Q

#### **Final Examination** 2<sup>nd</sup>. Attempt

2011 / 2012

Subject: Biochemistry Time: 3hr. Year: Second

Date: 10/9/2012

Fill in the blanks (12 only):-
In promoter region, cis acting genetic elements including and
The strand of DNA transcribed to RNA is called, while others is called strand
Transcription unit in RNA synthesis is extended from to
In Eukaryocyte, RNA transcription, RNA can be synthesized from precursor called
Tryptophane could be used for synthesis of the hormone While tyrosine is used for synthesis of hormone
The term Dopa means while IFs Means
Cop region is characterized by presence of
tRNA is adapted for of genetics information and participate in synthesis
Termination codons included UAA,
- Initiation codon means
- Gene expression means
is an Initiation codon codes for a. a
- In Bacteria, Rh factor is required for the release of which is called
- Alanine is recognized as component of cell wall and constituent of

3- Glutamine

1- Alanine :-

2- Tyrosine :-

Q2// B// Numerate FIVE only:-		
I- Protein targeting		
a-	b-	C
2- steps of RNA synthesis		
а-	p-	c
3- Fate of acetyl - CoA		
a.	b-	c
4. characteristics of purine base :		
a-	b-	e
5. Classes of lipids present in bloo	d:	
a-	b-	c
6- differences between:-		
5 caning	poly A	tail

# Q3// Explain (FIVE) of the following:

الاجابة في ظهر الورقة

1.

- A. Effect of temperature on enzymatic reaction.
- B. More accepted hypothesis concerning the coupling of oxidation & Phosphorylation.
  C. Methods used for expressing enzyme activity.
- D. Km & Vmax.

1-

- E. Non oxidative stage of Glycolysis.
- F. Competitive, non-competitive and uncompetitive inhibition of enzymes.
- G. Classes of enzymes.
- II. Degradation of Triacylglycerol by pancreatic enzymes.

#### Q4// Illustrate (THREE) of the following:

الإجابة في ظهر الورقة

- a- Pyrimidine bases.
- b-Cholesterol transport and storage.
  - c-Gluconeogenesis.
- d-Action of hormones through calcium and phosphotidylinositol.

# Q5// Define (FOUR) of the following:

a-Glycogen Phosphorylase. b- Components of cytoskeleton.

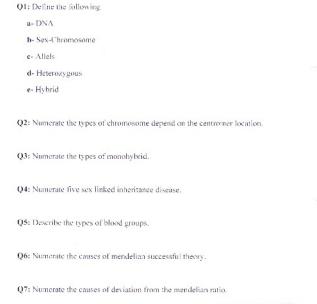
c-Fatty acid synthase complex.

d- β-oxidation of fatty acids. e-DNA replication.

#### Final Examination 2<sup>nd</sup>. Attempt 2011 / 2012

Subject: Genetics Time: 3hr. Year: Second Date: 9 / 9 / 2012

NOTE: Answer (5) Five Questions Only.



Good Luck

#### Final Examination 2<sup>nd</sup>. Attempt 2011 / 2012

Subject: Anatomy
Time: 3hr.
Year: Second
Date: 3/9/2012

Q. 1. Answer only three of the following questions:

- A. Enumerate the paranasal sinuses
- B. What are the nasal conchae
- C. Draw with labels the tracheal rings in different animals.
- D. What is the vomeronasal organ.
- O. 2. Answer only two of the following questions:
  - A. Write about the salivary glands in horse, their shapes, location and ducts.
  - B. Draw a diagram showing the external features of the stomach in ruminants.
  - C. Compare between horse, ruminants and dog in the followings:
    - I. Liver
    - II. Sublingual salivary gland
    - II. Stomach
- Q. 3. Answer only two of the following questions:
  - A. Write briefly about spinal dura mater and granial arachnoid meniages.
  - B. Illustrate by diagram with label dorsal surface of brain stem.
  - C. Write about parasympathetic cranial nerves.



# Q. 4. Answer the following questions: A. Write true or false (answer only-four of them); Odors are detected by retina in the nasal cavity ( b. Taste bud cells on the tongue detect the four basic tastes: sour, salty, bitter and sweet ( c. The eye is responsible for the sense of vision. Light entering the eye is refracted by the cornea and the lens so that an image is focused on the retina ( d. In the middle ear, the ear ossicles transmit vibrations of the tympanic membrane to the perilymph of the inner ear ( ). e. All lymph vessels, except the capillaries, contain numerous valves ( B. Full the blanks with the correct terms (answer only four of them): a. Lymph organs include the ......, which form a protective ring of lymph nudules around the openings of the nasal and oral cavities. afferent lymph vessels penetrate the capsule. c. ln ......, the "cortical" tissue is central where most nodules lie alongside the trabecular sinuses

d. .....are not found in all species and are most familiar in sheep, in which their

e...... is a large paired vessel that follows the course of the trachea within

dark color.

the neek.

Final Examination 2<sup>nd</sup>. Attempt 2011 / 2012 Subject: Embryology Time: 3hr. Year: Second Date: 8 / 9 / 2012

- Q.1. Answer only two of the followings questions:
  - A. Describe the development of the lung
  - B. Describe the development of the range
  - C. Describe the development of the bronchi
- Q. 2. A. Compare between the pronephros and mesonephros of embryonic kidneys
  B. Write about the metanephros kidney with drawing and labeling
- Q. 3. Answer only two of the following questions:

A. Define only four of the followings:

- \* Placenta
- \* Gametogenesis
- \* Morula
- \* Implantation
- \* Oogenesis
- \* Yolk sac
- TOR
- B. Draw a diagram of spermatogenesis
   C. Explain the fundamental pattern of implantation
- D. Enumerate the placentation types in mammals



# Final Examination 2<sup>nd</sup>. Attempt

Subject: Animal Nutrition Time: 3hr.

Year: Second
Date: 11/9/2012



Dr. HussainYawir	
Note: Answer ( 5) question only.	
Q1: What are the chemical formation of satu	urated fatty acids and their properties?
2	
4	
Q2: A- Compare between the :- Vitamin soluble in water	Vitamin soluble in fat
1	1
2	2
3	3

B- Numerate each one:-	
Vitamin soluble in water	Vitamin soluble in fat
Q3: Explain the importance of potassium mineral?	(K) and what causes the deficiency of this
Q4: Describe the vitamin ( Folic acid ) :	
And explain the:-	
a - properties:	
1	
2	

3.	
b – fo	unction:
1	
2.	
3.	
4.	
	What are the factors which help to increase animal production?
1.	
2	
3.	
4.	

Q6: Which one from this is more important for animal and why?

- 1. Carbohydrate.
- 2. Protein.
- 3. Fat.

Dr. Galib AL Qaisy
Q1: Define vitamin A.
Q2: Mention only role of vitamin A in body processes.
Q3: What is the difference between broiler and layer diet?
Q4: Mention only the program of compensatory growth.
Q5: Draw the flow chart for breeding period of the broiler to get compensatory growth.

## Final Examination 2<sup>nd</sup>, Attempt

2011 / 2012

Subject: Physiology Time: 3hr. Year: Second Date: 6/9/2012

o mathe

j	ction for <u>five</u> of the followings:	(2.5 Marks)	
		function	
1-Golgi complex.			
2-Pneumotaxic cen	ter.		
3-ADH.			
4-Calmodulin.			
5-Sarcoplasmic retic	culum.		
6-Dentrites.			
7- Aescending limb	of loop of Henle.		
Q.2) Answer Five o	of the followings:	( 6.0 Marks )	
	ypes of adrenergic receptors:	( 0.0 Marks )	
a-	В-	c-	
2- Enumerate three	function of kidneys:		
a-	В-	c-	
3-Enumerate three ty	pes of the lung volumes:		
a-	B-	c-	
4- Enumerate three r	nethods of transport of large mo	lecules across the cell membr	ane
	B-		

5- Enumerate thre	c types of excitatory neurotra	nsmitters:	
a- b-	В-	C-	
6- Enumerate thre	c of the alveoli;		
a-	b-	c-	
Q.3A): Answer o	one of the followings:	( 2.0 Marks)	
1- Draw and label	of an action potential of a nerv	e cell.	
2-Draw and label t	the layers of blood-gas barrier.		
		(1534 15	
B): Define Two of	f the followings:	(1.5 Marks)	
B): Define Two of 1-: Surfactant:	f the followings:	( 1.5 Marks)	
	f the followings:	( I.5 Marks)	
l-: Surfactant:	f the followings:	( 1.5 Marks)	

Q.4) A) Define Three only:	(1.5 Marks)
1-Hormones:	
2-Ovulation:	
3-Baroreceptors:	
4-Heart rae:	
B): Give the main function of the followings:	( 3.0 Marks)
1-Parathyriod hormone	
2-Ovary	
3-Seminal plasma	
4-Arterioles	
Q.5)A) Mention only for two of the followings: 1-Function of placenta:	(1.5 Marks)
2-Factors actors help in transport of the ova to the	ampulla:
Factors affected blood flow:	

1-Norepinephrine cause	or n	leart by .
a- increase.	b- decrease.	c- no effect.
2-Corpus lutium destroyed	d byhormo	ones.
a- Prostaglandin F2 $\alpha$ .	b- LH.	cEstrogen
3-Calcitonin hormone synti	hesis and release from	
a- Thyroid gland.	b- adrenal gland.	c- parathyroid gland.
4-Blood vessels responsible	e for conduction of blood fro	m the heart are
a- Venules.	b- arteries.	c- capillaries.
5-Receptors of protein horn	nones located in	
a- nucleus.	b- cytoplasm.	c- cell membrane.
Q.6)A): Answer by true (	T) or false (F) in front of 8	of the followings: (2.0 Marks
1-The opral stage of swalle	owing is voluntary.	
2-Histamine stimulate secre	etion of hydrochloric acid by	the G-cells.
3-Secondary contractions of	occur in all parts of the numer	1.
4-The main end-products o	f cellulose and hemi-cellulos	se is ammonia.
5-Exocrine pancreatic secre	etion is stimulated by chime	in the duodenum.
6-Hypotonic solution ,mear	ns having solution with low	solute concentration.
7-Blood transports nutrient	s from gastrointestinal tract t	to the liver.
8-Fibrinolysis removes unn	needed clots by the action of	the prothrombine.
9-The body produce anti bo	odies called agglutinogens ag	ainst the AG not present.
10-The PCO2 in the CSF is	higher than in the plasma.	

Q.5) B ): Choose the correct answer (( Four only)) : (3Marks)

# B): Give the location and the function for 3 of the following: (2.0 Marks)

	The location	The physiological function
Flap valves		
Sphincter of oddi		
HSCs		
Oxyntic gland		

C) Complete the followings:

(2.0 Marks)

1- Phases of gastric secretion:

2-Mechanisms of homeostasis:

# $Q.7)\,$ Answer by (T) for the correct answer $\,$ and (F) for incorrect answer for (4) of the followings: $\,$ ( 3Marks )

- 1- The telencephalon is the largest part of the brain .
- 2- The medulla oblangata a term which means : long white marrow structure.
- 3- The white matter of the spinal cord contains cell bodies of nerve cell.
- 4- The primary motor area is situated in the postcentral gyrus.
- 5-The cerebellum is connected to rest of the brain through the medulla oblangata .
- 6- The cerebrum of birds is characterized by the presence of gyri and sulci.

## Final Examination 2<sup>nd</sup>. Attempt 2011 / 2012

Subject: Statistics Time: 3hr. Year: Second Date: 4/9/2012

NOTE: Answer (5) Five Questions Only.

Q1: Define the following :-

Statistics, Infinite population, Variables, Sample, Probability

- Q2: If you have the following data (1,2,3,3). Estimate the (Menn, Mode, Median, Standard error).
- Q3: Numerate the types and lows of probability
- Q4: If you have the following data, estimate the ( t-value )

	First Group	Second Group
No. of sheep	100	100
Mean body weight (Kg)	70	60
Standard error	3	2.

#### Q5: Complete the following table

S.O.V	DF	SS	MS	F
Between samples	9		****	
Within samples	90	900		
Total		1080		

Q6: Answer the following questions

- a- Estimate the probability value that (5) of (10) birds infected with C.R.D, if the infection potentage with C.R.D = 0.1
- b- Construct the confidence interval in level of (95%) of the following data
  - LNumber of birds = 100 individual
- 2. Population mean body weight = 4 Kg
- 3. Standard error of mean body weight = 0.1



Good Luck

Ministry of Higher Education and Scientific Research University of Baghdad

University of Baghdad

College of Veterinary Medicine

Final Examination

2<sup>nd</sup>. Attempt 2011 / 2012 Subject: Histology

Time: 3hr. Year: Second Date: 5 / 9 / 2012

Q.1. Answer only three of the followings questions:

- A. Describe shortly either thyroid or parathyroid
- B. Draw with label only two of the followings: respiratory region, capillary, alveolus, adrenal gland
- C. List in table the differences between sinusoids and capillaries
- D. Classify the white blood cells and then describe either Monocyte or lymphocyte
- Q. 2. A. Draw and label the nephron.
  - B. Describe the histological structure of only three of the followings:
    - \* Dermis
    - \* Collecting duct
    - \* Fundic gland of the stomach
    - \* The cell

- Q. 3. Answer only three of the followings questions:
  - A. Classify the neurons according to the number and shape of their processes.
  - B. Differentiate between elastic cartilage and fibrocartilage
  - C. Describe the histological structure of the spleen
  - D. Writes about both interstitial cells (Leydig cells) and about zona pellucida

