# امتحانات الفرقة الثالثة

(الترم الاول)

سنوات سابقة



ribosomes

A True

B False

Departement of pathology
Faculty of veterinary medicine
Menoufia university

*	
Course name (code)	General pathology (311)
Program	BVSc
Date	March 2021
Time allowed	2 hours
Total score	25 Marks
TOTAL SCOLE	



All quistions should be answered:	(20 manks)
All quistions should be wise.	(20 marks)
Part I: Choose the correct answer  Q1. Pathology is the study of the structural, biochemical, and functional changes in cells, tis	ssues, and organs
Q1. Pathology is the study of the structure,	· Lamayad
that underlie disease:  (A) True (B) False (C) True if the word structural removed (D) True if the word fu	inctional removed
A True B False © True if the word structural removed © True if the word structural responses to changes in physiolog Q2	ic states and some
pathologic stimuli allowing the cell to survive and continue to function.  Decrosis  O Adaptations	
pathologic stimuli allowing the cent to still vive and control of the	) Anthracosis
Apoptosis  Apoptosis  Apoptosis  Apoptosis	l injury.
Apoptosis  (B) Necrosis  (C) Adaptations  (B) Necrosis  (B) Necrosis  (C) Adaptations  (D) Adaptations  (E) Adaptations  (E) Adaptations  (D) Adaptations  (E) Adaptations  (D) Adaptations  (E) Adaptations  (D) Adaptations  (E)	Amyloidosis
A karyolysis  B Damage to DNA  Q4. The influx of water along with sodium ions to the cell when the Na+/K+ pumps fail ca	Iled
Q4. The influx of water along with sodium fond to the Gallery of Market along with sodium fond to the Gallery of the Control o	(D) Healing
(A) Hydropic degeneration  (B) Hypertrophy  (C) Ischemia  (B) Hypertrophy  (C) Ischemia	ygen, glucose, and
A Hydropic degeneration  (B) Hypertrophy  (C) Ischema  (D) Ischema  (D) Ischema  (E) Hypertrophy  (E) Hypertrophy  (E) Ischema  (E) Hypertrophy  (E) Ischema  (E) Hypertrophy  (E) Ischema  (E) Ischema  (E) Hypertrophy  (E) Ischema  (E) Isch	•
other nutrients to the cell, as well as decleased tells to the contraction (D) Ischem	ia
A Hyperemia B Edellia	oduces heat
A Hyperemia  B Edema  C Congestion  Q6. Glycolysis leads to an accumulation of lactate with decreased intracellular pH, and pro  Q6. Glycolysis leads to an accumulation of lactate with decreased intracellular pH, and pro  A True  B False  True if lactate replaced by glucose  True if decreased replaced by glucose  True if decreased replaced by glucose  True if decreased in weight, pale and swollen with	placed by increased
A True (B) False (C) True it lactate replaced by B	rounded edges.
07 liver affected with Hydropic degeneration increased rel	placed by decreased
A True B False C True if pale replaced by bright red of the fine reason of the intracellularbalance is integral to the transition from potential Q8. Disruption of the intracellularbalance is integral to the transition from potential Q8.	ally reversible acute
Q8. Disruption of the intracellulardatable is mogration	
cell swelling to irreversible injury and cent death.	
A Vitamin C (B) Sodium ion (C) Mid22	ps cytoplasmic blebs
(A) Vitamin C (B) Sodium ion (c) MS222 (b) Calcium ion (d) Vitamin C (d) Sodium ion (e) MS222 (b) Calcium ion (f) Calcium ion (f) Calc	placed by inclusions
True (B) False (C) True II 1055 replaced by III	
O10 Normal endothelium is prothrombotic and antinormoly des	
A True B False  Q11. Necrotic cell death elicits an inflammatory reaction because of the release of cell co	intents into the ECM.
Q11. Necrotic cell death elicits an inflammatory reaction because of the release	replaced by apoptotic
A True B False C True if elicits replaced by doesn't elicit True if inceretion of the inceretion of th	ole causing cell death.
Q12. If cell fails to restore mitochondrial function, acute central replaced by reversible  © True if irreversible replaced by reversible	-
True  (B) False  (C) The myseographical and skeletal muscle necrosis in	white muscle disease.
A True  B False Co True if irreversible replaced by reversible repla	- ·
Anthracosis  B Calcification C Ictrus C edenia  Anthracosis	cute cell swelling.
Anthracosis  B Calcification C Ictrus C edema  Q14. Soon after cell death, necrotic tissue may have the same macroscopic features of a	
A True  B False  O15 Dead cells tend to have intense cytoplasmic eosinophilia due to the denature	d protein and loss of
- O15 Dead cells tend to have intense cytopiasinic cosmophina	









كلية الطب البيطرى- قسم الطفيليات

Final 1<sup>st</sup> term parasitology exam

Time allowed: 2 hours

Total marks: 25 Marks

Date: 11/1/2020

#### Write on the following with illustration:

#### I-write short notes on: (7 marks) of nematodes in their final C-Development hosts. D-Cysticercosis......(1 Mark) II-With diagram illustrate the life cycle of: (1X4=4 Marks) -Cecal fluke of birds. -Dipylidium caninum. -Strongylus vulgaris. -The most pathogenic *Raillietina* species. III- in a table mentions the diagnostic stage and the infective stage of (1X8=8 Marks) the following: -Hymenolepis nana. - Taenia saginata. - Rumen helminth. - Moniezia pallida. -Heart worm. -Rat tail. -Dipetalonema evansi. -Gape worm. IV- In a sheep farm. Some were suffering from icteric signs, bottle jaw and cachexia......(6 Marks) What is your suspected helminth diagnosis? (1 Mark) Write fully on one of each helminth type? (3 Marks)

#### GOOD LUCK

Prof. Dr. Eman Bazh

يتم إجراء الامتحان الشفوي عقب الانتهاء من النظري مباشرة بالقسم

1

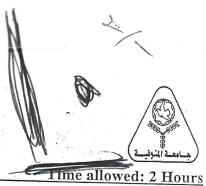
How could you diagnose them?

1

(2 Marks)



Menoufia University
Faculty of Veterinary Medicine
Pharmacology Department
Third Year Exam (1<sup>st</sup> term)



Please answer the all of following questions

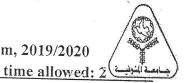
First part the obje	ctive questions (60 quest	ions / 15 marks) ة الالكتروني	الاجابة في نموذج الاجاب
	Choose the	correct answer	
A Portial agonist can	produce maximal effects a	nd has high efficacy it's calle	ed:
Januar agomst	B. Antagonist	C 4	D. Full agonist
A. Tachyphylaxis	on can occur in case of usin	g a combination of drugs?	8
11. Lachyphylaxis	B. Tolerance	C C	D. Accumulation
0		he result of interaction at re-	ceptor, cell, enzyme or
A. Pharmaceutical 4- Local anesthetics	B. Pharmacokinetic	C. Pharmacodynamic	D. Physical
- Zocar anestnenes			
A. Weak bases	B. Weak acids	C. Salts	D. None of them
5- The more lipophy			
A. Are more potent	B. Have longer action	C. Bind more to proteins	D. All of them
6- Which of the follo	wing barbiturates is an ult	ra-short-acting drug	2. Tan or them
A. I niopental	B. Phenobarbital	C Sacabambital	D. None of them
7- Which of the follow	wing analgesics is a phenar	threne derivative	D. None of them
A. Fentanyi	B. Morphine	C Mathadama	D. Narcotine
8- Which of the follow	wing inhalants is a gas ane	sthetic	2. Trait count
A. Ether	B. Nitrous oxide	C. Chloroform	D. None of them
4 Destrict of the follow	wing glucocorticoids is a lo	ng-acting drug	
A. Prednisolon	B. Cortisone	C. Dexamethasone	D. None of them
4 Telesis	ving NSAIDs is a propioni	c acid derivative?	
A. Flunixin	B. ibuprofen	C. Diclofenac	D. Both 'B' and 'A'
11- Which of the follo	wing NSAIDs is a selective	COX-2 inhibitor?	
A. Celecoxib	B. Phenylbutazone	C. Diclofenac	D. None of them
12- The most powerfu			
A. Antazoline	B. Diphenhydramine	C. promethazine	D. Chlorpheniramine
13- Ketamine mode of	action is		- Construction and the construction of the con
A. GABA agonist I	3. Glutamate antagonist	C. GABA antagonist D.	None of them
14- Picrotoxin mode of	f action is	Beauty D.	tone of them
A. aspartate agonist	B. GABA agonist	C. GABA antagonist	D. None of the
15- Metoclopramide ac	ct as antiemetic's drug by	o. Grant antagonist	D. None of them
A. Dopamine			
antagonist	B. Dopamine agonist	C. 5-HT3 blocker	D. H2 blocker
16- Select the drug tha	t cause addiction		
A. Amphetamine	B. Retaline	C. Morphine	D. D41 (D1 1/2)
		o. morphile	D. Both 'B' and 'C'

17- Select the most pe	owerful analeptic - has v	vide safety margin	
A. Bemegride	B. Doxapram	C. Coramine	D. something else
18- The maximum no	on-lethal dose is	· · · · · · · · · · · · · · · · · · ·	
A. LD100	B. LD0	C. LD50	D. something else
	antidote in strychnine t		2. conteming ease
A. Trimethadione	B. Primidone	C. Mephensin	D gomething else
	at is used in obstetrical		D. something else
			T T/ 1:
A. Morphine	B. Amidone	C. Pethidine	D. Etorphine
	otent drug in reducing p	i	-
A. Hydrocodeine	B. Heroin	C. Morphine	D. Hydromorphone
	at act as central emetic		
A. Apomorphine	B. Papaverine	C. Narcotine	D. something else
23- The dangerous ba	d effect caused due to a	dministration of a large dos	se of a drug
A. Toxic action	B. Side action	C. Reflex action	D. Therapeutic action
24- Select the drug w	hich inhibit hepatic mic	rosomal (cytochrome P450)	) enzyme
A. phenylbutazone	B. rifampin	C.penicillin	D. something else
25- A decrease in res	ponsiveness to a drug w	hich develops in a few minu	ites or hours
A. Tolerance	B. Idiosyncrasy	C. Acute Tolerance	D. something else
26- when sudden syn	ptoms of sensitivity hap	pen immediately after dru	g administration
A. Allergy	B. Anaphylaxis	C. Idiosyncrasy	D. something else
27- What kind of sub	stances can't permeate	membranes by passive diffe	
A. Hydrophilic	B. Lipid-soluble	C. Hydrophobic	D. Non-ionized
28- Parkinson's disea	se appear due to deficie	ency in	~
A. Adrenaline	B. serotonin	C. histamine	D. Dopamine
29- The convulsion th	nat is characterized by s	pontaneous, coordinating, a	Asymmetric properties
A. Epileptic	B. Tonic	C. Clonic	D. something else
30- Drugs which calr	ning the animals, withou	it or loss of consciousness e	ven with large dose
A. Hypnotic	B. Tranquilizers	C. analgesics	D. something else
31-This type of drug	suppress cough reflex		
A. Antitussive	B. Antiviral	C Described library	D. J. W. W.
		C. Bronchodilator	D. Antibiotic
A. Noscapine	following used for treating B. Potassium iodide	C. Codeine	D. Mamphina
	ets as non-opioid antitus	4	D. Morphine
A. Benzonatate	B. Noscapine	C. Oxeladine	D. Gauifensen
	ig exceptare bro		D. Gaunensen
A. Salbutamol	B. Terbutaline	C. Theophylline	D. Cinroflevesia
	cosity of sputum to be ea		D. Ciproflexacin
A. Antivirals		C. Antitussive	D Propohodilatora
	B. Expectrant		D. Bronchodilators
A. Dimethocone	on of frothy bloat to free		n n e c
	B. Pilocarpine following used in case of	C. Acetylcholine	D. B & C

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Faculty of Veterinary Medicine
Nutrition and Clinical Nutrition. Second Year Exam, 2019/2020



## Please answer the all of following questions First part the objective questions (60 questions/15 points) الاجابة في نموذج الإجابة الالكتروني

		Choose the	correct answer	
1- A	dietary protein is no	ot degraded in the man	en is referred to	
A. RU	JP	D DDD	en is referred to	7
		sociated withde	C. Microbial protein	D. Protected protein
A. Vi	tamin E		C. Vitamin A	
3- Ma	anganese plays an impo	ortant role in the synthesis	of	D. Thiamin
A. Bo	one	B. Osteoclast	C. Chondroitin sulphate	D 0 11
4- Ac	cid detergent fiber (ADI	F) are	o. Chondrottiii suipilate	D. Osteoblast
A. cel	llulose &		C. Hemicellulose &	
	micelluloses	B. Cellulose & lignin	lignin	D. All of them
5- 1h	e ideal DCAD in dairy	cattle is to increase	their production.	
A. +50	0	В50	C250	D. +250
0- 1ra	ace element is expressed	B50	• • •	
A. 1 CI	Cent %	B. g\kg	C part per million	D. part per thousand
/- Cra	azy chick disease is due	to deficiency of		
A. Vit	tamin E	A. Selenium	B Vitamin F & Salanium	C. Thiamin
8- The	c is rich	n in polyunsaturated fa	tty acids	
A. soy	ybean oil	B. coconut oil	C pannut oil	D. Palm oil
9	essent	ial for collagen formatio	n.	D. Taim on
	amin E	D. Vitamin A	E. Manganese	F. Vitamin C
10-11ight level of calcium carbonate, iron, zinc and molybdenum reduce the absorption of				
A. Cop	pper	B. Iron	C. Manganese extracellular fluids of the boo	D. Cobalt
11	Is the chief c	eation of blood plasma and	extracellular fluids of the boo	dy.
DOG	ituini	b. Chlorine	C. calcium	D. sulpher
12- Chi	icks reared on a ribo	flavin-deficient diet de	velopparalysis	
A. ner	ve degeneration	B. curled toe	C heri-heri	D. jerky
13	when rumen pH is	below 5,5 associated with	weak rumen motility	D. Jerky
A. acui	te acidosis	B. SARA	C ketosis	D. Downer cow syndrome
14	are 18- to 20-car	bon unsaturated fatty acid	s having at least two double b	onds
A. EAA	AS	B. Vitamin F	C VFAs	D I'
15	is a metabolic dis	sorder mainly of dairy cow	s close to calving due to Ca d	D. Lecithins
71. I ait	untern paresis	B. ketosis	C. pregnancy toxemia	
16	sum of all organic	digestible nutrients	- Programoj toxonna	D. SARA
A. Dige		B. Nutrients	C. NR	D TDM
	deficiency in cattle res		J. 1410	D. TDN
			****	)



قسم الفيروسات



#### DEPARTMENT OF VIROLOGY First Semester Exam, BVSc, third year

21th Jan, 2020

General virology course (25 Marks)

Time: 2 hour

#### Please Answer All the Following Questions

Group (A) (10 marks)

Although viruses are obligate intracellular parasites and rely entirely on the metabolic machinery of the host cell, they usually do not cause much harm, the main reason is that our body is not defenseless but makes use of numerous measures to keep viruses at bay.

- a) How the immune system succeeds to eliminate the virus infected cell? (2 M)
- b) Describe the mechanism of interferon action?

(3 M)

c) Mention the symmetry and function of viral capsid?

- (2 M)
- d) Mention the mechanism of antiviral and virucidal agents?
- (2 M)

e) <u>Complete the following sentences</u>

- (1 M)
- 1. Virus infection induces interferon types ......&.....
  - 0

Group (B) (6 marks)

- a) Differentiate between Haemagglutination and haemadsorption? (2 M)
- b) Classify HA viruses? (1 M)
- c) Mention viral tropism and virus variation? (2 M)
- d) Complete the following sentences

(1 M)

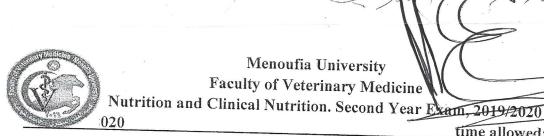
- 1. Viruses directly produce toxic product that exaggerate viral pathogenesis as... (a. Rota viruses b. Pox viruses c. Adenoviruses d. Herpes viruses)
- 2. The process by which viral infection leads to disease is ......
- (a. Viral pathogenesis b. Immune tolerance c. Shedding d. Vial tropism)

Group (C) (9 marks)

The viral replication cycle begins with virus entry and ends by shedding. All viruses must have ways of entering target cells to replicate. Two phases have developed after penetration; the eclipse phase represents the intervals between uncoating and assembled virion within the cell and the latent phase extends from assembly until the appearance of infectious extracellular virus

- a) Correct the false in the above mentioned paragraph? (2 M)
- b) Design the strategies of RNA viruses' replication and translation? (2 M)
- c) Discuss subunit vaccine? (3 M)
- d) Difference between re-combination and re-assortment? (2 M)

BEST WISHES MY STUDENTS, DR/EHAB EL-NAHAS



Please answer the all of following questions

First part the objective questions (60 questions/15 points) الاجابة في نموذج الاجابة الالكتروني

	Choose the	correct answer	
1- A dietary protein is n	ot degraded in the rum	en is referred to	
A. RUP	B. RDP	C Migrabial	
A. RUP  2- Sweet clover disease is a	ssociated withd	C. Microbial protein	D. Protected protein
A. Vitamin E	B. Vitamin K	C Vita . A	D. This
3- Manganese plays an imp	ortant role in the synthesis	of	D. Thiamin
A. Bone	B. Osteoclast	C. Chondroitin sulphate	D 011
4- Acid detergent fiber (AD	F) are	T	D. Osteoblast
A. cellulose &		C. Hemicellulose &	
hemicelluloses	B. Cellulose & lignin	lignin	D. All of them
5- The ideal DCAD in dairy	cattle is to increase	their production.	
A. +30	B50	C -250	D. +250
6- Trace element is expresse	ed in		D. 1230
A. Percent %	B. g\kg	C. part per million	D port nouthern I
<ul><li>A. Percent %</li><li>7- Crazy chick disease is due</li></ul>	e to deficiency of	1 m p m m	D. part per thousand
A. Vitamin E	A. Selenium	R Vitamin E & Calari	CTI
8- The is ric	h in polyunsaturated fa	tty acide	C. Thiamin
A. soybean oil	B. coconut oil	C poopert -il	
9 essent	tial for collagen formation	nn	D. Palm oil
A. Vitamin E	D. Vitamin A	F Manganasa	
10- High level of calcium carb	onate, iron, zinc and moly	hdenum reduce the charactic	F. Vitamin C
41. CODEC	Binon	0 > -	
11 Is the chief of A sodium	cation of blood plasma and	extracellular fluids of the have	D. Cobalt
A. sodium	B. chlorine	C. calcium	
12- Chicks reared on a ribo	oflavin-deficient diet de	ovolon	D. sulpher
A. nerve degeneration	B curled too	C have l	
13 when rumen pH is	s below 5.5 associated with	C. beri-beri	D. jerky
A. acute acidosis	B. SARA	C. ketosis	
14are 18- to 20-cal	rbon unsaturated fatty acid	c. Ketosis	D. Downer cow syndrome
A. EAAs	B. Vitamin F	is having at least two double b	
15is a metabolic dis	Sorder mainly of dainy according	C. VFAs	D. Lecithins
A. Parturient paresis	B. ketosis	s close to calving due to Ca d	
16 sum of all organic	digestible nutrients	C. pregnancy toxemia	D. SARA
A D:	B. Nutrients	C ND	
17- Zinc deficiency in cattle res	culte in	C. NR	D. TDN
in dattie les	JUI 10 111		



# Menoufia University Faculty of Veterinary Medicine

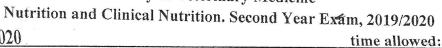
Nutrition and Clinical Nutrition. Second Year Exam, 2, 19/2020 time allowed: 2



A. Swollen hock syndrome	B. Alopecia	C. Osteomalacia	D. 6 Rickets
18- Ruminant don't have	enzyme		D. O RICKELS
E. cellulase	E guaran	G. lactase	H. protease
19is the first lin	niting A.A in soybean		11. protease
A. L-lysne	B. Dl- methionine	C. lysine	D. Methionine
20- Micelles are combination	of bile salts,8	t fatty acids	2. Meditolitic
A. Diglyceride	B. Monoglyceride	C Triclyconide	D. A, B &C
21 is phosphati	dylcholines, Important		
A. Glycolipids	B. Cephalins	C. Lecithins	D. phospholipids
E. Tyrosine			
	F. Cystine	G. Alanine	H. Histidine
23 can destro			
A. ultraviolet light  24- Vitamin Defici	B. sodium chloride	C. PUFA	D. choline chloride
24- Vitamin Defici  A. Cyanocobalamin	D. This is	tality reaches a peak between	18 to 20 days of incubation
	B. Thiamin	C. Piroxidine	D. Riboflavin
A. bacillus lechinformis	uon in poultry diets save a		
The Bachius recinifioning	B. Enzymes	C. probiotics	D. BHT
Ide	ntify the true (A)	or false (B) senten	ces
26- Antimicrobial agents can s	uppress intestinal synthesi	is of vitamin A	
27- Saturated fatty acids affect	rumen fermentation less t	than do unsaturated fatty acid	C
28- Metabolism of fat produce	s approximately 60 % of in	ts weight water	J.
29- Water requirement of lacta	ting dairy cow is 60 L		
30- Hypomagnesimia in young	calves occurs when calve	es reared on milk	
31- Microbes in the rumen can	't consume ingested protei	in to build their own bodies	
32- Deficiency in phosphorous	only causes Pica in cattle		
33-Butyric acid metabolized in	nto ketone bodies		
34- Deficiency of Nicotinamide	e causes "black tongue" i	n poultry	
35- Celluose hydrolyzed into V	FA in large intestine of e	quine and rabbit	
<b>36-</b> Crude protein content impo	ortant factor govering the	bulk of ration	
37- Wide nutritive ratio (NR) is	rich in protein		
38- VFA is short chain from fat	ty acid produced by micro	obes in rumen only	
39- Micelles are combination of	f bile salts, monoglyceride	e& fatty acids	
40- Cats don't obtain vitamin D	by exposure to sunlight		
41- Presence of blood spots in	egg due to deficiency of v	itamin A	
42- Fish most need all vitam	ins supplementation t	hrough feed	



# Menoufia University Faculty of Veterinary Medicine





- 43- Metabolic faecal protein consists of undigested fat which Consider the lipids that not absorbed
- 44- Wool is rich in methionine and contains about 4%of sulphur
- 45- In positive DCAD, more cations in feed results in more production of blood buffers.

#### Connect the correct answer from column A to column B

Column A	Column B	
46- Amylase	A- Acidification of the gut, helps in reduction of colonisation by Salmonella, Campylobacter and Clostridium.	
<b>47-</b> Saccharomyces cerevisiae	B- A starch digesting enzyme that helps to digest more of the starch found in corn	
48- Milk fever	C- Scavenge oxygen in the rumen, maintain anaerobic conditions and favoring the growth of cellulolytic bacteria	
49- Allicin	D- Defined as a condition where rumen fluid pH is below 6,0	
<b>50-</b> Fructooligosaccharides	E- Added for the stabilization of fats and to prevent the destruction of vitamin by oxidation	
51- Bacillus subtilis	F- Releases energy from the fibrous portion of grains and grain byproducts.	
<b>52-</b> Calcium formate	G- create acidic conditions and increase lactic acid formation, which are detrimental to the cellulolytic bacteria	
53- Zinc bacitracin	H- Help Monogastrics digest about 60-70% of the organic phosphorus(P) found in feedstuffs of vegetable origin	
<b>54-</b> Phytase	I- Physical adsorbents to feeds widely applied way of protecting animals against mycotoxins	
55-Butylated hydroxy anisole	J- Biological adsorbents to feeds to protecting animals against mycotoxins	
<b>56-</b> Xylanase	K- Has antibacterial, antioxidant, antiviral, antiparasitic and insecticidal functions.	
57-HSCAS	L- Controlled by DCAD from -50 to -100 mFg/kg DM	
58-B-glucan	M- Adhesion to the digestive tract wall to prevent colonization by pathogenic microorganisms	
59- SARA	N- Effective in releasing protein anti-nutrients found in ingredients like soybean meal	
60- Proteases	O- Subtherapeutic levels added to the food to enhance the rate of growth in poultry	
	P- Non-digestible ingredients that beneficially affect the host by selectively stimulating the growth of bacteria	



# Menoufia University Faculty of Veterinary Medicine Nutrition and Clinical Nutrition. Second Year Exam, 2019/2020





## Second part subjective questions (10 points) الاجابة في كراسة الاجابة

- A- Briefly illustrate each of followings (5 points only)
- 1- Effect of lipid on rumen fermentation
- 2- Factors affecting microbial digestion of C.f
- 3- Use of urea in ruminants animals.
- 4- Nutrients interrelations with examples.
- 5- Nutritional strategy to Control of milk fever.
- 6- Digestion of protein in ruminants (diagram only)

Good luck

Dr. Hamada. Ahmed

د/ حمادة عبد العزيز السيد استاذم التغذية والتغذية الأكلينيكية



#### Menoufia University Faculty of Veterinary Medicine

Nutrition and Clinical Nutrition. Second Year Exam, 2020/2021

Date:14.3.2021

model A

time allowed: 2 Hours



#### Please answer the all of following questions

I-First part the objective questions (50 questions/12.5 points) الاجابة في نموذج الإجابة الالكتروني

		the correct answer	
1- A dietary protein is no		en is referred to	***
A. RUP	B. RDP	C. Microbial protein	D. Protected protein
2- Sweet clover disease is a		eficiency	The state of the s
A. Vitamin E	B. Vitamin K	C. Vitamin A	D. Thiamin
3- Manganese plays an impe		of	
A. Bone	B. Osteoclast	C. Chondroitin sulphate	D. Osteoblast
4- Acid detergent fiber (AD	F) are		
A. Cellulose &	B. Cellulose &	C Hamicallalas & I'	D 471 0.1
hemicelluloses	lignin	C. Hemicellulose & lignin	D. All of them
5- Acetic and butyric acids i	in VFA in ruminants are u	sed in	
A. sources of energy	B. synthesis of milk fat	C. converted to glucose	D. A&B
<b>6-</b> Trace element is expresse	ed in	****	
A. Percent %	B. g\kg	C. part per million	D. part per thousand
7- Crazy chick disease is du	e to deficiency of	2	
A. Vitamin E	A. Selenium	B. Thiamin	C. Vitamin E & Selenium
8- The is ric	h in polyunsaturated f	atty acids	o. Training Coolemann
A. soybean oil	B. coconut oil	C. peanut oil	D. Palm oil
9 essen	tial for collagen formati	on.	D. Tami on
A. Vitamin E	D. Vitamin A	E. Vitamin C	F. Manganese
10- High level of calcium car	bonate, iron, zinc and mol	ybdenum reduce the absorption	of
A. Copper	B. Iron	C. Manganese	D. Cobalt
11- Methionine can be replace		ov manganose	D. Coball
A. Glycine	B. tyrosine	C. cystine	D. Lysine
12-Chicks reared on a rib	oflavin-deficient diet d	evelop paralysis	D. Lyonic
A. nerve degeneration	B. curled toe	C. beri-beri	D. jerky
13- The lipids of grasses an		e, serr serr	D. Jerky
A. Phospholipids	B Glycolinide	C. Phosphoglycerides	D. T. 111
14are 18- to 20-c	arbon unsaturated fatty ac	ids having at least two double b	D. Triacylglycerol
A. EAAs	B. VFAs	C. Vitamin F	7
		ws close to calving due to Ca d	D. Lecithins
A. Milk fever	B. ketosis	C. pregnancy toxemia	
16 are produced when			D. SARA
A. VFA	B. steric acids	C. short chain fatty acids	Di trong fatty asil-
17- Phosphorus deficiency in		c. short chain ratty acids	D. trans-fatty acids

317770



#### Menoufia University

#### Faculty of Veterinary Medicine

Nutrition and Clinical Nutrition. Second Year Exam, 2020/2021

Date: 14.3.2021 model A time allowed: 2 Hours



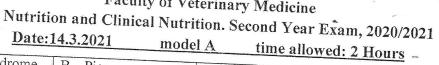
### Please answer the all of following questions

I-First part the objective questions (50 questions/12.5 points) الاجابة في نموذج الإجابة الالكتروني

1 Trist part the objecti		the correct answer	
1- A dietary protein is no		nen is referred to	• •
A. RUP	B. RDP	C. Microbial protein	D. Protected protein
2- Sweet clover disease is as	sociated withd	leficiency	
A. Vitamin E	B. Vitamin K	C. Vitamin A	D. Thiamin
3- Manganese plays an impo	rtant role in the synthesis	s of	
A. Bone	B. Osteoclast	C. Chondroitin sulphate	D. Osteoblast
4- Acid detergent fiber (ADI	F) are		
A. Cellulose &	B. Cellulose &	C Harris Hala & H.	D 471 0.1
hemicelluloses	lignin	C. Hemicellulose & lignin	D. All of them
5- Acetic and butyric acids in	n VFA in ruminants are u	ised in	
A. sources of energy	B. synthesis of milk fat	C. converted to glucose	D. A&B
6- Trace element is expresse	d in	•••••	
A. Percent %	B. g\kg		D. part per thousand
7- Crazy chick disease is due	to deficiency of		
A. Vitamin E	A. Selenium		C. Vitamin E & Selenium
8- The is rich	n in polyunsaturated f	atty acids	The state of the s
A. soybean oil	B. coconut oil	C. peanut oil	D. Palm oil
9 essent	ial for collagen format	ion.	D. Tuni on
A. Vitamin E	D. Vitamin A	E. Vitamin C	F. Manganese
10- High level of calcium carl	ponate, iron, zinc and mo	lybdenum reduce the absorption	of
A. Copper	B. Iron	C. Manganese	D. Cobalt
11- Methionine can be replace	ed partially by		D. Cooalt
A. Glycine	B. tyrosine	C. cystine	D. Lysine
12-Chicks reared on a ribo	oflavin-deficient diet o	levelop paralysis	
A. nerve degeneration	B. curled toe	C. beri-beri	D. jerky
13- The lipids of grasses and	d clovers are		D. Jerky
A. Phospholipids	B. Glycolipids	C. Phosphoglycerides	D Tricax alyeared
14are 18- to 20-ca	rbon unsaturated fatty ac	ids having at least two double b	onds
A. EAAs	B. VFAs	C. Vitamin F	D. Lecithins
15 is a metabolic di		ows close to calving due to Ca d	eficiency
A. Milk fever	B. ketosis	C. pregnancy toxemia	D. SARA
16 are produced when			D. SARA
A. VFA	B. steric acids	C. short chain fatty acids	D. trans-fatty acids
17- Phosphorus deficiency in		1 1000	2. duito taity actus



# Menoufia University Faculty of Veterinary Medicine





A. Swollen hock syndrome	R Dice	time anowed. 2	HOURS -
18- Ruminant don't have	enzyme	C. Osteomalacia	D. Rickets
A. cellulase	D		
19is the first lin	niting A A in soul	C. lactase	D. protease
1 ' X' D-1 y SITC	B DI math.		
20- Micelles are combination  A. Diglyceride	of bile solts	C. lysine	D. Methionine
21 is phosphatic	dylcholines Important	C. Triglyceride	D. A, B &C
22is esse	ntial amino saida in L	C. Lecithins	D. phospholipids
A. Lysine	B. Cystine	T	· ·
23 can destro	v vitamine during	C. Alanine	D. Histidine
		age	
A. ultraviolet light	B. sodium chloride	C. PUFA	
24- Vitamin Deficie	ency led to Embrus	1.	D. choline chloride
24- Vitamin Deficie  A. Cyanocobalamin	B. Thiamin	lity reaches a peak between 18	to 20 days of incubation
25 Supplementation	n in poulter. 1'	C. Riboflavin	D. Piroxidine
25 supplementatio  A. bacillus lechinformis	n in poultry diets save abo	out 100 LE/ ton feed.	
The recition of this	B. Enzymes	C. probiotics	D. all of them
В-	Identify the true (	A) or false (B) senter	an of them
26- Saturated fatty acids affect	S Comments	A) of false (B) senter	ices
26- Saturated fatty acids affect a 27- Oxidation of fat produces of	rumen termentation less t	han do unsaturated fatty acids.	
or rate produces a	pproximately 60 % of ita	Troi al. t	
28- High fibrous diet like dry ro	oughages decrease water re	equirement than less fibrous di	et.
Tan tan thive for at mos	unree days if not provide	od 141 1 1 1 1 1	
analyzed	by Slaughter and chamias	1 - 1 :	
Soundin is important part of	an enzyme glutothions	• 1	
32- water requirement of lactati	ng dairy cow is 40 I par	don	
33- Wost of the feed and forage:	s are poor source of soding	m.	
34- All enzymes and hormones a	re protein in nature		
35- Microbes in the rumen can't	consume ingested protein	to build their own L. I'	
Zeneralicy in Zinc only caus	es Pica in cattle		
37- The NDF consist of cellulose	, hemicellulose lionin ci	lice and and	
38- Deficiency of Nicotinamide of	causes "black tongue " in r	acultaria	
39-Biotin is important in hair hea	alth.		
40- Crude protein content importa	ant factor governing the b	2.11c - C	
41- Antimicrobial agents can supp	press intestinal synthesis	ulk of ration	
42- VFA is short chain from fatty	acid produced by microb	or vitamin A.	
Page   2	· · · · · · · · · · · · · · · · · · ·	os in rumen only	Ŷ ·



## Menoufia University

#### Faculty of Veterinary Medicine

#### Nutrition and Clinical Nutrition. Second Year Exam, 2020/2021

Date:14.3.2021 model A time allowed: 2 Hours



- 43- Carbohydratase are effective in releasing protein anti-nutrients found in ingredients like soybean meal.
- 44- Cats don't obtain vitamin D by exposure to sunlight
- 45- Fish most need all vitamins supplementation through feed.
- 46-Chylomicron is responsible for transportation of dietary fat to various tissues in the body
- 47- Metabolic faecal protein consists of undigested fat which Consider the lipids that not absorbed
- 48- Crud fiber content in the diet causes impaired absorption of calcium
- 49- Wool is rich in methionine and contains about 4% of sulphur
- 50- In ruminant, strains of Lactobacilli and Streptococci have been used as probiotics.

#### II- Second part subjective questions (12.5 points) الاجابة في كراسة الاجابة

#### A- Connect the correct answer from column A to column B (4 marks)

Column A	Column B	
1- Amylase	A- Acidification of the gut, helps in reduction of colonisation by Salmonella, Campylobacter and Clostridium.	
2- Saccharomyces cerevisiae	B- Adhesion to the digestive tract wall to prevent colonization by pathogenic microorganisms	
3- Calcium formate	C- Scavenge oxygen in the rumen, maintain anaerobic conditions and favoring the growth of cellulolytic bacteria	
4- Xylanase	D- A starch digesting enzyme that helps to digest more of the starch found in corn	
5- Fructooligosaccharides	E- Releases energy from the fibrous portion of grains and grain byproducts.	
6- Bacillus subtilis	F- Inhibit the growth of certain intestinal pathogenic species by increasing the concentration of lactic acid which will decrease the pH in the lower gut.	
8	G- Effective in releasing protein anti-nutrients found in ingredients like soybean meal	
Column A	Column B	
7- Lysine	A- Reduce oxidative stress in the body by increasing glutathione.  Important in muscle mass and feather development	
8- Methionine	B- Was chosen as the reference amino acid for the "ideal protein" concept.	
9- Threonine	C- Effect on the gene expression and the synthesis of the ghrelin hormone which regulate the appetite.	
10- Tryptophan	D- Involved in maintenance processes, like the renewal of intestinal mucus and the synthesis of immune proteins.	
	E- Regulates key metabolic pathways to improve health, survival, growth, development, lactation and reproduction.	

فرقة ثالث .



# Menoufia University Faculty of Veterinary Medicine

Nutrition and Clinical Nutrition. Second Year Exam, 2020/2021

<u>Date:14.3.2021</u> model A time allowed: 2 Hours



Column A	C. I.
11- Zinc bacitracin	A Help Monogastrics digest about 60-70% of the organic phosphorus(P) found in feedgraffer.
12- Phytase	phosphorus(P) found in feedstuffs of vegetable origin  B- Physical adsorbents to feeds widely applied way of protecting animals against mycotoxins
13- Butylated hydroxy anisole	C- Biological adsorbents to feeds to protecting animals against mycotoxins
14-HSCAS	D- Has antibacterial, antioxidant, antiviral, antiparasitic and insecticidal functions.
15- Allicin	E- Added for stabilization of fats and to prevent the destruction of vitamin by oxidation
16-B-glucan	F- Subtherapeutic levels added to the food to enhance the rate of growth in poultry
	G- Non-digestible ingredients that beneficially affect the host by selectively stimulating the growth of bacteria.

# H-Briefly illustrate each of the followings (8.5 marks) 7 points only.

- 1- Factors affecting microbial digestion of C.f
- 2- Use of urea in ruminants animals.
- 3- Nutrients interrelations with examples.
- 4- Food fat and nature of milk and body fat in ruminants.
- 5- Calcium only supplements.
- 6- Digestion of protein in ruminants (diagram only if possible).
- 7- Nutritional disorders in poultry.
- 8- Role of vitamins in animal nutrition.

Good luck

Prof. Dr. Hamada. Ahmed





Faculty of Veterinary Medicine Department of Bacteriology, Immunology and Mycology Exam of General Bacteriology 2020

Third year

Time: Two hours

Total marks: 25

#### I- Write (a) for true and (b) for false for following statements: (5 marks)

1-The capsule are polysaccharide in all bacteria except in Brucella are polypeptide.

a- True

b- False

2- Microaerophilic bacteria are grow in high amount of oxygen and 5-10 % of CO2

a- True

b- False

3- In anaerobic bacteria oxygen is not toxic

a-True

b- False

4- The bacteria can be isolated from very hot weather are called Psychrophilic

a. True

b- False

5 - The first antibody appear in blood is IgG

a- True

b- False

6- Plasmid is essential structure of bacteria

9- True

b- False

7- Spore of bacteria occur in unfavorable condition

- True

b- False

8- Spore formation in bacteria is one of the methods of reproduction

a- True

h Falca

9- There is no change in the size of bacteria during lag phase

a\_ True

b- False

10-Organ of respiration in bacteria is mitochondria

a- True

b-False

# II- Each questions below contains suggested answers choose the one best response to each question (5 Marks)

1- Zero growth rate in observed during one of the phase bacterial growth curve

a- Lag phase

b- log phase

c- Stationary phase

d- Decline phase

d- Fontana s stain

2- One of the following methods is an example of negative stain to detect of capsule

a- Gram's stain b- Zeihl Neelson c- India ink stain 3- Characterizes of exotoxins include all except

a- Heat labil

b- Highly toxic

c- Highly antigenic

d- Lipopolysaccharide

4- Synthetic molecule that bind the receptors on Bell, but does not stimulise their production

antibodies unless unlee it is conjugated with bigger immunogene molecule is

	<i>f.</i>		
a- Adjuvans	b- Haptan	c- Carrier	
5-Which of the fo	llowing antibodies cross t	c- Carrier	d- Antibody
a-IgG	b-IgA	nrough placenta	
	0-1gA	c- IgM	d-IgL
6- All the following	·		u-igr
2. They mad' at 1	ng are true concerning pili	except	
" Indy miculate Da	Cierial adherence	1 0004	olved in bacterial conjugation
c- Their antigen is	called H- antigen	d. The one in-	orved in bacterial conjugation
7- Treatment of ba	cterial culture with gentar	d- The are importan	t virulence factors
maximal effect on	with gental	nyem, an inhibitor of p	rotein synthesis, would have
a- Lag phase b-	· Ing phase		
8- The characterist	ic shape of the bacteria is	ry phase d- Decl	ine phase
a- Cell wall	r or the bacteria is	maintained becourse of	
9- Which of manti-	b- Capsule	c- Pilli	d-Mesosome
a-Baconbil			n intesosome
10- Non specific im	nmune mechanism do not	include	d- Neutrophil
a- Complement	b- Chemokinase	morade .	
		c- Memory cell	d- Interferon
III- Define of th	e following (2		
1- Psychrophilic bac	e following (3 marks)	):	140
1 3 cm opinite bac	cteria 2- Hanta	in a r	

# IV- Give the reason for (3marks):

1- Oxygen is toxic to some bacteria and how bacteria detoxify toxic oxygen metabolites 2- The number of viable bacteria decreases during the decline phase

2- Haptan

5- Immunogene

- 3- The intact skin is consider first line of defense

# V- Compared on the following (3marks):

- 1- Cell wall of Gram positive and Gram negative
- 2- Innate and adaptive immunity

4- Microaerophilic bacteria

# VI- Explain on the following (6marks):

- 1 Virulence factors of bacteria
- 2- Laboratory diagnosis of dermatophytes
- 3- Humeral immune response
- 4- Second line of defense

Good Luck

3- Bacterial plasmid

6- Bacterial toxoid

AShraf Amad. Prof. DR. Ashraf Awaad



Date: 28 / 12 / 2019

# Menoufia University Faculty of Veterinary Medicine

#### Pharmacology Department





38- Act as aldosterone antagonist A. Acetazolamide B. Metolazone C. Furosemide D. Spironolactone 39- Contraindicated to be given with furosemide in case of ototoxicity. A. Sulphonamide B. Penicillins C. Aminoglycoside D. both B& C 40- Urea acts as diuretic by A. Block Na channel B. Block NCCtransport C. Block K channel D. Osmosis 41- Amiloride what type of diuretic? A. K sparing diuretic | B. Ca sparing diuretic C. Na sparing diuretic D. Both B & C 42- Furosemide induce metabolic acidosis while acetazolamide induce metabolic alkalosis A. True B. False 43- Calcium carbonate evacuate A. Salt +H2O+ CO2 B. Salt +H2O C. H2O D. None of them 44- This type of drug acts as purgative A. Nicotine B. Lactulose C. Muscarine D. Atropine 45- Nicotine in small dose stimulate A. B receptors B. a receptors C. Autonomic ganglia D. smooth muscle 46- One of the side effect of thiazide diuretics A. Hyperlipidemia B. Hypercalcemia C. Hyperuricemia D. All of them 47- Type of drug would not increase sympathetic activity. A. Noradrenaline B. Phenylephrine C. Amphetamine D. Pilocarpine 48- All pregandlionic neuron secrete A. Adrenaline B. Acetylcholine C. Atropine D. Dopamine 49- The synthesis of noradrenaline is prevented by A. Resepine B. Pilocarpine C. Alpha methyl Dopa D. Epherdine 50- Which of the following drug would not increase sympathetic activity A. Pilocarpine B. Amphetamine C. Phenylephrine D. Norepinephrine 51- Used as long acting bronchodilator A. Propranolol B. Salmetrol C. Salbutamol D. Timolol 52- The drug of choice for anticholinergic drug toxicity. A. Succinyle choline B. Acetylcholine C. Methacholine D. Both A& B 53- Propranolol act on what type of receptor? Α. β1 & β3 Β. α1& α2 C. \(\beta\)1 & \(\alpha\)2 D. B1 & B2 54- This type of drug act as specific antidote of organic phosphorus compound toxicity A. Neostigmine B. Amphetamine C. Pilocarpine D. Pralidoxime 55- What effect does clonidine have? A. Vasodilation **B.**Bronchodilation C. Hypoglycemia D. All of them 56-Dobutamine act on what type of receptor? Α. β1 & β2 Β. β1 C. a1& a2 D. β2 & β3 57- Curare is usually given before surgical operation to A. Induce B. Prevent bronchial C. Relax skeletal muscle D. All of them bronchodilation secretion

58- Contraindication	ons for adrenergic blockers		
A. Hypotension	B. Diabetes		*
	ng is an example of choline	C. bronchial asthma	D. Both B & C
A. Atropine	B. Hyoscine		<u> </u>
	e following used to treat p	C. Neostigmine	D. Succinylchoilne
A. Dopamine	D Hamishali		
zz. z opamme	B. Hemicholinum	C. Atropine	D. Bethanechol

# Second part subjective questions (10 marks) الاجابة في كراسة الاجابة

5 5	* * *
1. Briefly describe each of the followings	(5 marks)
a. Corticosteroids side effects.	(2.5 m)
b. Therapeutic uses of barbiturates.	(2.5  m)
2. In table compare between the following according to action of	mechanism (5 marks)
a. Cimetidine and omeprazole as anti-acid drug.	(1 m)
b. Spironolactone and Furosemide as diuretic.	(1 m)
c. Phentolamine and reserpine as sympatholytic.	(1 m)
d. Magnesium sulphate and bran as purgative.	(1 m)
e. Na acetyl cysteine and Bromhexine as mucolytic.	(1 m)

Good luck
Dr. Mohamed El-Hewaity
Dr. Amany El-Mieeh





Faculty of Veterinary Medicine Department of Bacteriology, Immunology and Mycology Exam of General Bacteriology 2020

Third year

Time: Two hours

Total marks: 25

#### I- Write (a) for true and (b) for false for following statements: (5 marks)

1-The capsule are polysaccharide in all bacteria except in Brucella are polypeptide.

a- True

b- False

- 2- Microaerophilic bacteria are grow in high amount of oxygen and 5-10 % of CO2
- a- True

b- False

- 3- In anaerobic bacteria oxygen is not toxic

b- False

- 4- The bacteria can be isolated from very hot weather are called Psychrophilic
- a- True

b- False

- 5 The first antibody appear in blood is IgG
- a-True

b- False

- 6-Plasmid is essential structure of bacteria
- a- True

b- False

- 7- Spore of bacteria occur in unfavorable condition

b- False

- 8- Spore formation in bacteria is one of the methods of reproduction

b- False

- 9- There is no change in the size of bacteria during lag phase

b- False

- 10-Organ of respiration in bacteria is mitochondria
- a- True

b- False

#### II- Each questions below contains suggested answers choose the one best response to each question (5 Marks)

- 1- Zero growth rate in observed during one of the phase bacterial growth curve
- a- Lag phase
- b- log phase
- c- Stationary phase
- d- Decline phase
- 2- One of the following methods is an example of negative stain to detect of capsule
- a- Gram s stain
- b- Zeihl Neelson India ink stain
- d- Fontana s stain

- 3- Characterizes of exotoxins include all except
- a- Heat labil
- b- Highly toxic
- c- Highly antigenic
- d-Lipopolysaccharide
- 4- Synthetic molecule that bind the receptors on Bell, but does not stimulise their production antibodies unless unlee it is conjugated with bigger immunogene molecule is

a- Adjuvans 5-Which of the fo a-IgG	be Haptan Ilowing antibodies cross to b-IgA	c- Carrier hrough placenta c- IgM	d-Antibody d-IgE
a-They mediate ba c. Their antigen is 7- Treatment of ba maximal effect on	acterial culture with gentar	b-The may be involved. The are important of mycin, an inhibitor of pro	ved in bacterial conjugation virulence factors otein synthesis, would have
a- Lag phase b 8- The characterist	Log phase c-Stationatic shape of the bacteria is	ary phase d- Declin s maintained because of	e phase
a-Con wan	b- Capsule	c- Pilli	Masasama
10- Non specific in	oned are present on the pleasinophil  nmune mechanism do not	ace of infecton by worm c-Monocyte	d- Neutrophil
a-Complement	b- Chemokinase	e-Memory cell	d- Interferon
III- Define of the	he following (3 marks	s):	

#### IV- Give the reason for (3marks):

1- Oxygen is toxic to some bacteria and how bacteria detoxify toxic oxygen metabolites

5- Immunogene

2- Haptan

- 2- The number of viable bacteria decreases during the decline phase
- 3- The intact skin is consider first line of defense

#### V- Compared on the following (3marks):

- 1- Cell wall of Gram positive and Gram negative
- 2- Innate and adaptive immunity

1- Psychrophilic bacteria

4- Microaerophilic bacteria

#### VI- Explain on the following (6marks):

- 1 Virulence factors of bacteria
- 2- Laboratory diagnosis of dermatophytes
- 3- Humeral immune response
- 4- Second line of defense

Good Luck A Shruf Amad.

3- Bacterial plasmid

6- Bacterial toxoid

Prof. DR. Ashraf Awaad



a- Gram s stain



Faculty of Veterinary Medicine Department of Bacteriology, Immunology and Mycology Exam of General Bacteriology 2021

Time: Two hours Third year

Total marks: 25

## I- Each questions below contains suggested answers choose the one best response to each question (25 Marks)

1- The toxoid is formed by adding b-0.3% formalin to exotoxins a- 0.3% formalin to endotoxin d-0.3% phenol to endotoxin c- 0.3% phenol to endotoxin 2- In anaerobic bacteria b- Oxygen is toxic a-Oxygen is not toxic d-Peroxidase enzyme present c- Catalase enzyme present d-Bacillus anthracis c- Brucella b-Salmonella a- E coli 4- The bacteria can be isolated from very hot weather are called c-Thermophilic b- Mesophilic a- Psychrophilic 5- Teichoic acid is present in cell wall of d- Archaea b- Gram negative bacteria c- Fungi a-Gram positive bacteria 6- Stationary phase of the bacterial growth curve b- is a time in which cells increase in number a- is a time in which cells do not divide d- is a time in which cells equilibrate c- is a time in which cells susceptible to antibiotic 7-Which of the following bacteria can grow in acidic pII d- Salmonella c- Shigella b- Lactobacillus a- Vibrio 8- The structure of bacteria which paly primary role in respiration and secondary role in cell d- Cell membrane c- Choromosome b- Ribosome a- Mesosoms division 9 Virulence factor of bacteria is d- Capusle c- Ribosome b- Mesosoms a- Cell wall 10- A tuft of flagella arise from each poles of bacterial cell is b- Amphitrichous c - Lophotrichous d-Peritrichous a- Monotrichous 11- Zero growth rate in observed during one of the phase bacterial growth curve d- Decline phase c- Stationary phase b- log phase a- Lag phase 12- One of the following methods is an example of negative stain to detect of capsule d- Fontana s stain c- India ink stain b- Zeihl Neelson

13- Characterizes of exotoxins include all ex	cept	
a- Heat labil b- Highly toxic c-	-	d- Lipopolysaccharide
14- Toxoid are		
<ul><li>a- Antigenic part and toxic part</li><li>c- Non antigenic part and toxic part</li></ul>	b- Antigenic pa	rt and non toxic part
		c part and non toxic part
15- Mesophilic organism are that grow best	temperature of	
a: -20C - 70C b: 55C- 80C c:	20C - 40C	d: 10C - 70C
16- Bacterial cells lyse, releasing many new l		
a-Lytic cycle b- Lysogenic conversion		cle d- Conjugation
17- All the following are true concerning pil		avaluad in bacterial comissection
a-They mediate bacterial adherence c- Their antigen is called H- antigen		
18- Treatment of bacterial culture with genta		
have maximal effect on	amyom, an immonor	of protein synthesis, would
a- Lag phase b- Log phase c-Stationa	arv phase d- I	ecline phase
19- The characteristic shape of the bacteria	* 1	
a- Cell wall b- Capsule		d-Mesosome
20 -The association of endotoxin in gram ne		
a-Peptidoglycan b- Lipopolysaccharic		
21- The fine filamentous appendages arising		
known a- plasmid b- Flagella	c- Mesos	ome d- Ribosome
22- Protoplasm may possess the following a		
d- All above structure		4
23 -Extra-chromosomal, circular, double str	randed and self-repl	ication DNA molecule in
bacteria is called		
	c- Phagemid	d- Phasmid
24- All bacteria have cell wall except	Danie alla	J. Dustassualla
a- Mycoplasma b- Mycobacerium	c- Brucella	d- Pasteurella
25- Sex pili paly role in a- Transduction b- Transformation	a Conjugation	d Mutation
II- Write (T) for true and (F) for false		itements : ( zomarks)
26- Organ of respiration in bacteria is mitoch		
a- True	b- False	
27 The capsule and flagella of bacteria can obser		smears
a-True	b- False	-4:
28- Spore formation in bacteria is one of the		cuon
a-True	b- False	
29- Lipid A is present in cell wall of Gram n-	egative bacteria	
a-True	b- False	nber
30- In lag phase of bacterial growth, the bact		iber
a- True	b- False	
31-Staphylococcus auerus appeared as golde	en yellow colonies w	when grow in solid media due to
produce exopigment		
a- True	b- False	

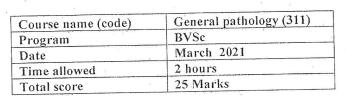


ribosomes

A True

B False

#### Departement of pathology Faculty of veterinary medicine Menoufia university





All quistions should be answered:
Part I: Choose the correct answer (20 marks)
Q1. Pathology is the study of the <u>structural</u> , biochemical, and <u>functional</u> changes in cells, tissues, and organs
that undarlia disease.
A True B False C True if the word structural removed True if the word functional removed
Q2are reversible functional and structural responses to changes in physiologic states and some
pathologic stimuli allowing the cell to survive and continue to function.  (B) Necrosis (C) Adaptations (D) Anthracosis
(a) (nonfocio
Q3one of the four final common biochemical mechanisms leading to cell injury.  © Lipidosis © Amyloidosis
Q4. The influx of water along with sodium ions to the cell when the Na+/K+ pumps fail called
Hydropic degeneration     B Hypertrophy     C Ischemia     B Healing     C Ischemia     C I
Q5
other nutrients to the cell, as well as decreased removal of metabolic wastes  (A) Hyperemia (B) Edema (C) Congestion (D) Ischemia
A Hyperemia (B) Edema (C) Congestion (D) Ischemia  Q6. Glycolysis leads to an accumulation of <u>lactate</u> with <u>decreased</u> intracellular pH, and produces heat
- I I I I I I I I I I I I I I I I I I I
O7 liver effected with Hydronic degeneration increased in weight, pale and swollen with rounded edges.
A True B False © True if pale replaced by bright red © True if increased replaced by decreased
Q8. Disruption of the intracellularbalance is integral to the transition from potentially reversible acute
cell swelling to irreversible injury and cell death.
(a) Vitamin C (b) Sodium ion (c) MS222 (c) Calcium ion
On EM exemination of acute swollen enithelia showed loss of cilia & microvilli & develops cytoplasmic blebs
(a) True (B) False (C) True if loss replaced by increasing (D) True if "blebs" replaced by inclusions
Q10. Normal endothelium is prothrombotic and antifibrinolytic.
(A) True (B) False
Q11. Necrotic cell death elicits an inflammatory reaction because of the release of cell contents into the ECM.
(A) True (B) False (C) True if elicits replaced by doesn't elicit (D) True if necrotic replaced by apoptotic
O12. If cell fails to restore mitochondrial function, acute cell swelling becomes irreversible causing cell death.
(a) True (b) False (c) True if irreversible replaced by reversible
Q13 is a gross lesion for the myocardial and skeletal muscle necrosis in white muscle disease.
Anthracosis B Calcification © Ictrus D edema
Q14. Soon after cell death, necrotic tissue may have the same macroscopic features of acute cell swelling.
A True B False
Q15. Dead cells tend to have intense cytoplasmic eosinophilia due to the denatured protein and loss of