rabbits is weaned when should the doe be rebred?	
A) After 7 days B) Immediately C) After 1-2 days D) Af	ter 14 days
Q18. In pseudo rumination, rabbits re-ingest rapidly	Annual Control of the

D) All

D) Faeces