شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية

حل المراجعة النهائية وفق الهيكل الوزاري - باللغة الانجليزية

موقع المناهج ← المناهج الإماراتية ← الصف الثاني عشر العام ← علوم ← الفصل الثاني ← الملف

التواصل الاجتماعي بحسب الصف الثاني عشر العام								
روابط مواد الصف الثاني عشر العام على تلغرام								
الرياضيات	اللغة الانحليزية	اللغة العربية	التربية الاسلامية					

المزيد من الملفات بحسب الصف الثاني عشر العام والمادة علوم في الفصل الثاني						
حل أسئلة الامتحان النهائي	1					
حل المراجعة النهائية وفق الهيكل الوزاري - باللغة الانجليزية	2					
المراجعة النهائية وفق الهيكل الوزاري - الوحدة الرابعة والخامسة	3					
امتحان نهائي مع الحل	4					
مراجعة شاملة الفصل الثاني مع الحل	5					



Biology Final Revision

Grad 12 General

CH4-Integumentary, skeletal, and muscular system

CH5-Immune system

Term 2 2022-2023

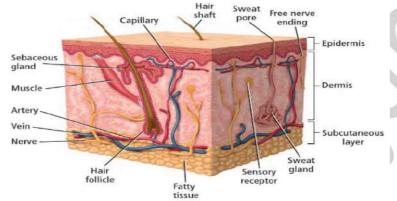
Teacher: Mohammad Rajab



CH4-Integumentary, skeletal, and muscular system

Q 7 Page 96

Types of tissues in skin	function
Epithelial tissue	Covers body surfaces
Connective tissue	Provides support and protection
Muscle tissue	Involved in body movement
Nerve tissue	Forms the body's communication network



Layers of skin	Place	Thickness	Contents
Epidermis	Outer superficial layer	10-30cells thick	Keratin- melanin
Dermis	beneath the epidermis Second layer of skin	15-40times than epidermis	Hair follicle- Sebaceous glands Sweat gland-Sensory receptor
			Muscle fibers- nerve cells

1- Type of tissues provides support and protection?

a- Epithelial tissue

b- Connective tissue

c- Muscle tissue

d- Nerve tissue

2- Type of tissues forms the body's communication network?

a- Epithelial tissue

b- Connective tissue

c- Muscle tissue

d-Nerve tissue

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3- What protective protein is contained in the outer layers of epidermal cells?

a-Collagen b-keratin

c- fibrinogen d- melanin

Q 1-2 Page 97

4- How do cells in the skin protect the skin from ultraviolet radiation?

a- It is secreted oils.

b- It is store cutin.

c- It is absorbed calcium.

d- It is produced melanin.



5- Which element in the skin protects against ultraviolet rays?

a- Keratin

b- Cutin

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d- Vitamin D

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6- Where are sebaceous glands located?

a-Epidermis

b- Hair follicles

c- Sweat pores

d-Subcutaneous tissue

7- What might result from a blocked sebaceous gland?

a- Sweat

b- Acne

c-baldness

d- ingrown hair

8- What protein do hair and nails contain?

a- Chitin

b- cutin

c-keratin

d- myosin

9- When are blackhead formed?

a- When sebaceous glands become clogged

b- When grooves in the epidermis gather dirt

c- When hair follicles grow inward rather than outward

d- When there is an excess of keratin produced

10- Which are not found in dermis?

a- Muscles

b- sweat and oil glands

c- fat cells

d- nerve cells

11- What could be inferred from suntans?

a- Sunning for the purpose of tanning produces healthier skin.

b- A tan might indicate sun damage to the skin.

c- Tanning strengthens the elastic in the skin making the skin feel tight.

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d- Tanning promotes skin that has more youthful appearance.

Q 3 Page 101 Figure 6

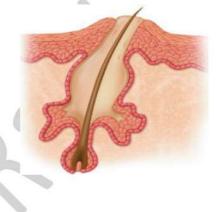
12- Which is not part of the axial skeleton?

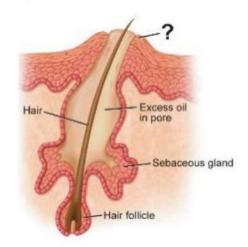
a-Skull

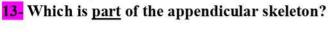
b- ribs

c- hip bone

d-vertebral column







A

B

C

D



Q 8-9 Page 104 table 2

14- Which pair of terms is mismatched?

a- Cranium, sutures

c- Shoulder, ball-and-socket joint

b- Wrist, pivot joint

d- Knee, hinge joint

15- Which pair of terms is mismatched?

a- The skull, sutures

b- sholser, ball-and-socket

c- Knee, hinge joint

d- Ankles, pivot joint

- 16- Where is the type of joint shown in the figure found?
 - a- elbow and knees
 - b- fingers and toes
 - c- hips and shoulders
 - d- wrists and ankles



17- Which letter or the following represent the type of joint found in human knee?

C

18- Which letter or the following represent a gliding joint?









19- An example of a gliding joint is the

Mohamad Rajab a- **Skull**

b- Elbow

c- knee

d- wrist

20- Where would you find type of joint shown above?

a- Hip

b-vertebrae

c- elbow

d-skull





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21- An example of a fixed joint(sutures) is the

a-Skull

b- Arm

c- knee

d-wrist

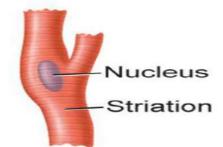
Mohamad Rajab

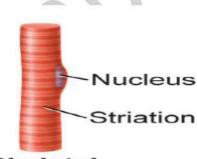
- 22- Which type of joint allows a piano player's fingers to play music?
 - a-hinge

- b- pivot
- c- suture
- d-gliding









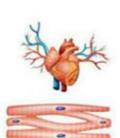
Smooth muscle fiber

Cardiac muscle fiber

Skeletal muscle fiber

- 22- What muscles shown above are classified as voluntary muscles?
 - A
- R
- C
- all muscles
- 23- What muscles shown above are classified as involuntary muscles?
 - a- A and B
- b-B and C

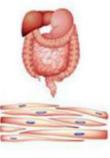
- c- A and C
- d- all muscles
- 24- Which of the following letter refer to the voluntary striated muscle?
 - A
- B
- \mathbf{C}
- all muscles



(A)



(B)



(C)

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- 25- Which is **not** a characteristic of smooth muscle?
 - a- It is an involuntary muscle.
- b-It has one nucleus per cell.
- c- It has striations and stripes.
- d- It lines organs of the digestive tract.

Q 11-12 Page 109 Figure 12

26- Which represents the levels of organization of skeletal muscle from larger to smaller units?

- fibers → myofibrils → sarcomeres → filaments a-
- filaments → myofibrils → sarcomeres → fibers b-
- myofibrils → filaments → fibers → sarcomeres c-
- sarcomeres \rightarrow myofibrils \rightarrow filaments \rightarrow fibers d-

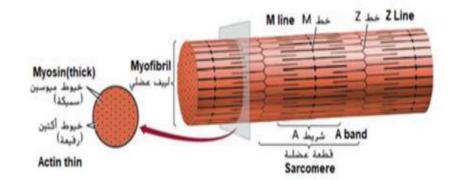
27- Which of the following indicates where the actin filaments are attached within the myofibril?

a- A Band

b-M Line

c- Sarcomere

d-Z line



28- What is the area running the Z line to the Z line?

a- A Band

b- M Line

c- Sarcomere

d-Z line

29- Which of the following indicates were consists of only myosin filaments?

a- A Band

b-M Line

c- Sarcomere

d-Z line

30- The location in a sarcomere where the overlap of actin and myosin filaments results in a dark band is called......

a-A Band

b- M Line

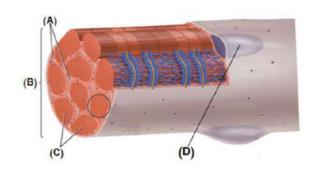
Mohamad Rajab Sarcomere

d-Z line

32- Which requires (ATP)?

- a- Muscle contraction
- b- Muscle relaxation
- c- Neither muscle contraction nor relaxation
- d- Both muscle contraction and relaxation
- 33- Which letter of the following refers to the mitochondria?
 - a-B
- b- C
- c- D

Morarod Rois



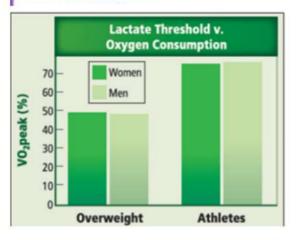
Woodood of Solo

Q 17Page 117 Excercise 42

Athletes burn fat at a maximum rate when they exercise at an intensity near the lactate threshold, the point at which lactic acid starts to build up in the muscles. In addition, athletes who consume the greatest amounts of oxygen during intense exercise (VO₂peak) burn the most fat.

Researchers compared the lactate threshold and oxygen consumption of overweight subjects who did not exercise to those of highly trained athletes.

At what percent of (VO₂peak) was the lactate threshold reached in overweight subjects?

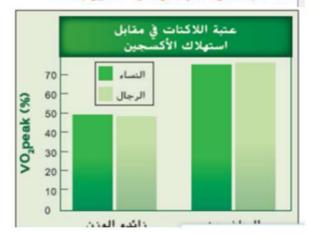


a- 60% b- 70%

يحرق الرياضيون الدهون بأقصى معدل عند ممارسة التمرينات المكثفة، ليصلوا إلى عتبة حمض اللاكتيك وهي الدرجة التي يزيد عندها حمض اللاكتيك ويبدأ في التراكم في العضلات.

بالإضافة إلى ذلك، إنّ الرياضيين الذين يستهلكون أكبر قدر من الأكسجين (VO₂ peak) أثناء ممارسة التمرينات المكثفة يحرقون أكبر قدر من الدهون.

لقد قارن الباحثون بين عتبة حمض اللاكتيك واستهلاك الأكسجين لدى الأفراد الذين يعانون من السمنة ولا يتدربون والرياضيين كثيري التدريب. ما نسبة الحد الأقصى من استهلاك الأكسجين (VO2peak) التي حدثت عندها عتبة حمض اللاكتيك لدى الأفراد المصابين بالسمنة؟



c-30%

d-50%

42. How might an overweight person who does not exercise increase his or her VO_{2peak} and, therefore, his or her lactate threshold?

42. كيف بمكن لشخص مصاب بالسمنة لا يهارس التمارين أن يزيد من قبمة VO_{2peak} ومن ثمَّ زيادة عتبة حمض اللاكتيك؟

42. take in oxygen

Bonus Question

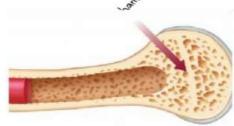
L What is a characteristic of the portion of the bone indicated by the arrow?

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a- It contains no living cells.

b-It contains bone marrow.

- c- It is the only type of bone tissue in long bones.
- d- It is made of overlapping osteon systems
- 3- Which of the following tissue are considered as the main structure of ligaments?
 - a- Epithelial tissue
- b- Muscular tissue
- c- Connective tissue
- d- nervous tissue



2- Where in this bone is the spong	y bone tissue?	
A B		A
C D		C
4- bone-forming cells are called	•••	D
a- Osteoblasts	b- Osteoclast	c- Osteocytes
5- What is the condition that a per fragile bones that break easily?	rson with insufficient calcium can	4 X K
a- Osteoblasts	b- Osteoclast	80 S
Mohamad Rajab c- Osteocytes	d- Osteoporosis	the found of the state of the s
6- Which type of fracture involves	breaking a bone but <u>does not</u> co	me through the skin?
a-Simple	b- Complicated	c- Stress
7- Which type of fracture involves	breaking a bone and the bone pr	otrude out the skin?
a- Simple	b- Complicated(compound)	c- Stress
8- What are the cells that remove	old bone tissue called?	
a- Osteoblasts	b- Osteocytes	
c- Osteoclasts	d- Osteozymes	
Q 18 Page 104 table 1	CH5-Immun	e system
1- Which of the following human	body systems and organs does <u>the</u>	Rabies virus affect?
a- Respiratory system	b- The skin	
c- Blood and liver	d- Nervous system	8
2- Which of the following human	body systems and organs does <u>the</u>	Chickenpox virus affect?
a- Respiratory system	b- The skin	4.
c- Blood and liver	d- Nervous system	l
3- Which of the following human	body systems and organs does <u>the</u>	Tuberculosis affect?
a- Respiratory system	b- The skin	
c- Blood and liver	d- Nervous system	Į.

Table 1	Human Inf	Human Infectious Diseases						
Disease	Cause	Affected Organ System	How Disease is Spread					
Tetanus	Bacterium	Nervous system	Soil in deep puncture wound					
Strep throat	Bacterium	Respiratory system	Droplets/direct contact					
Tuberculosis	Bacterium	Respiratory system	Droplets					
Lyme disease	Bacterium	Skeletal and nervous system	Vector (tick)					
Chicken pox	Virus	Skin	Droplets/direct contact					
Rabies	Virus	Nervous system	Animal bite					
Common cold	Virus	Respiratory system	Droplets/direct contact					
Influenza	Virus	Respiratory system	Droplets/direct contact					
Hepatitis B	Virus	Liver	Direct contact with exchange of body fluids					
West Nile	Virus	Nervous system	Vector (mosquito)					
Giardia	Protozoan	Digestive tract	Contaminated water					
Malaria	Protozoan	Blood and liver	Vector (mosquito)					
Athlete's foot	Fungus	Skin	Direct contact or contaminated objects					

4-	Which of the	following	human bod	y systems and	organs does	the Hepatitis	B affect?
----	--------------	-----------	-----------	---------------	-------------	---------------	-----------

a- Digestive system

b- skeletal system

c-liver

d- Nervous system

5- What is the micro-organism that cause **Tetanus**?

a-Bacteria Mohamad Rajab b- Protozoa

c- Fungus

d- Virus

6-What is the micro-organism that cause Hepatitis B?

a- Bacteria

b- Protozoa

c- Fungus

d-Virus

7- What is the micro-organism that cause Athlete's foot?

a-Bacteria

b- Protozoa

c- Fungus

d-Virus

8-What is the micro-organism that cause Giardia?

Moha Bacteria

b-Protozoa

c- Fungus

d- Virus

9-What is the micro-organism that cause Chickenpox?

a- Virus

b-Parasites

c-Bacteria

d- Protozoa

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مؤسسة الامارات للتعليم المدرسي مكتب العين التعليمي الظاهرة للتعليم الأساسي والثانوي

10- The nonliving pathogen is the

a- Bacteria b- Virus

c- Parasites d- Protozoa

Q 6 Page 125 Figure 3

10- Which type of disease transmission is shown above

a- Direct contact b- object transmission

c- Air transmission d- vector transmission

11- Which type of disease transmission is shown above

a- Direct contact b- object transmission

c- Air transmission d- vector transmission



5- Which type of disease transmission is shown a picture?

a-vector transmission b-object transmission

c- air transmission d- direct contact

1- An individual that is symptom-free but capable of passing the pathogen is called a

a- Holder b- Transmitter

c- Carrier d- passenger

2- <u>Rabies</u> is found in domestic dogs and many wild animals, such as bats, foxes, skunks, and raccoons.

<u>Rabies</u> can be transmitted from......

a- animal reservoir b-

Mohamad Rajab c- soil d- insect

b- contaminated water
d- insects

3- Which of the following common ways of transmission do the humans acquire the <u>coronavirus</u> through?

a- Contaminated water b- Mosquito bites

c- Sick animals d- Contacting infected humans

9- which is the most common way humans acquire an infectious disease?

a- Contaminated water b- mosquito bites

c- Sick animals d- infected humans





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Q 13 Page 126		
<mark>10-</mark> <u>Lyme</u> disease, <u>malaria,</u> and <u>'</u>	West Nile virus are diseases that	are passed to humans by
a- direct contact		
b- indirectly throu	gh the air	
c- organisms called Mohamad Rajab	l vectors that carry pathogens	the taken of the same
d- indirectly throu	gh touching contaminated object	s
11- <u>West Nile Virus</u> is an exampl	le of a disease which is spread by	(/ ₀ :—
a- direct contact	b- indire	ct contact by objects
c- indirect contact th	arough the air d- Vecto	rs

a- Arthropods

b- mammals

c- chemical toxins

d- tiny mucus droplets

Mororod Rois

- Mohamad Rajab

 What is the main cause of aches and pains associated with the flu?
 - a. The pathogen affects the nervous system.

12- What are the most common vectors that transmit diseases?

- b. The pathogen invades and lives inside cells.
- c. The pathogen produces chemical toxins.
- d. The pathogen triggers an immune response.

14-When pathogenic bacteria invade the body, beside to the cell damage that can occur, <u>bacteria</u> cause harm through......

a- degrading cell membrane

b- secreting toxins

c- dehydrating the cell

d- none of the above

Q 4 Page 128 Figure 7

11-Which substance is secterd by the organisms shown above?

a- Anthrax

b- gentamicin

c- influenza

d- penicillin

15-Fungus Penicillium secretes a chemical to kill competing bacteria that grow on the fungal food source. This chemical is called

a- Penicillin

b- Erythromycin

c- Neomycin Mohamad Rajab d- Gentamicin





8-Which of the following is not considered an antibiotic?

a- Histamine	b- Neomycin
a- Histamine	D- Neomycin

- c- Penicillin d- Gentamicin
- 9- Bacteria in a population might have a trait that enables them to survive when a particular antibiotic is present. These bacteria can reproduce quickly and pass on the variation. This has caused the bacteria to develop........

a- antibiotic tolerance b- antibiotic side effect

c- antibiotic resistance b- histamine side affect

10-What is the source of most antibiotics?

a- Bacteria b- fungi

Mohamad Rajab c- Protists

d- Plants

12- How are most viral diseases fought?

a- with antibiotics b- with antiviral drugs

c- with chemical agents d- by the body's immune system

Q 5 Page 132

1- Lymphatic system includes organs and cells that helps to

Mohamad Rajab

a- absorb fats b- filter lymph

c- destroy foreign microorganisms d- All the above

2-The lymphatic organ that forms a protective ring of lymphatic tissue between the nasal and oral cavities and helps protect against bacteria and other harmful materials in the nose and mouth are:

a- The spleen b- the tonsils

c- The bone marrow d- the lymphatic nodules

3-The lymphatic organ that stores blood and destroys damaged red blood cells is......

a- The spleen b- the tonsils

c- The bone marrow d- the lymphatic nodules

4-T cells are produced in the bone marrow, but they mature in the......

a- The spleen b- the tonsils

c- The bone marrow d- the thymus gland

5- Which of the following is NOT a component of the lymphatic system?

a- The heart b- The spleen

c- The tonsils d- The thymus gland

مع خالص تمنياتي لكم بالتوفيق والنجاح



6- Where are lymphocytes produced?

a- Bon marrow

b-spleen

c- Thymus gland

d-lymph nodes

Q 14 Page 133 Figure 11

8- Proteins that are produced by B lymphocytes and specifically react with a foreign antigen is called.....

a- Antigens

b- Antibodies

c-Interleukin 1

d-Interleukin 2

9- T cells are activated by the presentation of an antigen by.......

a- Plasma cells

b- B cells

c- Macrophages

d- Neutrophils

10- The letter A indicates to

a- Antigen

b- Macrophage

c- helper T cell

d-B cell

11- What kind of immune response is demonstrated in the figure below?

a- Genetic

b- nonspecific

c- specific

d- hormonal

12- In the figure below, the macrophage presents the antigen to the helper T cell by binding to a receptor on the helper T cell. What is the importance of this binding?

a- Helps the helper T cell to divide

b- Helps the macrophage cell to divide

c- Converts antigen into processed antigen

d- Produces direct antibodies

Macrophage

معالج Processed antigen

Helper Cell

13- The cells that connect the antigen presenting cells to B cell response and cytotoxic response

a- Plasma cells

b-B cells

c- Helper T cells

c- Macrophages

14- To which does the activated helper T cell present its antigen to?

a- A pathogen

b-B cell

c- bone marrow

d- the thymus gland

15- Lymphocytes that specifically react with a foreign antigen is called......

a-B cells

b- T cells

c- Helper T cells

d- Cytotoxic T cells

16-An antigen is a substance foreign to the body that causes an immune response; it can bind

a- T cells

b- Antibodies

c- B cells

d- A and B

17- Which white blood cells are the antibody factories?

a- Cytotoxic T cells

b- B cells

c- Helper T cells

d- Macrophages

Q 19 Page 134

18- What do the letters (X) and (Z) represent?

a-(X): Antigens and (Z): Memory cells

b- (X): Processed antigen and (Z): Cytotoxic B cell

c- (X): Antibodies and (Z): Helper B cell

d- (X): Antibodies and (Z): Memory cells

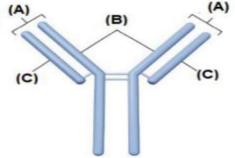
20- What do the letters (A) and (B) represent?

1- (A): Antigen binding site and (B): light chain

2- (A): Heavy chain and (B): Antigen binding site

3- (A): Light chain and (B): Antigen binding site

4- (A): Antigen binding site and (B): Heavy chain



21- Antibodies are made of two light protein chains and two heavy protein chains. If the molecular weight of a light chain is 10000 and the molecular weight of a heavy chain is 20000.

What is the molecular weight of an antibody?

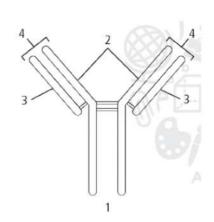
a-90000

b-50000

c-60000

d-30000

- 3. Why are parts 2 and 3 of the diagram above important for the formation of antibodies?
 - A. They allow for an enormous number of possible antibodies to form.
 - **B.** They are created by the T cells in the immune system.
 - C. They help reduce the number of antibodies that form.
 - D. They help stimulate the inflammatory response.





22	2-	he	lper	T	cells	can	bind	to	and	activ	ate	
				_			~					

a- Plasma cells

b- B cells

c- Cytotoxic T cells

d- B cells and Cytotoxic T cells

First exposure to

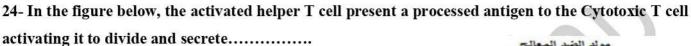
Antigen X

23- The link between the cellular and humeral response are the

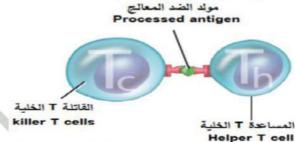
a- Plasma cells Mohamad Rajab b- Helper T cells

c- Cytotoxic T cells

d-B cells



- a- Histamine
- b- Interferon
- c- Acetylcholine
- d-Cytokines



25- Activated cytotoxic T cells destroy pathogens by

a- Chemical attack

b- Antibiotic

c-phagocytosis

d-lysozyme

Q 15 Page 136 Figure 13

43- What enables the secondary response to the antigen to be more rapid and stronger than the primary response to the antigen?

a- activated T cells

b- antihistamines

c- memory B cells

d- secondary antibodies

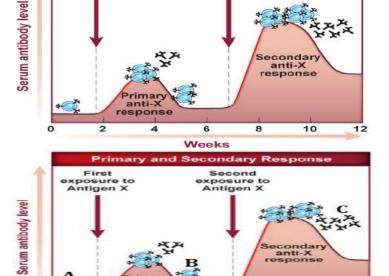
44- The letter B indicates to:

a- Helper T Cells

b- Memory B cells

c- Cytotoxic T cells

d- B cells



6

Primary and Secondary Response

Second

exposure to Antigen X

37- Active immunity occurs after the immune system is exposed to disease antigens and produces......

a- Neutrophils

b- Memory cell

c- Basophils

d-Helper T Cells

10

12

40- Active immunity lasts for longer time than the passive immunity due to the formation of ...

a-B cells

b- T cells

c- Antibodies

d- Memory cells

Q 16 Page 137 Exercise 1

46- The table below shows the differences between specific and nonspecific immunity.

What do the letters (A) and (B0 in the table present?

a- (A): Rapid response and (B): Memory

b- (A): Memory and (B): Rapid response

c- (A): No response and (B): Memory

d-(A): Active immunity and (B): Passive immunity

(Nonspecific)	Specific
Reacts to any pathogen	Reaction is tailored to individual pathogens
(A)	Slow-developing response
No memory	(B)
Involves skin, chemicals, and phagocytes	Involves lymphocytes

Q 20 Page 140

13- Which of the following substances is released in the body to cause most of the symptoms of allergies?

a- Insulin

b- histamine

Mohamad Rajab c- allergens

d- acetylcholine

16- What is an abnormal inflammatory response to an environmental antigen that is *not* pathogenic?

a- an allergy

b- an autoimmunity

c- an anaphylactic reaction

d- a metabolic response

17- What causes anaphylactic shock?

a- a large influx of antibodies

b- a massive release of histamine

c- an extreme autoimmune reaction

d- toxic environmental agents

9- Common allergens that cause severe allergic reactions are

b- Peanuts

c- Latex

a- Bee sting

d- all the above

18- What is the term for the formation of antibodies to the body's own proteins?

a- Cancer

b- leukemia

c- Autoimmunity

d- antipeptide disorder

22- Which of the antigens initiates allergic reaction upon exposure to some kind of pets?

В	100			0.00
C	A = 1			100
D .			1000	
(1	D)	(c)	(B)	(A)
23- Which of the antige	ns initiates allerg	ic reaction upon e	xposure to some flowerin	ıg plant?
A	В	C	D	
		Bonus Q	Question=====	76
9-Which is the first defe	ense against your	body against infe	ctious disease?	O, .
The hel	lper T	your sl	kin	5
phagoc	ytosis	Antibo	odies	86
<mark>10-</mark> It acts as <u>a chemical</u>	<u>barrier</u> in <u>tears</u> :	and saliva, breaks	down bacterial cell wall	S? Larond
a- Mucus		b- Enzyme lysoz		
c- Interferon		d- complement j	proteins	
<mark>11-</mark> When a virus enters Virus-infected cells secr	0.500		helps prevent the virus i	rom spreading.
a- His	tamine (b- Cyte	okine	
c- Int	erferon	d- Noi	ne of the above	
12- A chromosomal disc	order that result t	from abnormal ch	romosome numbers is	••••
a- Sickle ce	ll anemia	b- Hemo	ophilia	
c- Huntingt	ton disease	d- <mark>Daw</mark> i	n syndrome	
13- which of the following	ng is an example	of a condition wit	h environmental and gen	etic origin?
a- coronary	artery disease	b- Da	wn syndrome	
b- Hemoph	ilia	d- Ty	pe 2 diabetes	
14- which of the following	ng is an example	of metabolic disea	ise?	96/
a- Leukemi Mohamad Ra	a liab	b- Arte	riosclerosis	Moreover of the state of the st
c- Type 2 d	-0.00	d- Hem	ophilia	420,
15- which type of nonin	fectious disease is	defined as a prob	olem in biochemical path	way in the body?
a- Inflamma	atory disease	b- me	etabolic disease	
c- Degenera	tion disease	d- car	ncer	

11- A form of arthritis in which antibodies attack the joints is called......

a- Osteoarthritis

b- Rheumatoid arthritis

c- Lymphoma

d- Osteosarcoma

12- The above photo demonstrates which disease?

a-Tetanus

b- rheumatoid arthritis

c- Sickle-cell disease

d- allergy

13- In autoimmunity, which attacks the body's own proteins?

a- Antigens

b- allergens

c- antibodies

d- antihistamines

14- What is the term for the formation of antibodies to the body's own proteins?

a- Cancer

b-leukemia

c- Autoimmunity

d- antipeptide disorder

Mohamad Rajab

15-An inflammation in which antibodies attack the volves of the heart,

a- Osteoarthritis

b- Rheumatoid arthritis

c-Rheumatic fever

d- Osteosarcoma

16- A disorder in which autoantibodies are formed and attack healthy tissue

a- Osteoarthritis

b- Rheumatoid arthritis

c- Rheumatic fever

d- Lupus