Republic of SRAC
Ministry of Higher Education
& Scientific Research
University of Baghdad
College of Veterinary Medicine
Committee examination
Subject physiology
Second year second attampt
Data: 5.8.0014



موری حرق رزاد الاشیا لبلی رافید کشی رشتا چنما پیش البیا الاشیالی البیان الاشیالی البیان الاشیالی میں فقی التیان کا الاشیالی میں فقی التیان کا ۱۹۰۱-۱۹۵۱

Q.1) A::What is the effect of pura	sympathetic stimulatic	in on Four of the followings:
1)-intestinal motility. 2		3)-Cardiac muscle contractility
4)- S.A node and A.V node .	16	 6)-Skin arterioles.
B::Answer TWO of the folion	Ings:	
 Enumerate the steps of rela 	xation of skeletal m	ascle,
Enumerate the causes negative	tive charge(-ve) of n	esting membrane potential.
 Enumerate FIVE types and 	main function of ce.	Il organelles.
Q.2) 1:Define three of the followin a) Juxtaglomerular appa c) GFR. 2: Draw and label an action potes	ratus . b) Rough d) cortio	endoplasmic reticulum. al nephrone.
Q.3) A:Define FIVE of the follows		
	2)- Ovulation,	3)-Cardiac output .
4)-Pampiniform plexus .		6)-Secondary sex ratio.
B: Mention only ((3 of 4)):	2014 02/01/11/10/21/2000	-y see many sea min.
1-Factors affected blood	flow.	
2-Factors help in sperm to	ransport toward am	oulia.
 Three hormones play in Type of blood vessels. 	nportant role in parts	arition.
(4) Fill in the blanks ((answer <u>FIVE</u>). The volume of blood ejected fro	m each ventriele per	minute called
Driving force of blood in system	ic circulation is a bo	rut
blood vessels which is responsib	le for gas exchange	is called
the main function of the ovary is		
the hormone which is called ovu		
Complete development of corpus		

Ministry of Higher Education Subject: physiology Second year second attempt



المراء البة القيا البطري معارضتها فتيار فنراطني

Q.5) A- Give three functions of the followings:

2) Aldosterone. 3) Thyroxine (T4) hormone .

- B- Meation three main differences between:-
- 1- HCG and ECG: 2- HbA and HbF.
- Q.6) Answer the followings:

- 1- Enumerate Two hormones secreted from adrenal cortex. Write one function for each hormone. 2- Enumerate Two membranes for brain and spinal cord. Write the location of CSF.
- ().7) A: Answer three of the followings:
- I-What are the functions of saliva?
- 2-Mention the action of five enzymes of the digestive system.
- 3-Whatis the importance of bilirubin in the bile?
- 4-What are the components of gastric juice?
- 5-What are the functions of the call bladder?
- Q.8) A- Define three of the followings:
- 1- Hypoxic hypoxia. 2- Spirometer . 3- Diaphram. 4- Vital capacity.
- B What are the basis by which exygen is transported from the air of the alveolus to the blood in the pulmonary capillaries? Mention also name of the transport method.

Subject biochemistry



وزوة التقير فكن وللبث الكثى فالأرضيية فيرثة تمته فللم فيدا فالأ

Q.1) Write the chemical structures of (Four) of the followings: ((16 marks)) 3- Cholesterol

1- α-D-glucopyranose. 4- linoleic acid.

2- Lactose.

5-1,olco,2-3plaimtosterin.

6- ATP.

O.2) A : Explain (SIX) of the followings: 1- Effect of PH on enzymatic reactions .

((30 marks))

2- Biomedical importance of glycolysis.

3- Biomedical importance of TCA cycle .

4-Degradation of Triacylglycerol by pancreatic enzymes.

5- Amino acid catabolism through oxaloacetic acid pathways.

6- Transamination .

7- Method of removal of ammonia from brain .

8- Urea cycle.

B: Show the pathway of (TWO) of the followings: 1- β-oxidation of long chain fatty acid.

((10 marks)):

2- Oxidative stage of glycolysis.

3- Synthesis of ketone bodies

0.3) Explain with equations the biosynthesis of (FOUR) of the following amino acids: ((16 marks))

a-) alanine b-) cystein.

c-) aspartic acid.

d-) scrine

e-) glutamine. f-) glutamic scid. Reputitio of IRAQ Ministry of Higher Education & Scientific Research University of Baghdad Catlega of Veterinary Medicine Committee assumation Sobject biochemistry Second year/second attempt Date: 1-6-2011



چیورود نیز بن روز د کنتی داشت کشی رشت جنده بداد صد کایا کشی کیش ای انجاز کشیدی شدادگلیسه تحریا کشا کشیده کناداکلیسه تحریا کشا کشیده کار کاری کناداکلیسه تحریا کشار کاری

((12 marks))

Q.4)Write true or false and correct the false statement: (FOUR only)

((8 marks))

1- Nucleoproteins are protein with carbohydrate.

2- Protein kinase A an enzyme consist of two subunits (R)and (C)).

3- Glycolysis pathway occur in the ribosome.

4- In the DNA strands adenine paired with urneil by hydrogen bonds.

5- Mmembrane lipids are amphipatic molecules with polar hydrophillic head and polar hydrophingic tail.

6- C-AMP is a nucleotide derived from ATP through the action of guanylyl cyclase.

Q.5) A: Write the function of (THREE) of the followings: ((8 marks))

1- Ca+2 and phosphotidylinositol (PIPP2).

2- Histon.

3- DNA ligase.

4- Messenger RNA.
5- Cytoskeleton .

B:Numerate (THREE) only:

1- Types of RNA.

2- DNA bonds.

3-RNA bases.

4- Steps of catabolism of amino acid nitrogen.

Three essential amino acids.

Good live

Regulble of IRAQ Ministry of Higher Education a Scientific Receptible University of Baghdual College of Veterinary Medicine Committee examination. Subject genetics. Second years second attempt.



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Note: Answer four Questions only.

- I Numerate and draw the types the chromosomes
- 2-Numerate five sex linked diseases.
- 3-Numerate the causes of deviation from Mendel laws
- 4-discuse the additive gene interactions
- 5-Numerate the types of mutation
 - 6-Numerate the causes of Mendel successful .

Republic of IRAC University of Baghdad College of Veterinary Medicine Subject: anatomy Second year's second attempt



فالمتحريج فلله فتليار هررا فتني

OI answer only two questions

(A1Define the following: I. Thorasic duct. 2. Scrotum.

(B) Describe the testes.

(C) l'aumerate the following: 1. Accessory sex gland of horse and dog. 2. The super facial lymphocemer of animal's body.

Q. 2 answer only two questions

(A) L What mean of thomso-lumber and craine- sucral division

2. Fearmerste the cesterna in brain.

(B) III, IV, VI and XII

1. Write the name of these cranial nerves. 2. Mention the sharing relationship of these nervos. C. Draw and label the ventral aspect of the brain.

O. 3 answer only two questions.

(A) Enumerate the popilla of the tongue in Ox.

(B) Describe the ascending colon of borse.

(C) Enumerate with draw the type of the uterus with example.

O. 4 answer only three questions.

- L. Define two of these terms:
- a. Findothoravic facia. b. Mediastirsum. c. Pleura.
- 2. Enumerates the parts of the broughtal tree respectively.
- 3. Determined the function of the kidneys.
- 4. Describe the modulla of the kidney in following animals:

Carnivores, Pig. Ox, and Horse

Republic of IRAQ University of Bapholad liege of Veterinary Medicine Subject: histology Date:18-9-2011



بزارة التحير فطي والبحث فنشئ فالما والمساقية في الله في الله

Q.1 Differentiate between only two of the following:

- A. Small and Large intestine.
- B. Duodenum and jejimum.
- C. Aloba and Bets cells of langerhas.
- Q.2 classifies the different types of blood components?

Q.3 Define only four of the following:

Cytoplasm. Endoplasmic reticulum, microvilli, Nerve cell, Tonsils, Nephrone.

Q. 4 answer only three of the following:

- 1) Differentiate between the types of cartilage. 2) Differentiate between the neuron and neurolgia. 3) Describe the histological structure of spleen. 4) List the parts of Nephrone. 5) Write the histological structure of pineal body.

Subject: anatomy Date:17-9-2011



فتتفيز وفت فليا في فلي

O.1 Classify (Answer only 2):

- a. the boost with example.
- b. the kidney of domestic unimals.
- v. the types of penis in Ox, stallion and Ram Q.2 Draw and diagram of the hoof ground surface.

O.3 Answer only 2:

a. Enumerate the anatomical structure of spermatic cord.

b. Write about (1) kidney. (2) Uneter.

e. Write about the descending of testis in scrotum.

0.4 answers only one of the following:

- a. Draw and label the ovary and uterine tube of mure.
- b. Draw and label the male urinary system.

O. 5 answer only three of the following:

- 1. Mention the major artery distributed from ports that sarrely (a) spicen. (b) kidney. (c)tail.
- 2. Enumerate the main blood vessels present in the jugular groove.
- 3. Designeeste the openings that occur in the right ventricle. 4. Enumerate the endocrine organs (only five)

- O. 6 answer only three of the following: 1. Describe briefly why mastitis usually affect individual quarters in caule.
- 2. Make a table showing the numbers & location of mammury gland in sow, mure, rat and cow.
- 3. Enumerate the components of dissected lactating udder. 4. In which cavity inside the body, these organs are present
- a. (Thymus). b. (Adrenal). c. (Pituitary gland).

Republic of IRAC Statistry of Higher Education & Scientific Research University of Baghdad Cottage of Veterinary Medicine Committee examination; Subject animal notation second year sepond attempt



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Q:1 Answer[only 3) of the following:

- C:TMUSWC177
- A- What are the properties of water .
- B- Write on protein digestion in (small intestine).
 C- What do we mean by macro/micro elements, Explain that with sample.
 - D- What are the properties of carbohydrate .

Q:2 Answer (only 3) of the following:

- A- Write on the deficiency of phosphor (b) in the animal feeding
- What are the chemical nature source and deficiency of vit. B1 (Thiamin).
- C- Define the following:

 1- Maintenance 2- mainutrition 3- growth 4- dry matter
- d- Enumerate the essential and non essential amino acids.

Q:3 Define (only 4) of the following:

- 1- Microbial digestion 2- Rumination 3- Net energy 4- biological value
- 5- Methanogenesis .
- Q:4 A- Draw the plan of N digestion in the rumen .
 - B-What are the factors affecting on 3 of the following :
 - 1- Digestibility coefficient of food.
 - 2- Metabolisabile energy.
 - 3- Urea digestion in the rumen.
 - 4- Crude fiber digestion in the rumen.

Republic of IRAQ clustry of Higher Educat & Scientific Research University of Baghdad Coonstitte examination subject animal natritio second year accord after Date: 14-8-2011



ردید تمکیر تمکن رییت تمکی رفت بستانیت مند دیا باش تیکن پر افغاندیا استانیا تمکانتیا میان تفت تمکنا امراز دلتی تاریخه: ۲۰۱۵-۲۰۱۵

Q:5 Answer (only 2) of the following:

- A- Define briefly the compensatory growth and its importance in broilers .
 - B- Mention only the program of compensatory growth .
 C- What is the symptoms of excess and deficiency of energy in poultry

Q:6 Answer (only 2) of the following:

nutrition?

- A- What are the benefits of pellet that is used in the diet of poultry .
 - B- Mention and explain briefly the main types of poultry feed.
- C- What are the differences between layer and broiler diets .

Republic of IRAC Ministry of Higher Education & Scientific Research University of Beghdad College of Vaterinary Madicine Committee szamination Subject: embryology Second year second entempt Date:20-9-2015



صغرب خبران در د حضود فضر ولینت کشی در شد بیشته پیدد داد کند فضر میبر پ هیدا داشته میداد کنید هشته همر فضر میداد کنید هشته همر فضر میرین 2011-8

Q.1 Define only <u>four</u> of the following: Organesis, Fertilization, Implantation, Blastala, Placenta.

O.2 answers only three of the following:

- Draw a diagram the spermatogenesis.
 Explains the types of placentation in mammals.
- 3) Define the cleavage and mention the types of cleavage.
- 4) List the primitive heart regions.

Q.3 defines only three of the following:

Intermediate mesoderm, Pronephros, Metznephrogenic mass, lateral mesoderm,

Q.4 Write about the development of two of the following:

A. Metanephros. B. Simple stomach. C. Liver.