# تم تحميل هذا الملف من موقع المناهج الإماراتية





# مراجعة نهائية وفق الهيكل الوزاري منهج بريدج الخطة A-M101

موقع المناهج ← المناهج الإماراتية ← الصف الحادي عشر العام ← علوم ← الفصل الأول ← ملفات المدرس ← الملف

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ملفات اكتب للمعلم اكتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس

المزيد من مادة علوم:

إعداد: محمد أحمد رجب

# التواصل الاجتماعي بحسب الصف الحادي عشر العام











صفحة المناهج الإمار اتية على فيسببوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

. من الملفات بحسب الصف الحادي عشر العام والماده علوم في الفصل الاول	المزيد
تدريبات نهاية الفصل وفق الهيكل الوزاري منهج انسباير الخطة M	1
حل تجميعة أسئلة وفق الهيكل الوزاري منهج بريدج الخطة M	2
الهيكل الوزاري الجديد المسار العام منهج بريدج الخطة 101-C	3
مراجعة عامة وفق الهيكل الوزاري	4
ملخص شرح مختصر في درس النباتات الزهرية	5





# التوأمة بين مدرسة الظاهرة ومدرسة العطاء

# **Biology Final Revision**

Grad 11 General: M.101-A

**CH1-Excretory system** 

**CH2-Endocrine system** 

Term 1

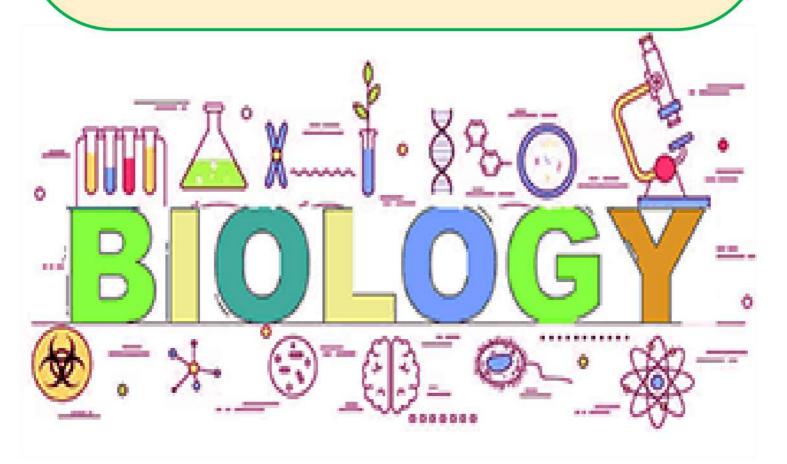
2024-2025

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	مؤسســـــــــــــــــــــــــــــــــــ	لتعليم الأساسي والثانوي لل	مدرسة / الظاهرة ل	rab Emirates
	Name:		on Biology: Gr 11 General	
	Describe the anatomy and physiology of the endocrine, excretory, and nervoi	us systems and explain how these systems	Get it	78
1	interact to maintain homeostasis	as specific and explain now elect space in	Figure 16	124
	1- Which of the following refers to a composystem?	onent of the excretory	A	B
	A B			
	C D		c	
	2- Which of the following refers to a compo	onent that affects the	5	
	kidneys in reabsorption of sodium?			
	A B C	D	by l	
	3- The major excretory organs in the body	?		a
	a- Skin b – kidn	eys	D.	
	c- lungs d-Heart	Mohamad Rajab	D'	
3	Explain the main structure and function of the respiratory, exc	retory and circulatory system	Get it Figure 17	78 78
a	Explain the main structure and function of the respiratory, exc	retory and circulatory system	Get it Defnition from text	78 78
	The functions of excretory system - Collects and eliminates wastes	Excretory system		
1000	-removes toxins and wastes from the body	lungs	Carbon dioxide and water	
	wormleter of fluid and solts in the hadr	skin	Water and salts	

The functions of excretory system	Excretory system	
1- Collects and eliminates wastes	lungs	Carbon dioxide and water
2-removes toxins and wastes from the body		
3- regulates of fluid and salts in the body	skin	Water and salts
4- maintain the PH of the blood	kidneys	Urea (toxins and wastes) and Water

- 4- Which of the following is the function of the excretory system?
  - a- Release energy from food as ATP molecules
  - b- Transport carbon dioxide to body cells
  - c- Remove carbon dioxide, salts, and water
  - d- Maintain the correct amount of nutrients

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5- Which of the following not part of the excretory system?

a- Skin

b- Kidneys

c- lungs

d-Stomach

Lungs

Skin

Kidneys

Ureter Bladder Urethra





6- Which of the following refers to a component of the excretory system?

	0		<u> </u>		
A			The same	The same of the sa	de
В				3 P	88
C		(A)	(B)	(C)	(D)
D					

- 7- Which of the following part of the excretory system?
  - a- Esophagus
- b- Heart

- c-lungs
- d- Stomach

- 8- Which of the following primarily excretes Water and salts?
  - a- Skin

- b- Kidneys
- c-lungs
- d- Bladder

- 9- Which of the following primarily excretes Carbon dioxide?
  - a-Skin

- b- Kidneys
- c- lungs
- d-Bladder
- 10- bean-shaped organs that filter out wastes, water, and salts from the blood?
  - a- Liver

- b- Kidneys
- c-lungs
- d- Heart

E	Evaluin the main structure and function of the respiratory everytony and sirculatory system	Figure 18 and question	79
,	Explain the main structure and function of the respiratory, excretory and circulatory system	Information from text on specified page	79
		Information from text on specified page	79
6	Explain the main structure and function of the respiratory, excretory and circulatory system	Information from text on specified page	79

- 10- Which of materials cannot removed by nephrons?
  - a- proteins and water

b- protein and wastes

c- Protein and blood cells

- d- Blood cells and CO2
- 11- Which of the following the basic filtering unit of the kidney?
  - a- urinary bladder

b- nephron

c- lungs

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- d- renal arteries
- 12- Where do you find the Bowmans Capsule?
  - a- Nephrons
- b- Alveoli
- c- Renal pelvis
- d- Diaphragms

- 13- In which of the following organ do you find the glomerulus?
  - a- Skin

- b- Brain
- c- Kidney

- d- Pancreas
- 14- Which of the following transports nutrients and wastes to the kidney?
  - a- Renal vein
- b- Renal artery

c- Ureter

d- collecting tubule



# 

### مدرسة / الظاهرة للتعليم الأساسي والثانوي للبنين



	المناف
15-	Which of the following letters represents the <u>loo p of Henle</u> in the picture?

15- Which of the	following l	etters represents	the <u>loo p of He</u>	enle in the picture?
A	В	C	D	(A) (B)
16- Which letter	refers to th	e <u>Bowmans Caps</u>	sule?	Glomerulus
A	В	C	D	From renal
17- Which letter	indicates th	e location of <u>blo</u>	od filtration?	To renal (C)
A	В	C	D	vein
18- Which letter	indicates th	e location of <u>real</u>	bsorption?	THE STATE OF THE S
a- A and I	3	b- B and D		Capillaries To ureter
c- B and C		d- A and D		(D)
	Mohamad R	ajab		Hotorod Ro.
19- Which of the	following l	etters represents	the <u>Renal Cor</u>	tex in the picture below?
a	b	c	d	d
20- Which of the	following l	etters represents	the <u>Ureter</u> in t	the C
picture below?				b
a	b	c	d	Renal at
21- Which of the	following l	etters represents	the <u>Renal med</u>	lulla in Renai vei
the picture?				
a	b	c	d	à
22- Which of the	following l	etters represents	the <u>Renal pelv</u>	<u>vis</u> in the picture?
a	b	c	d	Instance of the second
Mohai	mad Rajab			*** State Coo
23- Which of the	following c	arry urine produ	iced in the kidi	neys to the bladder?
a- Uretl	nra	b- Uı	reters	
c- Rena	l veins	d- Re	enal tubule	
24- Urine exits th	e body thro	ough which struc	ture?	
a- Uretl	hra	b- Uı	reters	
c- urina	rv bladder	d- Ki	dnev	

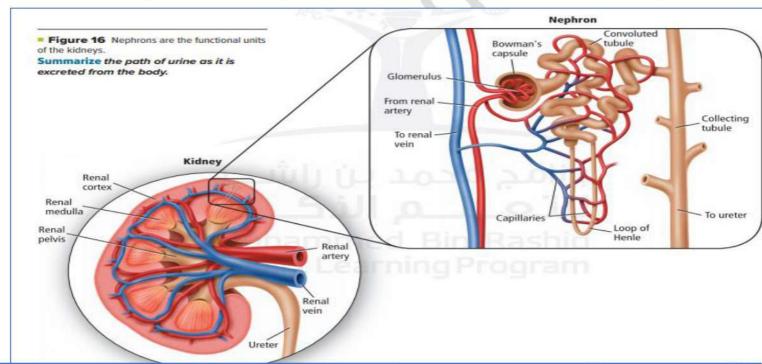




,		Defnition from text	80
	Explain the main structure and function of the respiratory, excretory and circulatory system	Demonstrate Understanding (Q2)	82

#### 25- Which is the correct path that urine will follow in the body?

- a- Kidneys ------ Urethra ------- Bladder ------ Ureters
- b-Bladder → Ureters → Kidneys → Urethra
- c-Kidneys → Ureters → Bladder → Urethra
- d-Bladder → Kidneys → Ureters → Urethra
- 25-Which of the following is the correct sequence of waste products in the Kidney?
  - a- Bowman's capsule glomerulus Renal medulla Renal tubule ureters urinary bladder
  - a- Glomerulus Bowman's capsule Renal tubule Renal medulla Ureters Urinary bladder
  - a- Glomerulus Renal tubule Bowman's capsule Renal medulla Ureters Urinary bladder
  - a-Bowman's capsule Ureters glomerulus Renal tubule Renal medulla Urinary bladder



langer .	23 Sec 193 W 2550 O 200 P 25 25 25 25	Get it	80
11	Explain the main structure and function of the respiratory, excretory and circulatory system	Demonstrate Understanding (Q3)	82
16	Explain the main structure and function of the respiratory, excretory and circulatory system	Get it	80

#### 26- Potassium is placed back into the bloodstream by execratory system through a process called......

a- Excretion

b- Reabsorption

c- Filtration

d- Respiration





27- Which one of the kidney functions conserves waters in the body?

a- absorption

b-reabsorption

c-filtration

d-breathing

28- Which process returns glucose to the blood?

a- excretion

b- reabsorption

c- filtration

d- exhalation

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If you know that the volume of blood that passes through the kidneys is 180 liters and the volume of the formulated urine is 1.5 liters, what percent of the material passing through the kidneys is filtered as urine?

a-0.533

b-0.633

c-0.733

d-0.833

Reabsorption	Reabsorption of Some Substances in the Kidneys			
Chemical substance	Amount Filtered by Kidneys (g/day)	Amount Excreted by Kidneys (g/day)	Percent of Filtered Chemical Reabsorbed (per day)	
Glucose	180	0	100	
Urea	46.8	23.4	50	
Protein	1.8	1.8	0	

Use the table below to answer question 28,29 and 30.

28- Based on the data from the table above. how much urea is reabsorbed by the kidneys?

a- 0.50 g/day

b- 23.4 g/day

c-46.8 g/day

d- 50.0 g/day

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- 29- Based on the data above, what happens to glucose in the kidney?
  - a- It is reabsorbed into the blood
  - b- It is permanently filtered out the blood
  - c- It is treated in the kidney like creatinine
  - d- It is treated in the kidney like urea





#### 30- Infer why proteins are not removed by nephrons

- a- The collecting ducts are not removed by nephrons
- b- Protein cannot be filtered
- c- Protein never enter the nephron
- d-Protein are reabsorbed by nephrons

		Information from text on specified page	80
12	Explain the main structure and function of the respiratory, excretory and circulatory system	Demonstrate Understanding (Q4)	82
19	Investigate the renal diseases and disorders and their treatment	Table 3	81
19	investigate the renal diseases and disorders and their treatment	Demonstrate Understanding (Q4)	82
		Information from text on specified page	80
13	Investigate the renal diseases and disorders and their treatment	Information from text on specified page	81
			***
		Figure 19	81
14	Explain what causes the development of kidney stones and the ways to eliminate them	Table 3	81

Excretory Disorder	Brief Description
Nephritis	Inflammation of the glomeruli can lead to inflammation of the entire kidneys. This disorder can lead to kidney failure if it is left untreated.
Kidney stones	Hard deposits form in the kidneys that might pass out of the body in urine. Larger kidney stones can block urine flow or irritate the lining of the urinary tract, leading to possible infection.
Urinary tract blockage	Malformations present at birth can lead to blockage of the normal flow of urine. If it is untreated, this blockage can lead to permanent damage of the kidneys.
Polycystic ( kidney disease	This is a genetic disorder distinguished by the growth of many fluid-filled cysts in the kidneys.  This disorder can reduce kidney function and lead to kidney failure.
Kidney cancer	Uncontrolled cell growth often begins in the cells that line the tubules within the kidneys.  This can lead to blood in the urine or a mass in the kidneys, or it can affect other organs as the cancer spreads, which can lead to death.

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31-Predict the consequence of kidney impairment by infections or disorders?

a- Death

b- Disrupted homeostasis

b-inflammation of the kidney

d- high blood pressure

32- Which of the following is a symptom of Kidney infections?

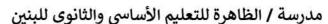
a- Nausea

b-swelling of body tissues

c- blood in urine

d- mid- to low- back pain







	Kidney infections	Nephritis
symptoms	fever	swelling of body tissues
	chills	blood in urine
	mid- to low- back pain	protein in urine

- 33- Inflammation of the glomeruli can lead to inflammation of the entire kidneys:
  - a- Kidney Stones

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b- Nephritis

c- Kidney cancer

- d-Polycystic kidney disease
- 34- Which of the following is a symptom of Nephritis?
  - a- Nausea

b-Frequent and painful urination

b- Fever

- d- Protein in urine
- 35- Crystallized solid such as calcium compounds, that forms in the kidney?
  - a- Nephritis

- b Nephron
- c- Kidney stone
- d- Glomerulus



- 36- Uncontrolled cell growth often begins in the cells that line the tubules within the kidneys:
  - a- Kidney Stones
- b- Nephritis
- c- Kidney cancer
- d-Polycystic kidney disease
- 37- Genetic disorder distinguished by the growth of many fluid-filled cysts in the kidneys. This disorder can reduce kidney function and lead to kidney failure:
  - a- Kidney Stones
- b- Nephritis
- c- Kidney cancer
- d-Polycystic kidney disease

To and the second	W W STATE OF THE S	Figure 20	82
15	Investigate the renal diseases and disorders and their treatment	Explain your thinking (Q5)	82

- 38- Procedure in which an artificial kidney machine filters out wastes and toxins from a patient's blood:
  - a- Dialysis
- b- Kidney Transplant
- c- Reabsorption
- d- Filtration
- 39- Which of the following patient will most likely need the dialysis machine shown in the figure

below?

- a- Kidney stones patient
- b- Kidney failure patient
- c- Urinary tract blockage patient
- d- Liver cancer patient

Unfiltered blood is pumped into a dialysis machine.

Membrane

Waste products

Wein Artery

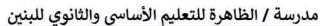
Filtered blood is pumped from the dialysis machine.

Figure 20 Dialysis is used to filter wastes and toxins from a patient's blood.

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Skull Cerebrum

Cerebellum

Ī		Describe the anatomy and physiology of the andorring excretory, and parvous systems and explain how these systems	Figure 17	125
	10	Describe the anatomy and physiology of the endocrine, excretory, and nervous systems and explain how these systems interact to maintain homeostasis	Defnition from text	125

- 1- Which of the following refers to the letter (B)?
  - a- Thyroid gland

b- Pituitary gland

- c- Hypothalamus
- d-pineal gland
- 2- A gland located at the base of the brain:
  - a- Thyroid gland
- b- Pancreas
- c- Pituitary gland
- d- pineal gland
- 3- Which of the following is called the master gland?
  - a- Pancreas

- b- Thyroid gland
- c- Pituitary gland
- d- brain
- 4 Which of the following hormones secreted by the Pituitary gland?
  - a- Calcitonin

b- Human growth hormone

c- Insulin

d- Estrogen

The letter	The gland
Α	Thyroid gland
В	Para thyroid gland
С	Adrenal (the cortex)
D	Pituitary
Е	Pancreas

Pons

Medulla 4

oblongata

Spinal cord

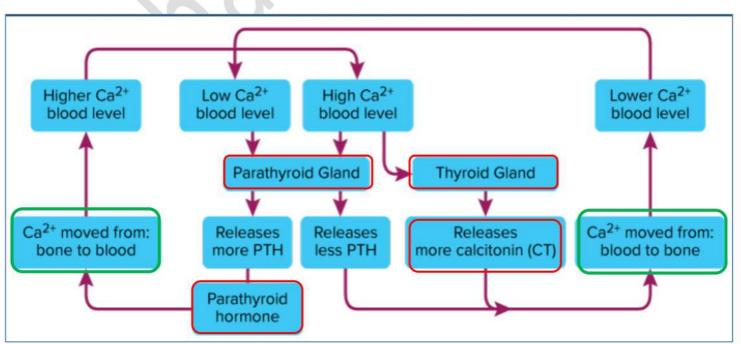
Brain.

stem

# 5- Which letter of the following refers to a gland that secretes the Human growth hormone?

- A
- В
- D
- $\mathbf{E}$

20	Explain how the positive and negative feedback regulate hormones level in order to maintain the internal conditions of	Get it	125	
	a living system	Figure 18 and question	125	
		1		





6- The figure below explains how negative feedback is important in maintaining homeostasis, Which of the following letters represents the parathyroid gland?

a b

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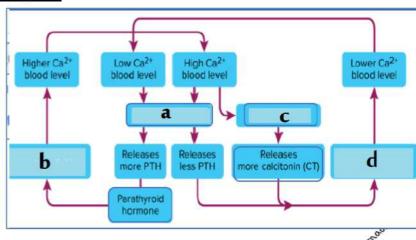
c d

7- The figure below explains how negative feedback is important in maintaining homeostasis, Which of the following letters represents the Thyroid gland?

a ł

c d

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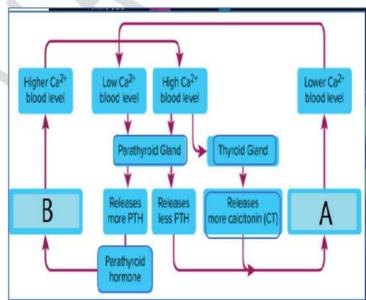


8- In the figure below Parathyroid hormone (PTH) and calcitonin (CT) regulate the of calcium in the blood. Which of the following refers to the letter (A)?

- a- Ca2+ moves from the bone to blood.
- b- Ca2+ moves from the blood to the bone.
- c- Ca<sup>2+</sup> moves from the thyroid gland to the spleen.
- d- Ca2+ moves from the spleen to the thyroid gland.

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- 9- Which of the following refers to the letter (B)?
  - a- Ca2+ moves from the bone to blood.
  - b- Ca2+ moves from the blood to the bone.
  - c- Ca2+ moves from the thyroid gland to the spleen.
  - d- Ca2+ moves from the spleen to the thyroid gland.



10- Which hormone is released when high Ca+2 blood level?

a- Calcitonin b- glucagon

c- Insulin d- Estrogen

11- Which of the following Increase blood calcium level?

a- Thyroxine b- Calcitonin

c- Testosterone d- Parathyroid hormone

12- Which pairs of hormones have opposite effects?

a- Calcitonin and parathyroid hormone

d- Aldosterone and cortisol

b- Epinephrine and norepinephrine

c- Growth hormone and thyroxine

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### مدرسة / الظاهرة للتعليم الأساسي والثانوي للبنين



17	Identify common diseases and the organs and/or body systems that they affect			ay affect	Information from text on specified page	12	6
1,	identity common diseases and the organs and/or body systems that they affect				Information from text on specified page	12	6
		Injury rate	Age		occurs		
	Type 1 diabetes	20%	By age of 20	When be	ody cannot produce insulin		
	Type 2 diabetes	70-80%	After age of 40		ne body becoming insensitive to insulin		

13- What is the effect of the body not producing enough insulin?

a- Dwarfism

b- Type 1 diabetes

c- Type 2 diabetes

d- Low calcium in the blood

14- Which of the following causes Type 2 diabetes?

a- When body cannot produce insulin.

b- When body cannot produce Glucagon.

c- The cell of the body becoming insensitive to insulin.

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d- Eat large amounts of carbohydrates and proteins.

14- Which disease results from the body not using insulin properly?

a- Asthma

b- Hypertension

c- Type 2 diabetes

d- Arthritis

10	Explain how the positive and negative feedback regulate hormones level in order to maintain the internal conditions of	Information from text on specified page	126
10	a living system	Information from text on specified page	126

Adrenal gland

Secret epinephrine (adrenaline) and norepinephrine

Adrenaline rush occurs when there seems to be a sudden burst of energy during a stressful situation

Called fight or flight response

increase heart rate / blood pressure / breathing rate / blood sugar levels

All increasing the activity of the body cells

15- Which person is likely to have high levels of epinephrine?

a- Person A

b- both person

c- Person B

d- nether person





A.

В.



16- Which gland responds to a stressful situation by producing a hormone that increases heart rate, blood pressure, breathing rate, and blood sugar levels?

a- adrenal gland

b- hypothalamus

c- parathyroid gland

d- pituitary gland

17- Which of the following hormones is secreted during a stressful situation (fight or flight response)?

a- Insulin and glucagon

b- Epinephrine and norepinephrine

c- Calcitonin and parathyroid hormone

d- aldosterone and Cortisol

18- Which endocrine gland would provide a burst energy to a person moving out of the way of a speeding bicycle?

a- Parathyroid

b- Pituitary

c- Thyroid

d- Adrenal

19- Which hormone increases heart rate, blood pressure, breathing rate, and blood sugar levels during

stressful situations?

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a- Insulin

b- Calcitonin

c- Epinephrine

d- aldosterone and

librium, and	Describe the homeostatic processes involved in maintaining water, ionic, thermal, and acid-base equilibrium, and
cts of medical Demonst	explain how these processes help body systems respond to both a change in environment and the effects of medica
Demonst	treatments

Figure 19	126
Demonstrate Understanding (Q2)	128

pancreas	Insulin	Lower blood glucose levels
panereas	glucagon	increase blood glucose levels

20- Which organ secretes glucagon (Insulin)?

a- Liver

b-pancreas

c- Kidneys

d- Adrenal

20- Which pairs of hormones have opposite effects?

a- Epinephrine and norepinephrine

b- Growth hormone and thyroxine

c- Insulin and glucagon

d- Aldosterone and cortisol

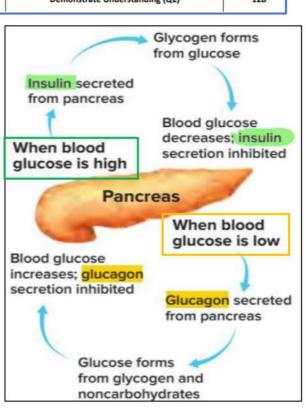
21- Which hormone is released when blood glucose is high?

a- Calcitonin

b- glucagon

c- Insulin

d- Estrogen







#### 22- Which hormone is released when blood glucose is low?

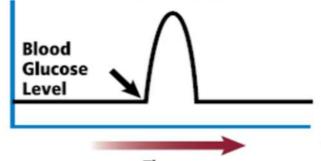
- a- Calcitonin
- b- Glucagon
- c- Insulin
- d- Aldosterone

- 23- What is the role of glucagon hormone?
  - a- Increase blood glucose levels
  - b- Converting glucose into glycogen
  - c-lower blood glucose levels
  - d-lower blood calcium levels
- 24- The graph below shows the blood glucose levels over a period of time. Which hormone might have

caused a sudden sugar as indicated by the arow?

- a- Antidiuretic hormone
- b- Growth hormone
- c- Insulin
- d- Glucagon

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		Information from text on specified page	126
9	Describe the anatomy and physiology of the endocrine, excretory, and nervous systems and explain how these systems interact to maintain homeostasis	Demonstrate Understanding (Q4)	128

Endocrine gland	hormones	Function	
Pituitary gland	Human growth hormone (hGH)	regulates the body's physical growth by stimulating cell division in muscle and bone tissue	
Thyroid	Thyroxine	causes cells of the body to have a higher rate of metabolism	
	Calcitonin	lower blood calcium levels	
parathyroid	Parathyroid hormone	increases blood calcium levels	
Pancreas	Insulin	Lower blood glucose levels	
	glucagon	increase blood glucose levels	
Adrenal glands (cortex)	Cortisol	raises blood glucose level / reduces inflammation	
	aldosterone	affects the kidneys to reabsorbing sodium	
	epinephrine (adrenaline)	increase heart rate / blood pressure / breathing rate / blood sugar	
	and norepinephrine	levels	
		(Adrenaline rush occurs when : sudden burst of energy during a stressful situation.)	



## 

A

c-liver

26- Which letter of the following refers to a gland that

27- Which letter of the following refers to a gland that

secretes the hormones Aldosterone and Cortisol?

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The letter

В

The gland

Para thyroid gland

Thyroid gland

25- Which letter of the following refers to a gland that secretes the hormone thyroxine?

D

secretes the Huma	an growth h	ormone?	North Control		- 170-25 ST VI.		
A	В	D D	E	С	Adrenal (the	cortex)	
28- Which letter of the following refers to a gland that secretes the hormone <u>Insulin</u> ?			a gland that	D	Pituitary	Pituitary	
A	В	C	E	Е	Pancreas	Pancreas	
M	Iohamad Raj	ab	L		1 /5111/5/5 5115		
29- Which a gland	d that secre	tes the horm	one thyroxine?				
a- Para thyroid gland			b- Thyroid gla	b- Thyroid gland			
c- Pituitary gland		d- Pancreas	d- Pancreas				
30- Hormone cau	ses cells of t	he body to l	nave a higher rate o	f <u>metabolis</u>	<u>m</u> .		
a- Thyroxine			b- Calcitonin				
c- Testosterone			d- Parathyroid hormone				
31- Which of the	following ho	ormones sec	reted by the cortex	of Adrenal	glands?		
a- Glucagon			b- Aldosterone				
c- Thyroxine			d- Insulin				
32- Which of the	following of	hormone a	ffects the kidneys to	reabsorbir	ng sodium?		
a- Insulin	a- Insulin b-Growth h		b-Growth horn	ione			
c- Aldoste	c- Aldosterone d-C		d-Cortisol	-Cortisol			
33- Which of the	following of	hormone ra	aises blood glucose	level and re	duces inflammation?		
a- Thyroxi	ine		b-Growth hormone				
c- Aldostei	rone		d-Cortisol				
Describe the homeostatic processes involved in maintaining water, ionic, thermal, and acid-base equilibr					Figure 21	128	
explain how these processes help body systems respond to both a change in environment and the effects treatments				of medical	Defnition from text	128	
34- Which of the		rving as lin	k between the Nerv		and The Endocrine Syste	em?	

d- Adrenal gland

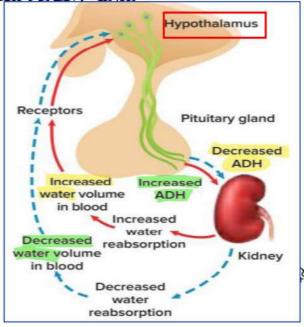




	Oxytocin	Smooth muscles in uterus		
<b>Hypothalamus</b>	Antidiuretic	Regulating water balance		
	hormone ADH			

- 35- Describe the function of the antidiuretic hormone (ADH).
  - a- absorb sodium
  - b- raise blood glucose levels
  - c- regulate water balance
  - d- lower blood calcium

Mohamad Rajab



36- Below are three statements about the action of antidiuretic hormone (ADH):

Which of these statements is true?

- 1- More ADH is related when the water content in the blood rises.
- 2- ADH decreases the amount of water in the urine.
- 3- When ADH is released, the kidneys reabsorb more water.

a-1 and 2

b- Only 3

c- 2 and 3

d-Only 1

- 37- In the case of dehydration, the antidiuretic hormone binds to kidney cells receptors causing.....
  - a- The kidney to reabsorb more water and increase the amount of water in the urine
  - b- The kidney to reabsorb more water and decrease the amount of water in the urine
  - c- The kidney to excrete more water and decrease the amount of water in the urine
  - d- The kidney to excrete more water and increase the amount of water in the urine
- 38- What are the hormones secreted by the hypothalamus (nerve cells)?

a- Aldosterone and cortisol

b- Calcitonin and cortisol

c- Estrogen and Growth hormone

d- Antidiuretic hormone (ADH) and Oxytocin

With my sincere wishes for good luck and success

Teacher: Mohammad Rajab