


Faculty of Vet. Med.	Postgraduate Final Examination				 Menoufia University
	Course code & name	Biochemistry of Nutrition			
	Department	Biochemistry & Chemistry of Nutrition			
	Prog.	Master	No of Ex. papers	1	
	Date	27/6/2022	Time	3h	
	Marks	50 (50% of Total Marks)			

Q1) Discuss biochemically (ONLY TEN points) the following: (30 marks)

- Factors affecting enzyme reaction rate (3 marks)
- Role of vitamin D in regulating blood calcium level (3 marks)
- Three dimensional structure of protein molecule (3 marks)
- Rancidity of fat (3 marks)
- Nutritional classification of amino acids (3 marks)
- Sphingolipids (3 marks)
- Basic amino acids, (3 marks)
- Factors affecting enzyme reaction rate (3 marks)
- Sulfur containing polysaccharides (3 marks)
- Role of vitamin D in regulation of blood calcium level (3 marks)
- Optical activity of monosaccharides (3 marks)
- Scleroproteins (3 marks)

Q2) Compare between each pair (ONLY FIVE) of the following: (15 marks)

- Enzymes and inorganic catalyst (3 marks)
- Sucrose and Invert sugar (3 marks)
- Fat soluble vitamins and water soluble vitamins (3 marks)
- Coenzyme and prosthetic group (3 marks)
- Iodine number and acid number of fat or oil (3 marks)
- Competitive and non-competitive enzyme inhibitions (3 marks)


Q3) Illustrate the biochemical formulae and importance of the following biomolecules:

- α -D glucose (5 marks)
(2.5 marks)
- Lecithin (2.5 marks)

Best wishes

Prof. Mohamed M. Ahmed

		Postgraduate Final Examination			
		Course code & name		Biochemistry of Nutrition	
Faculty of Vet. Med.	Department		Biochemistry & Chemistry of Nutrition		
	Prog.	Master	No of Ex. papers	1	
	Date	27/6/2022	Time	3h	
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جامعة المنوفية

Menoufia
University

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Q3) Illustrate the biochemical formulae and importance of the following biomolecules:

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Best wishes

Prof. Mohamed M. Ahmed

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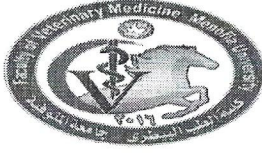
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Prof. Mohamed M. Ahmed



امتحان الماجستير تخصص الجراحة

مقرر التشريح التطبيقي

تاريخ الامتحان / الاثنين / ٢٧/٦/٢٠٢٢



اسم الطلبة/ احمد سعيد محمد / فاطمة اسامة لطفى / هدير مجدى عبدالحليم

Please answer the following questions

- 1- The nerve block considers a practical method for diagnosis of lameness. From your knowledge evaluate the previous sentence and describe applied approach for the main nerves of both thoracic and hind limbs.
- 2- Describe the anatomical features and anatomical approach for intra-articular injection or synoviocentesis of the joints forming manus region of horse
- 3- Describe the anatomical features and anatomical approach for intra-articular injection or synoviocentesis of the following joints
 - a. Stifle joint
 - b. Elbow joint
 - c. Shoulder joint

Best regards

Prof. Dr. Ahmed Elfayoumy



 Faculty of Vet. Med.	Postgraduate Final Examination				 Menoufia University
	Course code & name		Clinical Biochemistry		
	Department		Biochemistry and Chemistry of Nutrition		
	Prog.	MVM	No of Ex. papers	4	
	Date	27/6/2022	Time	2h	
	Marks	50 marks (50% of Total Marks)			

All Questions Should be Answered

Q1] Illustrate the biochemical reactions catalyzed by the following enzymes:	5 Marks
a. Glutamate dehydrogenase	1 mark
b. Carbamoyl phosphate synthetase I	1 mark
c. Tryptophane hydroxylase	1 mark
d. Phenylalanine hydroxylase	1 mark
e. ALT	1 mark
Q2] Mention the biochemical importance of the following::	20 marks
a. Liver in the body metabolism	10 marks
b. Glycine	5 marks
c. Tryptophan	5 marks
Q3] Please answer the following:	12 marks
a. Mention the role of the insulin in carbohydrate, protein and lipid metabolism.	3 marks
b. Consequences of insulin deficiency on carbohydrate, protein and lipid metabolism	3 marks
c. Role of the liver in the regulation of blood glucose level.	3 marks
d. Role of the kidneys in the regulation of blood glucose levels.	3 marks
Q4] Discuss the causes, consequences and lab findings of the following metabolic disorders:	8 marks
a. Fauvism	2 marks
b. Glycogen storage disease	2 marks
c. Deficiency of pyruvate kinase	2 marks
d. Abnormalities of pituitary functions	2 marks
Q5] Describe the causes and types of the following:	5 marks
a. Jaundice	2.5 marks
b. Fatty liver	2.5 marks

انتهت الاسئلة

Best wishes
Prof. Dr. Mabrouk Abd Elqaim



 Faculty of Vet. Med.	Postgraduate Final Examination				 Menoufia University
	Course code & name		Clinical Biochemistry		
	Department		Biochemistry and Chemistry of Nutrition		
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انتهت الاسئلة

Best wishes
Prof. Dr. Mabrouk Abd Eldaim

 Faculty of Vet. Med.	Postgraduate Final Examination				 Menoufia University
	Course code & name		Clinical Biochemistry		
	Department		Biochemistry and Chemistry of Nutrition		
	Prog.	Master of Vet. Med. (Pharmacology)	No of Ex. papers	2	
	Date	27/6/2022	Time	2h	
	Marks	50 marks (50% of Total Marks)			

All Questions Should be Answered

Q1] Discuss the metabolic, synthetic and immunological roles of the liver.	10 Marks
Q2] Please answer the following:	12 marks
a. Mention the role of the insulin in carbohydrate, protein and lipid metabolism. b. Consequences of insulin deficiency on carbohydrate, protein and lipid metabolism c. Role of the liver in the regulation of blood glucose level. d. Role of the kidneys in the regulation of blood glucose levels.	
Q3] Discuss the causes, consequences and lab findings of the following metabolic disorders:	16marks
a. Fauvism b. Glycogen storage disease c. Deficiency of pyruvate kinase d. Abnormalities of pituitary functions	
Q4] Describe the causes and types of the following:	12 marks
a. Jaundice	4 marks
b. Fatty liver	4 marks
c. Diabetes mellitus	4 marks

انتهت الاسئلة

Best wishes
Prof. Dr. Mabrouk Abd Elqaim



Food Hygiene and Control Department

Date: 27/6/2022



Master Microbiology

1- Discuss the following:

- 1- Enumerate extrinsic factor affecting microbial growth and discuss only one of them
- 2- Intrinsic inhibitor which affect microbial growth
- 3- Milk and dairy products may be contaminated by different sources of contamination
enumerate the external sources and discuss only one of them.
- 4- Growth curve of bacterial growth
- 5- One of intrinsic factor affecting microbial growth

Good luck



Faculty of Veterinary Medicine
Department of Bacteriology, Immunology and Mycology
Exam of PhD Molecular Immunology and Diagnostic
Date 23/6/2022 Time: Two hours

Total marks: 50

I- Each questions below contains suggested answer choose the one best response to each question (20 Marks)

- 1-..... Is a pentamer of the basic unit with μ -heavy chains & a single J-chain
a - IgA b -IgM b -IgG b -IgD
- 2-.....are types of cell mediated immunity
a-CD4 T helper b-CD8+Cytotoxic T-lymphocyte c- a&b d-none of them
- 3-Antigens that are directly activate B cells called.....
a-thymus dependent Ag b-mitigens c-a&b d-none of them
- 4-..... responsible for production of antibodies
a-cellular response b-innate immunity c-humeral response d-none of them
- 5-Innate immunity depends on
a-mechanical barriers b-bactericidal substances c-natural flora d-all of them
- 6-Mechanism of killing of K-cells include
a-perforins b-granzymes c-apoptosis d-all of them
- 7-All of them characteristic to B-lymphocyte except
a-constitute 30% of total lymphocyte b-short life span
c-differentiated to plasma cellsd- named after thymus gland on which their maturation depends
- 8-All of them characteristic to T-lymphocyte except
a-constitute 70% of total lymphocyte b-long life span
c-differentiated to effector cells, some produce lymphokines, some cytotoxic & other can be helper cells
d- named after bursa of fabricus in chicken & in human bone marrow

d- named after bursa of fabricus in chicken & in human bone marrow

9-..... Called microphage

a-neutrophils b-monocyte c-basophils d-none of them

10-..... circulate in blood for 3 days, then migrate to tissues & change to macrophage

a-monocytes b-neutrophils c-mgakaryocytes d-none of them

11-Alternative pathway activated by

a-MBL b-Ag-Ab complexes c-microbial substance c-non og the above

12-Function og complement system

a-regulation of chemotaxis b-opsonization of innate immunity

c-solubilization to immune complex d-all of them

13-Complement deficiency cause

a-SLE disease b-HIV c- recurrent infection in capsulated bacteria d-all of them

14-..... discovered after classical pathway

a-alternative pathway b-terminal pathway c-lectin pathway d-none of them

15-..... is the most abundant protein in alternative pathway

a-C5 b-C3 c- C8 d-none of them

16-Defeciency in lectin pathway lead to

a-immuno-suppressive disease (HIV) b-SLE

c- none of them d-recuurent infection

17-Defeciency in alternative pathway lead to

a-immuno-suppressive disease (HIV) b-SLE c- none of them d-recurrent infection

18-Complement secreted by

a-liver b-macrophage c- a&b c-none of them

19-Complement pathways are

a-classical pathway b-lectin pathway c- alternative pathway d-all of them

20- Lectin pathways activated by

a-Ag-Ab complex b-MBL c- none of them d-all of them

II - Write the short notes on the following (30 Marks)

1-Antomical barrier of innate immunity

2- General characterizes of antigen and types of bacterial antigen

3- cells play roles in the immuty

4-Types of immunoglobulin



Menofia university
Faculty of veterinary medicine
Departement of pathology



اسم المقرر: باثولوجيا الدواجن

كود المقرر: (0180520)

برنامج: دكتوراة الباثولوجيا

التاريخ: ٢٠٢٢-٦-٢٠

All questions should be answered

(50 marks)

Q1- Give an account of infectious viral diseases affecting respiratory system of chicken.

Q2- Describe neoplastic diseases of chicken caused by viruses and how can you differentiate between them.

Q3- Give shorte note about duck viral hepatitis infection.

Q4- Enumerate protozoal disease affecting pegion and describe the pathological lesion of them.

Q5- Write an essay about mycotoxicosis in poultry.

Good luck

Asst. Prof. Mostafa Abdelgaber

Asst. Prof. Rania Talat Hamad



Faculty of
Veterinary
Medicine

PHD of Bacteriology, Mycology and Immunology			
Course code & name	Bacteria and fungi that infect Poultry and rabbits (0180815)		
Department	Bacteriology ,Mycology and Immunology		
Prog.	postgraduate	No of Ex. papers	1
Date	20/6 /2022	Time	2 hours
Marks	50 Marks		



Menoufia
University

Marks

Answer the following Questions:

Q1 –Admit to poultry farm of broilers chickens, some cases were found suddenly dead, your clinical examination revealed ruffled feathers, bloody diarrhea, P.M examination revealed patches of necrotic tissue on the intestinal epithelium. What is the suspect case and how to confirm your diagnosis?

10

Q2-Mention the causative agent, Colony morphology, Microscopical morphology and Diagnostic test for the following diseases.

12

- 1-Bumblefoot
- 2-Infectious coryza
- 3- Avian colibacillosis
- 4-Pollarum disease

Q3- write short on the following

12

- A- Aspergillosis
- B-Cropmycosis
- C- Mycotoxicosis

16

Q4- How differentiated between the following

- A-Fowl typhoid and Fowl cholera
- B- pathogenic and nonpathogenic E coli
- C-L-form colony and Mycoplasma colony
- D-Staphylococcal arthritis and infectious synovitis

انتهت الاسئلة

Best wishes

Professor Responsible:

Prof. Dr. Eman abdeen

Eman abdeen

Student Name:

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
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Write Briefly on the following:

1. *Dipyllobothrium* spp. Control in fish.
2. Anisakiasis.
3. Foodborne Campylobacteriosis.
4. Foodborne Pathogenic *Escherichia coli*.
5. Foodborne *Salmonella enterica*.
6. Foodborne Shigellosis.
7. Judgement of fish-borne parasites
8. Meat-borne Listeriosis.
9. *Staphylococcus aureus* intoxication.
10. Trichinellosis.

Good Luck



Final Term Exam
Subject: Bioinformatics
Level: Postgraduate
Date: July, 2022

٢٠٢٢ / ١٧ / ٤

Answer the following question:

Question 1 (10 grades):

- 1- In the PCR, the DNA polymerase role is
- 2- For making a cDNA copy of the RNA, we must use the enzyme named.....
- 3- After finishing the sequencing, the produced fragments are separated according to their sizes using.....electrophoresis.
- 4- During DNA sequencing, integration of the fluorescent nucleotides named..... causes sequenced chain termination.
- 5- are short, single stranded DNA fragments that are complementary to the start and end of certain gene and can be used to amplify many copies of it by PCR.

Question 2 (15 grades):

1- When designing real time PCR primers, the primers are taken from 2 different exons separated by an intron, which is named:

- a) intron span b) exon span c) primer dimers d) 3'-UTR.

2- in the following photo, the black arrow refers to the option is for:

The screenshot shows the NCBI Gene database interface. At the top, the search bar contains 'Grwth Hormone, Homo sapiens'. Below the search bar, there are links for 'Create RSS', 'Save search', and 'Advanced'. A 'COVID-19 Information' banner is visible. On the left, there are navigation links for 'Gene sources', 'Categories', 'Sequence content', and 'Status'. The main content area shows search results for 'IL6' (ID: 3569). A black arrow points to the 'Send to' button. The search results table is as follows:

Name/Gene ID	Description	Location	Aliases	MIM
IL6 ID: 3569	interleukin 6 [Homo sapiens (human)]	Chromosome 7, NC_000007.14 (22725889..22732002)	BSF-2, BSF2, CDF, HGF, HSF, IFN-beta-2, IFNB2, IL-6	147620

Search details: (Grwth[All Fields] AND Hormone[All Fields] AND ("Homo sapiens"[Organism] OR Homo sapiens[All Fields])) AND alive[prop]

- a) Downloading sequences.
- b) uploading sequences.
- c) designing primers.
- d) predicting primary amino acid structure of a gene.

3- For real time PCR, your primers must be designed to have an amplicon size (i.e. PCR product size) of:

- a) equal to or below 150 bp.
- b) equal to or below 20 bp.
- c) equal to or above 300 bp.
- d) equal to or above 1000 bp.

4- In the following photo:

Primer pair 1						
	Sequence (5'->3')	Length	Tm	GC%	Self complementarity	Self 3' comple
Forward primer	CGTATAAATAACATAAGCTT	20	46.16	25.00	6.00	6.00
Reverse primer	AACTCACACACGATGACG	19	55.92	47.37	4.00	2.00
Products on target templates						
>NM_057168.2 Homo sapiens Wnt family member 16 (WNT16), transcript variant 1, mRNA						
product length = 490						
Forward primer	1 CGTATAAATAACATAAGCTT	20				
Template	2423 .TC.....T..T.....	2442				
Forward primer	1 CGTATAAATAACATAAGCTT	20				
Template	2912 TTC.....A.....A.	2893				
>NM_016087.2 Homo sapiens Wnt family member 16 (WNT16), transcript variant 2, mRNA						

You can consider the designed primers:

- a) specific for Growth Hormone gene real time PCR quantification.
- b) not specific for Growth Hormone gene real time PCR quantification.

5- The Divalent cation (Mg^{2+}) in the PCR function is

- a) Activates the DNA polymerase.
- b) destruction of Disulphide bond.
- c) stops DNA polymerase.

6- Horizontal electrophoresis uses as gel matter:

- a) Agarose.
- b) Polyacrylamide.

7- The following interphase represents:

- a) Primer BLAST.
- b) Primer3Plus

Primer-BLAST: A tool for finding specific primers

Primer Parameters

Use my own forward primer (5'-3' on plus strand):

Use my own reverse primer (5'-3' on minus strand):

PCR product size:

of primers to return:

Primer making temperatures (Tm):

Exon/intron selection:

End of Questions ,Good Luck!

Dr. Khaled Mohammed Geba



Faculty of
Vet. Med.

Postgraduate Final Examination			
Course code & name	الأمراض المتوطنة للمجترات الكبيرة		
Department	Medicine and Infectious Diseases		
Prog.	MVSc	No of Ex. papers	1
Date	27/2/2022	Time	2 h
Marks	50 (50 % of Total Marks)		



جامعة المنوفية
Menofiya
University

All Questions Should be Answered

Q1] Write an essay on one of the following	20 Marks
a) Diseases causing abortion in cattle with special reference to prevention and control programs.	
b) Mucosal infectious diseases in cattle (etiology, clinical pictures, vaccines and vaccination).	
c) Cattle chronic wasting diseases.	
Q2] Write short note on:	15 marks
a) Treatment, Prevention and control of bovine babesiosis	3 marks
b) The clinical picture of lumpy skin disease	3 marks
c) The vaccines and vaccination against infectious bovine rhinotracheitis	3 marks
d) Treatment of acute toxic mastitis	3 marks
e) The diagnosis of chronic fascioliasis	3 marks
Q3] Discuss the following:	15 marks
a) FMD control challenges	5 marks
b) The vaccines and vaccination against bovine brucellosis.	5 marks
c) The clinical picture of <u>bovine ephemeral fever</u>	5 marks

انتهت الاسئلة

Best wishes

Prof. Dr. Mohamed A. Nayel



Faculty of
veterinary
medicine

Master of Meat Hygiene			
Course code & name	Bacteria and fungi causing infections in farm animals (0180812)		
Department	Bacteriology ,Mycology and Immunology		
Prog.	postgraduate	No of Ex. papers	1
Date	27 /2 /2022	Time	2 hours
Marks	50 Marks		



Menoufia
University

Answer the following Questions:

Marks

Q1- Report Case, you admit to a dairy farm, Several Cows were aborted at the late stage of pregnancy at the seven month with retained placenta. Write briefly in the following.

10

A- What the suspect case and causative agent

C- How to confirm your diagnosis

Q2-Mention the causative agent, Colony morphology, Microscopical morphology and Diagnostic test for the following diseases.

16

A- Enterotoxemia In lambs

B- Caseous lymphadenitis

C- Circling disease in sheep

D- Ringworm in calf

Q3- Write short notes on the following:

12

A-Enzymes of Staphylococcus aureus

B- Kauffmann-White scheme

C--Lancefield grouping of streptococci

D- Mycobacterium species

12

Q4- Write full account on the following:

A- Candidiasis in Cattle

B-Aspergillosis in dairy cow

C-Colibacillosis in newly calves

انتهت الاسئلة

Best wishes

Professor Responsible: Prof. Dr. Eman abdeen

Eman abdeen



Faculty of
Vet. Med.

Postgraduate Final Examination

Course code
& name

الأمراض المتوطنة للمجترات الكبيرة

Department
Prog.

Medicine and Infectious Diseases

MVSc

No of Ex.

1

papers

Date

27/2/2022

Time

2 h

Marks

50 (50 % of Total Marks)



جامعة المنوفية
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Faculty of
Vet. Med.

Postgraduate Final Examination

Course code & name	الأمراض المتوطنة للمجترات الكبيرة		
Department	Medicine and Infectious Diseases		
Prog.	MVSc	No of Ex. papers	1
Date	27/2/2022	Time	2 h
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جامعة المنوفية
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University



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انتهت الاسئلة

Best wishes

Prof. Dr. Mohamed A. Nayel

 Faculty of Vet. Med.	Undergraduate Final Examination				 Menoufia University
	Course code & name		Biochemistry of body fluids		
	Department		Biochemistry and Chemistry of Nutrition		
	Prog.	Diploma of Clinical Biochemistry	No of Ex. papers	20	
	Date	27/2/2022	Time	2h	
	Marks	50 marks (50% of Total Marks)			

All Questions Should be Answered

Q1] Antidiuretic (ADH) hormone plays important role in the regulation of water balance, please illustrate its role in the regulation of water intake and output. 8 Marks

Q2] Minerals have many functions in the body , please answer the following: 15 marks

- Mention the importance of the calcium in the body.
- Cause and consequence of hypo and hypercalcaemia
- Hormonal regulation of blood calcium level
- Mention the importance of both sodium and potassium in the body
- Regulation of blood sodium and potassium levels and the role of the angiotensin in it *Aldost / Angiotensin*

Q3] There are many factors that maintain the acid base balance in the body please answer the following: 12 marks

- Illustrate the role of hemoglobin as a buffer in maintaining of acid base balance
- Illustrate the respiratory Regulation of Acid-Base Balance
- Illustrate the renal regulation of Acid-Base Balance

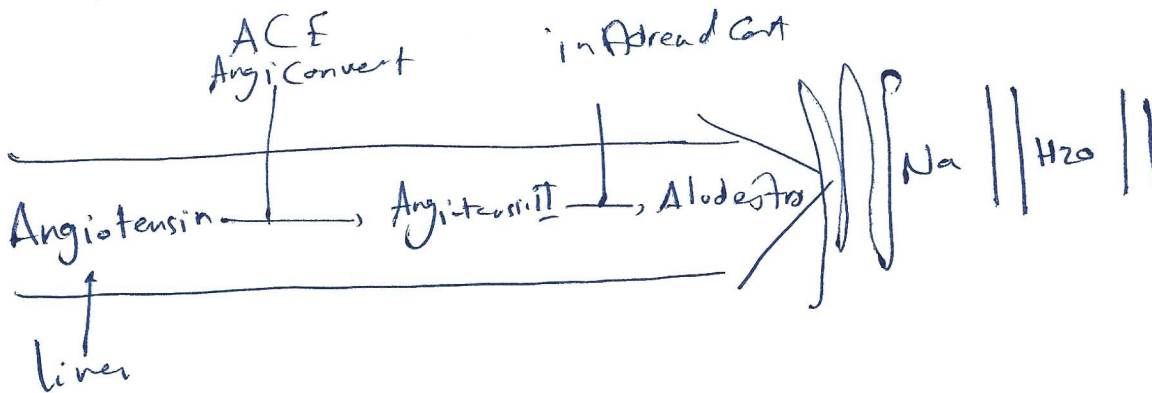
Q4] Please discuss the following: 15 marks


- Importance of albumin in the body and the consequences of hypoalbuminemia.
- Role of negative and positive feedbacks in the maintenance of homeostasis.
- Chemical compositions and Importance of synovial fluid.

انتهت الاسئلة

Best wishes

Prof. Dr. Mabrouk Abd Eldaim



Faculty of Vet. Med.	Postgraduate Final Examination				 Menoufia University
	Course code & name	Clinical Biochemistry			
	Department	Biochemistry and Chemistry of Nutrition			
	Program	Master	No of Ex. papers	1	
	Date	27/2/2022	Time	3h	
	Marks	50 (50% of Total Marks)			

All Questions Should be Answered

Q1] Discuss clinically the following:	25 Marks
a. Fatty liver	4 mark
b. Prosperities and clinical importance of ideal tumor marker.	3 mark
c. Clinical importance of alpha fetoprotein.	3 mark
d. Deficiency of pyruvate kinase enzyme.	3 mark
e. Hormonal regulation of blood glucose level	3 mark
f. Clinical importance of plasma urea, and creatinine levels.	3 mark
g. Ketoacidosis	3 mark
h. Mechanism of transformation of proto-oncogenes into oncogenes.	3 mark
Q2] Differentiate clinically between the following disorders:	13 marks
a. Diabetic & hypoglycemic coma.	3 marks
b. Tangier disease and Refsum's disease.	3 marks
c. Hypercholesterolemia and Hypocholesterolemia.	3 marks
d. Type I & type II diabetes mellitus.	4 mark
Q3] Write brief accounts on <u>ONLY FOUR</u> of the following:	12 marks
a. Hyperlipoproteinemia.	3 marks
b. Favism (causes and clinical findings).	3 marks
c. Glycogen storage diseases.	3 marks
d. Types and causes of azotemia.	3 marks
e. Functions of proto-oncogenes.	3 marks
f. Lactose intolerance.	3 marks

انتهت الاسئلة

Best wishes

Mohamed M. Ahmed

Prof. Dr. Mohamed Mohamed Ahmed

التطبيقات الإحصائية وأخلاقيات البحث والكتابة العلمية
والنشر (ماجستير)



Course name

Prog.

M.V.Sc.

No of
papers

Ex.

1

Date

6/3/2022

Time

2 hrs

Marks

50 degree



All Questions Should be Answered

Q1] Write fully on the following:

15
Marks

1. Different types of population.
2. Qualitative and quantitative variables.
3. Stratified, random and systematic samples.

Q2] The following are the results of effect of supplementary fattening ration with certain growth promoter (x) on body weight (y) :

10
Marks

Growth promoter (kg/Ton)	2	4	6	8	10
Body weight (kg)	4	5	6	8	11

- a. Calculate linear regression equation b. Find correlation (r)

Q3] Calculate **Mean, Range, Mode and Median** from the following data:

10
Marks

21, 18, 25, 20, 26, 21, 22, 30, 23, 35

Q4] أ. ماهي شروط البحث العلمي الجيد؟ وما هي مواصفات الباحث الجيد؟

15
Marks

ب. اشرح معايير وضوابط النشر العلمي مع توضيح الأماكن التي يمكن النشر فيها؟

انتهت الاسئلة

Best wishes

Professor Responsible:

Prof. Dr. Ibrahim Ahmed

Best wishes