	Q16. Necrosis has been classified traditionally as coagulative,, liquefactive, and gangrenous
	Oncogenic (b) Nuclear (b) Caseous
	Q17. Macroscopically,may appear as crumbled, granular, or laminated yellow-white exudate
	content of a grantifornia of a chronic abscess.
	Metaplasia B Fibrosis © Caseation D Regeneration
	Q18 Necrosis is typically the final stage of necrosis in parenchyma of the brain or spinal cord. (A) Gangrenous (B) Liquefactive (C) Coagulative (C) Caseous
	Q19. The term used for the macroscopic appearance of necrosis in the brain and spinal cord is
	Hemorrhage B Dry gangrene C Malacia B Gas gangrone
	Q20. Dry gangrene is the result of decreased vascular perfusion and/or loss of blood supply.
	o True B False
	Q21. Fat necrosis can be classified etiologically as enzymatic, traumatic, and
	Ischemic B Idiopathic C Hyperemic D Hemographic
	Q22 is a type of cell death induced by a tightly regulated suicide program that degrace
	cells' own nuclear DNA and nuclear and cytoplasmic proteins.
	Apoptosis B Necrosis C Lipidosis D Amuloidosis
	Q23 is abnormal differentiation with features of cellular atypia
	A Metaplasia B Hypertrophy © Dysplasia D Anaplasia
	Q24is a change from one differentiated cell type to another of the same germ layer
	Metaplasia B Hypertrophy © Dysplasia D Anaplasia
	Q25is the accumulation of lipids within parenchymal cells.
	Apoptosis B Necrosis C Lipidosis Mecrosis Amyloidosis
	Q26. Histologically, lipid vacuoles sharply defined, unstained & displace the nucleus to the periphery of calls.
	o rue braise
	Q27. Amyloid has characteristic apple-green birefringence in polarized light, especially with the
	O HAE Sudan III C Congo red (D) Alizarin red
	Q28. AL amyloidosis can be systemic or localized
	(a) True (b) False
	Q29. "Hyaline" used for intra or extracellular proteinaceous substances that take up eosin homogeneously.
	True B False
	Q30. Cholesterol crystals often form in tissue at sites of hemorrhage or necrosis.
	(A) I rue (B) False
	Q31. Pathologic calcification refers to the deposition of calcium salts in soft tissues.
	(B) False
	Q32. Soft tissue calcification as the result of elevated serum calcium concentration is termed
	(a) metastatic calcification (b) Necrosis (c) dystrophic calcification (d) Authoropsis
	Q33. The calcification of dead tissue as part of the process of necrosis is called.
	metastatic calcification (B) Necrosis (c) dystrophic calcification (D) Anthroposis
8	Q34. The major dust inhaled by coal mine workers is carbon, so this form of pneumoconiosis is called
	metastatic calcification Necrosis O dystrophic calcification Anthroposis
1	Q35. Deficiency of ATP causes failure of Na+/K+-ATPase numbs with influx of into the outpoon
	\mathbb{R}^+ , Ca2+, and water \mathbb{R}^+ K+ Mg2+ and water (c) Na+ Ca2+ and Mg2+ \mathbb{R}^+ Na2+
(250. Septic abscesses originate from incompletely degraded foreign bodies, whereas sterile abscesses are
1	tom bacterial injection
	A True B False

Q29. Gangrene is invasion and putrefaction of necrotic tissue by	
a. Saprophytic bacteria b. pyogenic bacteria c. none of them d. both of the	em.
Q30. secondary Gangrene occurs if the m.o. induce necrosis and putrefaction of the tissue	
a. True b. false	
Q31. In Mucoid degeneration the organ appear translucent jelly like and flabby.	
a.) True b. false	
Q32. In Hyalinosis the tissue transformed into into homogenous structureless translucent smooth mater stained more eosinophilic	ial and
a. True b. false	
Q33. is seen in the acini of the mammary gland, lung alveoli and prostate glands. It appears as round, homogenous, or concentrically laminated pink bodies with basophilic tint Q34. They are seen in plasma cells in chronic inflammation Q35. hyaline globules inside the cytoplasm of degenerated liver cells of alcoholic drinkers	sts odies
	*
Q36. Hyaline degeneration is irreversible condition and the affected tissue may be calcified (dystrophic	2)
a. True b. false	
Q37. Ultrastructurally, the amyloid consists principally of fibrillar protein and small separate compone glycoprotein.	nts of
a. True b. false	
Q38. The amyloidosis in the kidney is irreversible and may leads	s to
a. Uremia b. hypertension c. general edema d. all of then	1.
Q39. The gout is an indicator of disturbance in	
a. Fat b. protein c. carbohydrates d. mineral	
Q40	ım and
a. Lipidosis b. lipomatosis C. Lipoidal degeneration 6. fatty	change
Q41It is the deposition of silver salts in the skin, conjunctiva and internal organs prolonged medication of silver drugs	due to
a. Argyrosis b. Plumbism c. siderosis d. anthracosis	
Q42. Redness, Vesicle formation, Water discharge and Necrosis of the epidermis are lesio in	n seen
a. Photosensitization b. Lipochromatosis c. xanthomatosis c. hemosedros	is

Q43
Q43
C. Acanthogia nigri
and evaces c
a. Metastatic calcification D. Dystrophic calcification C. Calcinosis circumscripta in
a.Local active hyperemia b. local passive hyperemia c. general active hyperemia d. none of the causes of chronic constant.
Q46.the causes of chronic general venous congestion are present in two
Freedy III two II
a. Liver and lung b. lung and spleen c. liver and spleen d. none of them
Q47. Pulmonary fibrosis as in case of any
c. Chronic general congection
Q48. heart failure cells can be seen in. a. CVC of lung b. CVC of heart c. CVC of liver d. none of them
Q49. cardiac fibrosis can seen in d. none of them
a. CVC of lung b. CVC or
a. CVC of lung b. CVC of heart c. CVC of liver d. none of them 4. Hemotherm d. none of them
a. Hemothorax b. Hemoarthrosis c Hematocele d. Hemoptysis
Q51indicates hemorrhage from uterus
a. Epistaxis b. Hemoptysis c.Hematomesis d. Metrorrhagia
O52. Inflammation is the result of the resul
Q52. Inflammation is the reaction of vascularized living tissues to local injury. a. True b. Folso
b. False
Q53. Increased flow of blood to injured tissue (vasodilation), is responsible for a. Pain b. Redness and heat c. Loss of function d. None of them
Q54 per acute inflammation has a short duration, ranging from a few hours to a few days. a. True b. False
Q55. Fluid with minimal protein and it
Q55. Fluid with minimal protein and is essentially an electrolyte solution like that of plasma. Q56. An opaque and often viscous fluid that contains more protein and more leukocytes. a. Neutrophils Q57. Are two types mucosal and connective tissue express high contains the contains the contains and more leukocytes.
Q57. Are two types mucosal and connective tissue express high affinity receptors for immunoglobulin E on their surface.
immunoglobulin E on their surface. Transducte immunoglobulin E on their surface. C. Mast cells d. Exudate
Q58. The inflamed area is painful because pressure on nerve ending by exudate (edema) and Liberated chemical mediators from damaging cells
a. True b. False

Q64. Occurs immediately after injury unless there is a clotting disorder	A First intentio	
Q65. Phase begins only after inflammation and proliferation phases successfully completed.	B Proud flesh	
Q66. Healing occurs in nonseptic wounds	© Remodeling © Hemostasis	
Q67. Excessive granulation can lead to a type of hypertrophic scar called	© Edema	
Q68. Movement of intravascular fluid through inter-endothelial gaps into the interstitium		
A True B False Q70. Which one of the following is not a cause of general edema. A Sever parasitic infestation B Nephrotic syndrome Hepatic failure no		
Q71. Pinpoint hemorrhage occurs mainly because of diapedesis with minor vascular damage (Embolus		
Q72. An aggregate of platelets, fibrin, and other blood elements formed on a vascular wa	II B wedg	
Q73. A piece of free-floating foreign material within the blood.	shaped	
Q74. An arterial infarct will often	© A petechia	
Q75. occurs when infarcted tissue is invaded by saprophytic bacteria	© gangrene © A thrombi	
Q76. Which one of the following is not a cause of infarction A Thrombus B external pressure D both of them D non of them Q77. outcomes of coagulative necrosis may be: A liquefaction B mineralization C sequestration D All of them	non of them	
Q78. molecules generated in an area of inflammation that modules the inflammatory		
process in some way	B swelled	
Q79. Large, multinucleated cells that arise from the fusion of macrophages	© lymphocyte	
Q80. If there is significant fibrosis, the surface of the chronic inflammation will be	D giant cells	
	E chemic	
	mediators	

2- Morphologic pictures of chronic venous congestion of lung and liver.

Good luck

O37. The presence of	
Q37. The presence of hemosiderin-laden macrophages is an indicator of chronic passive Q38. The end product of	
O38. The end produce of Chronic passive	congestion.
Q38. The end product of protein and purine metabolism in birds is uric acid, while in ma Q39. Acute inflammation is the	
O39 Acute in S	ammals is urea.
Q39. Acute inflammation is the progressive reaction of vascularized living tissue to injur Q40. Acute inflammation I	*
O40 A cute in G	ry over time.
A True	
Q40. Acute inflammation has a short duration, ranging from a few hours to a few days. O41 cores in the B False	
Q41. some inciting substances can invoke chronic inflammation directly and almost important Q42. Increased flow of the state of the sta	
O42 Increase 1.3	mediately.
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Pain B Redness and heat C Loss of function None of them	
O43. Fluid with mining to the Doss of function None of then	n
Q43. Fluid with minimal protein and is essentially an electrolyte solution like that of plasma Q44. An opaque and often viscous fluid that contains more protein.	
Q44. An opaque and often viscous fluid that contains more protein and more leukocytes.	
Q45. Important plasma protein in exudates that polymerizes extravascular to form fibrin.	Neutrophils
Q46. The first leukocytes to enter the exudate Q47. Rich in historia.	(0) T
e services in distamine and widely distributed in connective tissue and	Mast cells
Q48 essentially creates a pathway for leukocytes to follow to reach the sit Q49. In acute inflammation at	© Exudate
(A) Pain (B)	
Q49. In acute inflammation, the net outflow of fluid into extracellular to Wound hea	e of tissue injury
	1:
resorntion by poster-ill	iing
postcapillary venules and lymphatic vessels.	s the capacity for
True B False	s the capacity for
A True B False Q50. Express high-affinity Inc.	s the capacity for
A True B False Q50. Express high-affinity IgE receptors, similar to mast cells	s the capacity for
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Of True B False Q50. Express high-affinity IgE receptors, similar to mast cells Q51. The avian, rabbit, and guinea pig neutrophil equivalent is termed Q52. Leukocytes exit the central region of the vascular lumen and move to the periphery Q53. Recruited from the bloodstream to vascularized tissue in allergic and parasitic diseases. Q54. Initial contact between leukocytes & endothelium by transient, weak binding Q55. Vascular Endothelial Cells regulating: A Hemostasis/coagulation Angiogenesis Leukocyte homing None of them Decay rapidly and destroyed enzymatically B Scavenged by protective D57. A collection of pus circumscribed by a fibrous capsule that is visible grossly is called Caseation B Abscess Calcification None of them E All of them Q58. Rapidly enhances vascular permeability A Resolution Q60. Type of inflammation power.	A Margination B Rolling E Eosinophils B Basophils Heterophils All of them we mechanisms
True	A Margination B Rolling C Eosinophils D Basophils F Heterophils C All of them we mechanisms
True	A Margination B Rolling C Eosinophils D Basophils F Heterophils C All of them we mechanisms
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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

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

b- False

6- Plasmid is essential structure of bacteria

a- True

b- False

7- Spore of bacteria occur in unfavorable condition

a- True

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

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

a- Adjuvans b- Haptan c- Carrier 5-Which of the following antibodies cross through placenta d- Antibody a-IgG b-IgA d-IgE 6- All the following are true concerning pili except a-They mediate bacterial adherence b-The may be involved in bacterial conjugation c- Their antigen is called H- antigen d- The are important virulence factors 7- Treatment of bacterial culture with gentamycin, an inhibitor of protein synthesis, would have a- Lag phase b- Log phase c-Stationary phase 8- The characteristic shape of the bacteria is maintained because of d- Decline phase a- Cell wall b- Capsule c- Pilli 9- Which of mentioned are present on the place of infecton by worm d-Mesosome a-Basophil b- Easinophil c-Monocyte 10- Non specific immune mechanism do not include d-Neutrophil a- Complement b- Chemokinase c- Memory cell d- Interferon

III- Define of the following (3 marks):

1- Psychrophilic bacteria 2- Haptan 4- Microaerophilic bacteria 5- Immunogene

3- Bacterial plasmid 6- Bacterial toxoid

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

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

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

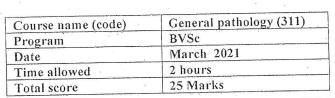
Good Luck

AShrug Amad. Prof. DR. Ashraf Awaad

c- Milk agar d-Baired parker media a- Mannitol salt agar b- EMB media 33- McFadyean's reaction is employed for the presumptive diagnosis of d- All of these a- Anthrax b- Tetenus c- Typhoid 34- BCG vaccine used for protection from b- Leptospira c- Mycobacterium d- mycoplasma a- Listeria 35-Baired Parker medium is used for cultivation of a Staphylococcus aureus b- proteus c- Haemophilus d- Campyiobacter 36- Among the following which is positive for coagulase test? b. Staphylococcus epidermidis a. Staphylococcus aureus c. Staphylococcus saprophyticus d. All of the above 37- Bacteriological stain used to identify acid-fast organisms, what is the name of the stain? b. Gram stain a. Negative stain c. Ziehl-Neelsen stain d. Malachite green staining 38- Inverted fir tree appearance is characteristic to a. Bacilius anthracis b. Mycoplasma bovis c. Pasteurella multocida d. EHEC 39- Which of the following isn't use for serotyping of salmonellae c. K antigen d. Vi antigen b. H antigen a. O antigen 40- The test used for detection of typhoid fever c. Rosewaller test d. Westernblotting b. ELISA a. Widal test 41- Toxic shock syndrome (TSST) is caused by d. None of these c. Strep. viridana b. Staph. aureus a. Staph. albus :42- Streptococcus ubris comprises which Lancefield c-- Group C d-- Group E b-- Group B a- Group A 43- Rough colonies are the normal and virulent colonies in c. E.coli d. None of these a. Bacillus anthracis b. Salmonella 44- Asculin hydrolysis test used for detection of a- Streptococcus agalactia b- Streptococcus dysgalactia c-Streptococcus ubris d. None of these 45- The brucella which needed for primary isolation into 5- 10% Of CO2 is b- Brucella ovis c- Brucella canis d- Brucella melitensis a- Brucella abortus 46- After 48 hours incubation poured blood plate Streptococcus produce colonies surround by Incomplate zone of heamolysis with green discoloration which is c- Gamma heamolytic a- Beta heamolytic b- alpha heamolytic 47- Hotis and Miller test is specific for detection of a- Streptococcus dysgalactiae b- Streptococcus agalactiae c- Streptococcus uberis d- Streptococcus equi 48- Lancefiled classification of Streptococci is base on d- M antigen b- C substance antigen c- M, T and R antigens a- M and T antigens 49 Milk ring test is specific for detection of d-Shigella c- Salmonellae b- E.coli 50- Shipping fever in cattle and sheep is caused by b- Streptococcus equi c- Brucella canis d-. Bacillus anthracis a-Pasteurella multocida



Departement of pathology Faculty of veterinary medicine Menoufia university





All quistions should be answered:	(A)
Part I: Choose the correct answer	<u>(20 marks)</u>
Q1. Pathology is the study of the <u>structural</u> , biochemical, and <u>functional</u> changes in cells,	tissues, and organs
that undarlin disease:	
A True (B) False (C) True if the word structural removed (D) True if the word	functional removed
Q2are reversible functional and structural responses to changes in physiological and structural responses to changes and structura	ogic states and some
pathologic stimuli allowing the cell to survive and continue to function.	
(A) Apoptosis (B) Necrosis (C) Adaptations	Anthracosis
one of the four final common biochemical mechanisms leading to co	ell injury.
(A) karvolysis (B) Damage to DNA (C) Lipidosis	Amyloldosis
O4. The influx of water along with sodium ions to the cell when the Na+/K+ pumps fail c	called
(A) Hydropic degeneration (B) Hypertrophy (C) Ischemia	w Hearing
05is a local decrease in blood supply to tissue with decreased delivery of c	oxygen, glucose, and
other nutrients to the cell, as well as decreased removal of metabolic wastes	
A Hyperemia (B) Edema (C) Congestion (D) Ischen	
O6 Glycolysis leads to an accumulation of lactate with decreased intracellular pH, and p	roduces heat
(A) True (B) False (C) True if lactate replaced by glucose (D) True if decreased re	eplaced by increased
O7 liver affected with Hydronic degeneration increased in weight, pale and swollen with	n rounded eages.
A True (B) False (C) True if pale replaced by bright red (D) True if increased re	eplaced by decreased
Q8. Disruption of the intracellularbalance is integral to the transition from potent	ially reversible acute
cell swelling to irreversible injury and cell death.	
(A) Vitamin C (B) Sodium ion (C) MS222 (D) Calcium ion	i I i lalata
Q9. EM examination of acute swollen epithelia showed <u>loss</u> of cilia & microvilli & develo	ps cytoplasmic blebs
(A) True (B) False (C) True if <u>loss</u> replaced by increasing (D) True if <u>"blebs"</u> re	placed by inclusions
$\mathrm{Q}10.$ Normal endothelium is prothrombotic and antifibrinolytic.	
A True B False	TOM
Q11. Necrotic cell death elicits an inflammatory reaction because of the release of cell co	ontents into the ECIVI.
A True B False True if elicits replaced by doesn't elicit True if necrotic	replaced by apoptotic
Q12. If cell fails to restore mitochondrial function, acute cell swelling becomes irreversib	ne causing cen deam.
(A) True (B) False (C) True if <u>irreversible</u> replaced by reversible	1.24
Q13 is a gross lesion for the myocardial and skeletal muscle necrosis in	white muscle disease.
A Anthracosis B Calcification © Ictrus D edema	to call avvalling
Q14. Soon after cell death, necrotic tissue may have the same macroscopic features of ac	cute cen swening.
A True B False	d mustain and loss of
Q15. Dead cells tend to have intense cytoplasmic eosinophilia due to the denatured	i protein and ioss of
ribosomes	e e e e
A True B False	

	Q16. Necrosis has been classified traditionally as coagulative,, liquefactive, and gangrenous A Hydropic B Oncogenic C Nuclear D Caseous
	Q17. Macroscopically,may appear as crumbled, granular, or laminated yellow-white exudate
	center of a granuloma or a chronic abscess.
	A Metaplasia B Fibrosis © Caseation D Regeneration
	Q18 Necrosis is typically the final stage of necrosis in parenchyma of the brain or spinal cord
	Q19. The term used for the macroscopic appearance of necrosis in the brain and spinal cord is
	🕒 Hemorrhage 🐵 Dry gangrene 💿 Malacia 🕒 Gas gangrene
	Q20. Dry gangrene is the result of decreased vascular perfusion and/or loss of blood supply.
	(a) True (B) False
	Q21. Fat necrosis can be classified etiologically as enzymatic, traumatic, and
	🕙 Ischemic 🕒 Idiopathic 💿 Hyperemic 💿 Hemorrhagic
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	Q25is the accumulation of lipids within parenchymal cells.
	Apoptosis B Necrosis © Lipidosis D Amyloidosis
	Q26. Histologically, lipid vacuoles sharply defined, unstained & displace the nucleus to the periphery of control of True False
	Q27. Amyloid has characteristic apple-green birefringence in polarized light, especially with the Sta
	⊕ H&E
	Q28. AL amyloidosis can be systemic or localized
	⊕ True ⊕ False
	Q29. "Hyaline" used for intra or extracellular proteinaceous substances that take up eosin homogeneousl
	A True B False
	Q30. Cholesterol crystals often form in tissue at sites of hemorrhage or necrosis.
	(A) True (B) False
	Q31. Pathologic calcification refers to the deposition of calcium salts in soft tissues. A True B False
	Q32. Soft tissue calcification as the result of elevated serum calcium concentration is termed
	metastatic calcification B Necrosis dystrophic calcification Anthracosis
	Q33. The calcification of dead tissue as part of the process of necrosis is called
	A metastatic calcification
×	Q34. The major dust inhaled by coal mine workers is carbon, so this form of pneumoconiosis is called
	A metastatic calcification B Necrosis © dystrophic calcification D Anthracosi
	Q35. Deficiency of ATP causes failure of Na+/K+-ATPase pumps with influx of into the cyto
	Na+, Ca2+, and water
	Q36. Septic abscesses originate from incompletely degraded foreign bodies, whereas sterile abscesses a
	from bacterial infection
	A True B False

	Q37. The presence of hemosiderin-laden macrophages is an indicator of chronic passive con A True B False	gestion.
	Q38. The end product of protein and purine metabolism in birds is uric acid, while in mamm A True B False	als is urea.
	Q39. Acute inflammation is the progressive reaction of vascularized living tissue to injury of True B False	ver time.
	Q40. Acute inflammation has a short duration, ranging from a few hours to a few days. A True B False	
	Q41. some inciting substances can invoke chronic inflammation directly and almost immed A True B False	
	Q42. Increased flow of blood to injured tissue (vasodilation), is responsible for	····
	Q43. Fluid with minimal protein and is essentially an electrolyte solution like that of plasma. Q44. An opaque and often viscous fluid that contains more protein and more leukocytes.	A Fibrinogen B Neutrophils
		© Transudate
	Q45. Important plasma protein in exudates that polymerizes extravascular to form fibrin.	_
	Q46. The first leukocytes to enter the exudate	Take 1
	Q47. Rich in histamine and widely distributed in connective tissue adjacent to blood vessels	© Exudate
	Q48 essentially creates a pathway for leukocytes to follow to reach the site (A) Pain (B) Redness and heat (C) chemotactic gradient (D) Wound heal	
1	A Pain B Redness and heat C chemotactic gradient D Wound heal Q49. In acute inflammation, the net outflow of fluid into extracellular tissue overwhelms resorption by postcapillary venules and lymphatic vessels. True B False	ing the capacity for
	A Pain B Redness and heat © chemotactic gradient D Wound heal Q49. In acute inflammation, the net outflow of fluid into extracellular tissue overwhelms resorption by postcapillary venules and lymphatic vessels.	ing the capacity for Margination
	A Pain B Redness and heat C chemotactic gradient D Wound heal Q49. In acute inflammation, the net outflow of fluid into extracellular tissue overwhelms resorption by postcapillary venules and lymphatic vessels. True B False	ing the capacity for
	 A Pain B Redness and heat C chemotactic gradient D Wound heal Q49. In acute inflammation, the net outflow of fluid into extracellular tissue overwhelms resorption by postcapillary venules and lymphatic vessels. A True B False Q50. Express high-affinity IgE receptors, similar to mast cells 	ing the capacity for Margination Rolling Control Eosinophils
	A Pain B Redness and heat C chemotactic gradient D Wound heal Q49. In acute inflammation, the net outflow of fluid into extracellular tissue overwhelms resorption by postcapillary venules and lymphatic vessels. True B False Q50. Express high-affinity IgE receptors, similar to mast cells Q51. The avian, rabbit, and guinea pig neutrophil equivalent is termed	the capacity for A Margination B Rolling
	A Pain B Redness and heat C chemotactic gradient D Wound heal Q49. In acute inflammation, the net outflow of fluid into extracellular tissue overwhelms resorption by postcapillary venules and lymphatic vessels. A True B False Q50. Express high-affinity IgE receptors, similar to mast cells Q51. The avian, rabbit, and guinea pig neutrophil equivalent is termed Q52. Leukocytes exit the central region of the vascular lumen and move to the periphery	A Margination B Rolling C Eosinophils D Basophils
	 A Pain	A Margination B Rolling C Eosinophils D Basophils E Heterophils
	A Pain B Redness and heat © chemotactic gradient © Wound heal Q49. In acute inflammation, the net outflow of fluid into extracellular tissue overwhelms resorption by postcapillary venules and lymphatic vessels. A True B False Q50. Express high-affinity IgE receptors, similar to mast cells Q51. The avian, rabbit, and guinea pig neutrophil equivalent is termed Q52. Leukocytes exit the central region of the vascular lumen and move to the periphery Q53. Recruited from the bloodstream to vascularized tissue in allergic and parasitic diseases. Q54. Initial contact between leukocytes & endothelium by transient, weak binding interactions. Q55. Vascular Endothelial Cells regulating: A Hemostasis/coagulation Angiogenesis C Leukocyte homing None of the Q56. Once activated and released or secreted, most inflammatory mediators: B Decay rapidly and destroyed enzymatically B Scavenged by protections	A Margination B Rolling C Eosinophils D Basophils F Heterophils
	A Pain B Redness and heat © chemotactic gradient © Wound heal Q49. In acute inflammation, the net outflow of fluid into extracellular tissue overwhelms resorption by postcapillary venules and lymphatic vessels. A True B False Q50. Express high-affinity IgE receptors, similar to mast cells Q51. The avian, rabbit, and guinea pig neutrophil equivalent is termed Q52. Leukocytes exit the central region of the vascular lumen and move to the periphery Q53. Recruited from the bloodstream to vascularized tissue in allergic and parasitic diseases. Q54. Initial contact between leukocytes & endothelium by transient, weak binding interactions. Q55. Vascular Endothelial Cells regulating: A Hemostasis/coagulation Angiogenesis C Leukocyte homing None of the Q56. Once activated and released or secreted, most inflammatory mediators: B Decay rapidly and destroyed enzymatically B Scavenged by protections	A Margination Rolling E Eosinophils D Basophils Heterophils
	 Pain	A Margination B Rolling C Eosinophils D Basophils E Heterophils All of them etive mechanisms
	 ♠ Pain	A Margination Rolling Estive Estive mechanisms hem
	 ♠ Pain	A Margination B Rolling C Eosinophils D Basophils E Heterophils All of them et inflammation
	 ♠ Pain	A Margination Rolling Estimated Estimation Rolling Rollin
	 ♠ Pain	A Margination B Rolling C Eosinophils D Basophils Heterophils M All of them et inflammation us inflammation

Q63 chronic inflammation in which cells of the monocyte-macro predominant and take the form of macrophages, epithelioid macrophages (activated macrophages). (A) Hemorrhagic (B) Fibripous (C) Crandom (C)	phage system are hages), and MGCs
A Hemorrhagic B Fibrinous © Granulomatous D suppurative	
Q64. Occurs immediately after injury unless there is a clotting disorder	
Q65. Phase begins only after inflammation and proliferation phases successfully	A First intention
completed.	B Proud flesh
Q66. Healing occurs in nonseptic wounds	© Remodeling
Q67. Excessive granulation can lead to a type of hypertrophic scar called	Hemostasis
Q68. Movement of intravascular fluid through investment of intravascular	© Edema │
Q68. Movement of intravascular fluid through inter-endothelial gaps into the interstitium	
Q69. Anaplastic cells are poorly differentiated cells with anisocytosis and pleomorphism. (A) True (B) False	
Q70. Which one of the following is not a cause of general edema. (A) Sever parasitic infestation (B) Nephrotic syndrome (O) Hepatic failure (D) nor	n of them
Q71. Pinpoint hemorrhage occurs mainly because of diapedesis with min.	
bo but of plateters, Hulli, alle other blood elements forms and	
Q73. A piece of free-floating foreign material within the blood.	
Q74. An arterial infarct will often	shaped
Q75. occurs when infarcted tissue is invaded by saprophytic bacteria	© A petechia
	© gangrene
	© A thrombus
Q76. Which one of the following is not a cause of infarction (A) Thrombus (B) external preserve (C) to the control of the following is not a cause of infarction	
CALCINAL DIESSIFE (c) both of them (n)	
Q77. outcomes of coagulative necrosis may be:	*
A liquefaction mineralization sequestration All of them no	n of them
Q76. Inforectives generated in an area of inflammation that modules the inflammation	A) pitted
1 The mount way	B swelled
277. Burge, multinucleated cells that arise from the fusion of macrophages	Iymphocytes
You. If there is significant there is the conference of the	D giant cells
	E chemical
	nediators

Part II: Write short note on the followings:

(5 marks)

1- Morphologic Changes of Acute Cell Swelling.

2- Morphologic pictures of chronic venous congestion of lung and liver.

Good luck

357770





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 الاجابة الالكتروني

	A-Choose t	he correct answer	
1- A dietary protein is not degraded in the rumen is referred to			
A. RUP	B. RDP	C. Microbial protein	D. Protected protein
2- Sweet clover disease is ass			
A. Vitamin E	B. Vitamin K		D. Thiamin
3- Manganese plays an impor			
A. Bone	B. Osteoclast	C. Chondroitin sulphate	D. Osteoblast
4- Acid detergent fiber (ADF)) are		·
A. Cellulose &	B. Cellulose &	C. Hemicellulose & lignin	D. All of them
hemicelluloses	lignin	C. Hemicentiose & lighth	D. An of them
5- Acetic and butyric acids in	VFA in ruminants are u	sed in	G G
A. sources of energy	B. synthesis of milk fat	C. converted to glucose	D. A&B
6- Trace element is expressed	l in		
A. Percent %	B. g\kg ·	C. part per million	D. part per thousand
7- Crazy chick disease is due			
A. Vitamin E	A. Selenium	B. Thiamin	C. Vitamin E & Selenium
8- The is rich	in polyunsaturated f	atty acids	
A. soybean oil	B. coconut oil	C. peanut oil	D. Palm oil
9 essent	ial for collagen formati	on.	
A. Vitamin E	D. Vitamin A	E. Vitamin C	F. Manganese
10- High level of calcium carbonate, iron, zinc and molybdenum reduce the absorption of			ı of
A. Copper	B. Iron	C. Manganese	D. Cobalt
11- Methionine can be replace	d partially by		
A. Glycine	B. tyrosine	C. cystine	D. Lysine
12-Chicks reared on a ribo	oflavin-deficient diet o	develop paralysis	1
A. nerve degeneration	B. curled toe	C. beri-beri	D. jerky
13- The lipids of grasses and	d clovers are		\\
A. Phospholipids	B. Glycolipids	C. Phosphoglycerides	D. Triacylglycerol
14are 18- to 20-ca	rbon unsaturated fatty ac	cids having at least two double b	
A. EAAs	B. VFAs	C. Vitamin F	D. Lecithins
15is a metabolic d	isorder mainly of dairy c	ows close to calving due to Ca	deficiency
A. Milk fever	B. ketosis	C. pregnancy toxemia	D. SARA
16 are produced when	unsaturated plant oils are	hydrogenated in ruminant	*
A. VFA	B. steric acids	C. short chain fatty acids	D. trans-fatty acids
17- Phosphorus deficiency in	cattle results in		



Menoufia University Faculty of Veterinary Medicine Nutrition and Clinical Nutrition. Second Year Exam, 2020/2021 Date: 14.3.2021 model A discount Year Exam.



model A time allowed: 2 Hours Swollen hock syndrome B. Pica C. Osteomalacia 18- Ruminant don't have enzyme D. Rickets A. cellulase B. sucrase C. lactase 19-is the first limiting A.A in soybean D. protease A. L-lysne B. Dl- methionine C. lysine 20- Micelles are combination of bile salts, & fatty acids D. Methionine A. Diglyceride B. Monoglyceride C. Triglyceride 21- is phosphatidylcholines, Important in fat metabolism D. A, B &C A. Glycolipids B. Cephalins C. Lecithins 22-is essential amino acids in poultry diets. D. phospholipids A. Lysine B. Cystine C. Alanine 23- can destroy vitamins during storage D. Histidine A. ultraviolet light B. sodium C. PUFA chloride D. choline chloride 24- Vitamin Deficiency led to Embryo mortality reaches a peak between 18 to 20 days of incubation B. Thiamin C. Riboflavin 25- supplementation in poultry diets save about 100 LE/ ton feed. D. Piroxidine A. bacillus lechinformis B. Enzymes C. probiotics D. all of them B-Identify the true (A) or false (B) sentences 26- Saturated fatty acids affect rumen fermentation less than do unsaturated fatty acids. 27- Oxidation of fat produces approximately 60 % of its weight water. 28- High fibrous diet like dry roughages decrease water requirement than less fibrous diet. 29- Animal can't live for at most three days if not provided with drinking water. 30- Animal body was analyzed by Slaughter and chemical analysis techniques. 31- Sodium is important part of an enzyme glutathione peroxidase. 32- Water requirement of lactating dairy cow is 40 L per day. 33- Most of the feed and forages are poor source of sodium. 34- All enzymes and hormones are protein in nature. 35- Microbes in the rumen can't consume ingested protein to build their own bodies 36-Deficiency in Zinc only causes Pica in cattle 37- The NDF consist of cellulose, hemicellulose, lignin, silica and cutins 38- Deficiency of Nicotinamide causes "black tongue" in poultry 39-Biotin is important in hair health. 40- Crude protein content important factor governing the bulk of ration 41- Antimicrobial agents can suppress intestinal synthesis of vitamin A. 42-VFA is short chain from fatty acid produced by microbes in rumen only

Menoufia University Faculty of Veterinary Medicine Nutrition and Clinical Nutrition. Second Year Exam, 2019/2020 020 time allowed: 2



- 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 colonication I
47- Saccharomyces cerevisiae 48- Milk fever	Salmonella, Campylobacter and Clostridium. B- A starch digesting enzyme that helps to digest more of the starch found in corn
	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
50- 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.
52- Calcium formate	G- create acidic conditions and increase lactic acid formation, which are detrimental to the cellulative beautiful formation.
53-Zinc bacitracin	n- Help Monogastrics digest about 60-70% of the
54- Phytase	phosphorus(P) found in feedstuffs of vegetable origin 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
66- Xylanase	K- Has antibacterial, antioxidant, antiviral, antiparasitic and insecticidal functions.
57- HSCAS	msecucidal fulletions
8- B-glucan	L- Controlled by DCAD from -50 to -100 mEq/kg DM M- Adhesion to the digestive tract wall to prevent colonization by pathogenic microorganisms
9- SARA	N- Effective in releasing protein anti-nutrients found in it.
0- Proteases	O- Subtherapeutic levels added to the food to enhance the rate of
	P- Non-digestible ingredients that beneficially affect the host by selectively stimulating the growth of bacteria