



## 1st YEAR FINAL EXAM

DATE: 6 /6 /2018

TIME: 2 HOURS



**TOTAL MARKS: 75** 

#### ALL QUESTIONS TO BE ANSWERED:

I. Give short note on:

(5 marks each)

- a. Types of DNA?
- b. Polyunsaturated fatty acids?
- c. Chromatin organization?
- d. Essential amino acids?
- e. Mutarotation?
- f. Rancidity?

II. Illustrate with structure formula only the followings:

(5 marks each)

- a. Tryptophan?
- b. Sucrose?
- c. Tyrosine?
- d. Hyaluronic acid?

III. Compare between:

(5 marks each)

- a. Competitive & non-competitive enzyme inhibition?
- b. Sucrose & invert sugar?
- c. Glycogen, cellulose & starch?

IV. Give an account on biochemical reactions of monosaccharaides?

(10 marks)

N.B. oral examination will be at 9 am,  $7^{th}$  , June 2018 Good luck



## Aswan university - faculty of medicine Medical Biochemistry & Molecular Biology Dep

1st Year Final Exam (September-2018) Time allowed: (2 hours) Total marks: (80)



#### All questions to be answered:

## All questions in one page:

1. Give definition for the followings: (4 degree each)

- a. Mutarotation?
- b. Isoelectric point?
- c. Epimers?
- d. Rancidity?
- e. Apoenzyme?

2. Illustrate with structure formula only the followings: (5 degree each)

- a. Dextrose?
- b. Galactose?
- c. Tryptophan?
- d. Linolenic acid?
- e. Heparin?

3. Give short nots on the followings: (7 degree each)

- a. Sugar acids?
- b. Types of DNA?
- c. PUFAs?
- d. Replication?
- e. Regulation of enzyme activity?

GOOD LUCK

Aswan University

Faculty of Medicine

Dep.of Medical Physiology

Tuesday, 22/5/2018

First Year medical Students

Final Medical Physiology Exam.

Time allowed: 3 Hours

Total Marks: 125

The Examination is composed of **TWO** pages.

## Answer all the following questions:

1- Cardiovascular (1):	(25 Marks)
a- Define cardiac reserve and mention its mechanisms and limitations?	(10 Marks)
b- Define vagal tone and explain its mechanism?	(10 Marks)
c- Draw and describe the pulse pressure curve?	(05 Marks)
2-Cardiovascular (2):	(20 Marks)
a- Give an account on the types of second degree heart block?	(10 Marks)
b- Mention FIVE factors affecting the capillary permeability?	(05 Marks)
c- Discuss the local effects of muscular exercise?	(05 Marks)
3- Respiratory system:	(30 Marks)
a- Discuss factors affecting the gas diffusion across the respiratory men	nbrane?
	(10 Marks)
b- Define lunge compliance and discuss:	(10 Marks)
<ul><li>factors affecting it?</li><li>factors causes its abnormalities?</li></ul>	
c- Define Haldane effect and mention its importance?	(05 Marks)
d- Enumerate FIVE causes of cyanosis?	(05 Marks)
4- Gastrointestinal:	(20 Marks)
a- Mention Five functions of HCL?	(05 Marks)
b- Describe the mechanism of chewing reflex?	(05 Marks)
c- Compare between secretin and cholecystokinin hormones(stimulus o	f release
and functions)?	(10 Marks)

5- Blood: write an account on functions of:	(17 Marks)
a- blood platelets?	(07 Marks)
b- red blood cell membrane?	(05 Marks)
c- reticuloendothelial system?	(05 Marks)
6-Nerve and Muscle:	(04 Marks)
Describe the excitation contraction coupling in skeletal muscle?	
7- Autonomic Nervous System	(06 Marks)
What are the function of parasympathetic supply to the pelvic viscera?	
8-Biophysics:	(03Marks)
Explain the mechanism of facilitated diffusion?	

Good Luck .Prof.Mahmoud Raafat and Exam Committee.





Date: 20/6/2018 Time: 3 hours

Number of pages: 16

Name:

Aswan university
Faculty of medicine
Anatomy department

Mark: 125

## Final anatomy examination for the first year medical student

Complete the	followings:
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l	-Low	er	limb	(30	marks	) as 1	tollo	WS				
(	A	+B		+C	+D	+I	Ţ	+F	+ (	G	):	

-The	superfic	ial injui	nal lym	ph nodes	are di	vided int	0			and
		group.	The .		group	lie just	below	and par	rallel	to
			. The			lie alon	g both	sides	of	the
				These grou	ups of ly	mph node	es receive	es affere	nt lyn	nph
vesse	els from;		11111							
	*									
The	efferent	of these	nodes	pass throu	igh the		open	ing to	join	the
			that	lie	a	long	side	of		the
							2			
The	efferent	of thes	e nodes	pass thr	ough .			canal	to j	join
			node	es.				(3	mar	ks)

B-	The deep tascia of the thigh is called	to
	form along strong band called which stretche	s from the
	to the The iliotibial tract receives	the insertion
	of The function of the iliotibial	tract is
		s a gap 4 cm
	below and lateral to the pubic tubercle is called It to	ransmits
2	The lower lateral margin of it is and is called	
	It is covered by loose connective tissue called	
	it is covered by loose confidence distance and a finite finite for the covered by loose confidence and a finite finite for the covered by loose confidence and a finite finite finite for the covered by loose confidence and the covered by loose covered by loose confidence and the covered by loose co	(C marks)
C	The femoral artery begins behind theligam	ent at the
C-		
	point (midway between	
	continuation of	
	of the thigh. It ends at in the opening in the muscle three	
	passes into to become	
	upper half of the femoral artery is in thetriangle while	
	lies in thecanal. The surface anatomy of the fe	-
	corresponds to	
	I CAL Comment	
The	e branches of the femoral artery are:	
I-	Branches in femoral triangle are:a	
	bc	
	de	
II-	Branches in the adductor canal are	
		(4 marks)
D. TI	he knee joint is the largest and most complicated joint in the body	Its type is
	variety. its articular parts are	
	• Ligaments of the knee joint are:	
τ	wto compular ligaments and	
	xtracapsular ligaments are:	
	b	
C	d	

II-intracapsular ligaments are:
Movements of the knee joint are:
a
(4 marks)
E- The sciatic nerve arises within
Along its course the lies on its back. The sciatic nerve can be represented by a line drawn from a point to a point
(4 marks)
F- The superior extensor retinaculum is  It is attached medially to, It is attached laterally to  Its function is to  • Structure pass deep to the superior extensor retinaculum from medial to lateral are:
ab
cd
e f
• Structure pass superficial to the superior extensor retinaculum are:
a-

- 1	It is attached to
	The structures under cover the flexor retinaculum arranged from medial to lateral are:
	a b c
	• The superior peroneal retinaculum is
	It is attached superiorly to
	(6 marks)
	The bones of the foot are arranged to form 3 arches:  is higher and more resilience than
	Its keystone is, Its anterior pillar is formed by
	Its posterior pillar is formed by
8	• The arch is lower and more solid than
	Its keystone is, Its anterior pillar is formed by
	Its posterior pillar is formed by
	• The arch is an incomplete arch reach the ground. When the medial border of the two feet are placed together a dome is formed. It is formed by
	• Factors maintain the arches of the foot are:
	abd
	• Functions of the arches of the foot are:
	abdd
	Cu

• The flat foot (pes planus) is	narks)
II-Pelvis (15 marks) as follows	
(A+B+C+E=):	
A- The male urethra is about	
• The female urethra is much, and than male urethra, being aboutlong.	
• The pelvic part of the ureter is about the same length as the abdominal part, e which being long. (3n)	each of narks)
B-The prostate is a organ. It surrounds the	
The prostate has the following capsules:	••
• The internal iliac artery begins medial to	of the unk of ior
	narks)

C-	- The anatomical support of the uterus is through the followings:
	a-Its normal position which is b-The muscle.
	c-The followings strong cervical ligaments:
	• Each uterine tube is about long. It lies in the free margin of
	• The anterior wall of the vagina is long, while its posterior wall is long, ie. Its anterior wall is shorter due to
	<ul> <li>The vagina is antomically supported as follows:</li> </ul>
	a- Its upper third is supported by
	b- Its middle third is supported by
	c- Its lower third is supported by
	(3 marks)
D-	The ischioanal fossa is a
	• The fossa contains the followings:
	The internal and subjector surrounds
	• The internal anal sphincter surrounds
	external anal sprinteter surrounds
TC.	E-The rectum begins as a continuation of
	urface oflong.

<ul> <li>The peritoneal covering of the rectum is as following:</li> </ul>
a
b
C
• Its arterial supply is through the following arteries:
a arises from
b arises from
c arises from
(3 marks)
III-Abdomen (30 marks) as follows
(A+B+C+D+E=):
77 JUN 188
A-The inguinal canal has the following boundaries:
a- the anterior wall is formed by
• Strucutres pass through the inguinal canal in male are
while in <b>female</b> are
<ul> <li>The wall of the scrotum consists of the following layers:</li> </ul>
a
b muscle,
c fascia which is a prolongation of
d fascia which is a prolongation of
e fascia which is a prolongation of
Lymphatics from the wall of the scrotum drain into
• lymphatics of the testis drain into
• The arterial supply of the testis is artery, which is a branch

• The veins arising from the testis form
The vas deferens can be palpable by
(6 marks)
B-The portal vein is formed by union ofvein and
and ascends in the free border of
of the liver where it ends by dividing into
• The followings are the sites of portosystemic anastomosis:  a- At the lower end of the
condition called
b- Around the umbilicus where there is anastomosis between
c- At the junction of the upper and lower halves of the
d- In case of portal hypertention , these anastomosis become dilated and tortious , acondition known
(6 marks

C-The spleen is a large mass lies in the region.
• The surface marking of the spleen can be indicated as follows:
The upper border of the spleen lies oppositerib.
The inferior border of the spleen lies oppositerib.
The long axis of the spleen lies oppositerib.
The medial end of the spleen is at
The lateral end of the spleen is at
• The splenic pedicle consists of: a
• Each kidney has the following capsules (coverings): a- b- c-
The surface marking of the kidney from behind (Morris parallelogram) can be drawn as follow
• The posterior surface of each kidney is related superiorly to
• Each kidney receives its arterial supply from

D-The aorta enters the abdomen through infront of
vertebrae. It descends on the bodies of
till it reaches where it ends b
dividing into Branches of the abdominal aorta are:
Anterior visceral branches:
· automy opings at the level of
iartery arises at the level of
ii artery arises at the level of
···
iii artery arises at the level of
• Lateral visceral branches:, and
Lateral parietal branches:
i ii
• posterior branch which is arises at the level of
• The peritoneal ligaments of the liver are:
ab
c d
• The non peritoneal ligaments of the liver are:
ab
(6marks)
(01131111)
E-The anterior relations of the stomach are
E-The anterior relations of the stomach are
, and
• The posterior relations of the stomach (stomach bed) are:
,and

•	Arterial supply to the stomach:
	a arises from
	barises from
	carises from
	darises from
	earises from
	(6 marks)
	(o marks)
IV-	Thorax (15 marks) as follows
( )	+ B + C =)
(A	+ <b>B</b> + <b>C</b> )
	Tt degeards
	A- The internal thoracic artery is a branch of It descends
	vertically on the pleura behind costal cartilages, a finger breadth lateral to
	space by dividing into
	• In addition it also gives the following branches:
	a b
	cd
	<ul> <li>The posterior intercostal arteries of the first 2 spaces are branches</li> </ul>
	of which is a branch of
	that arises from
	• The posterior intercostal arteries of the lower nine spaces are branches of:
	<ul> <li>The right posterior intercostal veins drain as follows:</li> </ul>
	i-the first right posterior intercostals vein ends into
	ii-the second and third right posterior intercostals veins end into
	iii-from the right fourth posterior intercostal vein till the eleventh posterior
	intercostal vein end into
	The left posterior intercostal veins drain as follows:
	i-the first right posterior intercostals vein ends in
	ii-the second and third left posterior intercostals veins fuse to form
	which ends into
	Willow Oldo Hito

iii-from the right fourth	posterior intercostal vein till the eighth	vein end into
	venth end into	
	formed by It is f	
	inches from the	
0	of the heart is formed by	
	nt on the	
	the heart is formed by I	
-	to the	
	er of the heart is formed by	
	It extends from the	
33.57	to	
	er of the heart is formed by	
	nt on thedow	
point on the		
	ch of aorta are,	
	,and	
		(5marks)
C- The anterior border of t	he right lung begins behind	and runs
	andclose to the middle lin	
	ne level of cartilage). It	
vertically downward until	it reaches the	
	r of the left lung has a similar course, but	
	,it deviatesto reach a po	int about 4 cm
	at the level of	
<ul> <li>The lower border of</li> </ul>	f the lung in midinspiration follows a cur	ving line, which
	in the midclavicular line and	
midaxillary line and	reaches the spine 2 cm	from the
middle line posterior	- A	
	er of the lung extends downwards from a	
tc	the level of the	
<ul> <li>The root of the lun</li> </ul>	g is formed of, ,	
,		
	. and l	
by a tubular sheath of	that extends downward below	w the hilum
forming		(5marks)

## V-General embryology (25 marks) as follows

$$(A---+B---+C---+D---+E---=---)$$
:

A-The derivatives of the neural crest cells are:,
,
,
and
• The remnants of the notochord will be represented by:, and
• The decidua is the, It consists of three parts:
• Spermatogenesis means
• The full term placenta has the following criteria:
shape:diameter:
weight:surfaces:
(5marks)
B- The placental barrier (placental membrane) consists of:,
and
<ul><li>The amnion has the following fetal functions:</li></ul>
a
b
C
d
e
• The amnion has also the following maternal functions:
a
b
• Anomalies of the amnion are:and
• Result of fertilization are: a
b
•The implantation means
•The normal site of implantation is
• The abnormal sites of implantation are:,
,

and
Ovulation means
After rupture of the mature graffian follicle, one of the two events must occur:  and
Covering of the mature ovum are:     and
• The chorion consists of
By development, it projects three types of the following chorionic villi:     i
Placenta previa means     Types of placenta previa are     i-     ii-     iii-     (5marks)
D-The umbilical cord has the following contents:,
Abnormally long umbilical cord may be complicated by:
i ii  iii  • Abnormally short cord may cause.
• Abnormal insertion of the cord in the placenta:
icalled

	i	
	ii	
	iii	******
	iv	(5marks)
E-D	erivatives of the ectodermal germ cells are:	
	iiiii	
	iiiiv	
	vvi	
	viiviii	
	ixx	
•	The para axial mesoderm is segmented into number of somites vidifferentiated by an oblique fissure into:  i	
	iigives	
angal a	The intermediate mesodermal plate is called	
•	Within the lateral mesodermal plate an inverted u shaped cavity a calledthat gives rise to:	ppears
	iii	••
	iii	(5marks)
VI-Introd (A + B-	uction (10 marks) as follows =):	
A- Par	asympathetic outflow to the body comes from:	
While	e the sypmpathetic outflow to the body comes from:	

• Functions of the yolk sac are:

0	The subtypes of the fibrous joints are:
	a between.
	bbetween
	cbetween
0	While the subtypes of the cartilaginous joints are:
	a example of
	b example of
•	The subtypes of synovial joints according to the shape of their articular parts:
	a example of
	b example of
	c- example of
	d example of
	(5 marks)
B	3-In unipennate muscle, the fibers are located on
	In bipennate muscle, the fibers are located on
	in Dipennate musele, the froets are focated on
_	The meeter maint is
0	The motor point is
	While the motor unit is
0	
	The superficial fascia is theenvelop of the body. It is a layer
	between
	*
	between
•	between
•	between
•	between
	between
•	between

انتهت الأسئلة



## Final Exam of Cytology & General Histology for 1<sup>st</sup> Year Medical Students



Aswan University

Date: 1- 7 -2018	No of Exam Pages: 9	Total marks: 75	Time allowed: 2hrs
I. Give the histolog	gical differences between the	following:	====> (14 Marks)
I.1 Lysosomes ar	nd peroxisomes.		(5Marks)
	Lysosomes	Pero	oxisomes
Structure			
Origin			
Function		~	- 5
I.2 Unilocular a	nd multilocular fat cells.		(2.5Marks)
Unil	ocular fat cells	Multilocula	r fat cells

I	3	Chon	drocvt	e and	osteocyte.
	•	CHICH		-	000000,000

(2.5Marks)

Chondrocyte	Osteocyte

I.4 Medium sized artery and vein.

(4Marks)

Medium sized artery	Medium sized vein

	II- Fill in the blanks:	(17 Marks)
	II.1 Enumerate the molecular components of the nuclear membrane.	(1Mark)
	a)	
	b)	
	c)	
c	II.2 Enumerate the structural components of blood-thymus barrier.	(2Marks)
	a) b)	,
4	c) d)	
	II.3 Enumerate the structural components of the nucleolus.	(2Marks)
	a)b)	
	c)d)	
	II.4. Enumerate collagen secreting cells.	(2Marks)
	a) b)	
	c) d)	
	II.5. Enumerate types of cartilages.	(1.5Marks)
	1)	
	2)	. ,
	3)	
	II.6. Enumerate types of T- lymphocytes.	(1.5Marks)
	1)	
	2)	Á
	3)	
z	4)	
	5)	
ž.	II.7. Enumerate types of neurons (according to number of fibers).	(1.5 Marks)
	1)	6
	2)	
	3)	

....

II.8. The wall of blood vessels is formed of:	(1.5Marks)	
1)- (=dir.lv		
2)		
3)		
II.9. Enumerate types of synapses (according to mode of impulse transport)	(1.5Marks)	
1)		
2)		
3)		
II. 10. Mention the main characters of epithelial tissue.	(2.5 Marks)	
1)		
(edia175) substruit alt to eta magno) bruitas es est		
3)		
4)		
5)		
III- Indicate True (T) or False (F): (15 Marks, 1Mar	k each)	
1-The intercalated discs are structures found in both cardiac and skeletal muscle fibe	ers. ( )	
2- Hassal's corpuscles are present in thymus cortex.	( )	
3- By LM, the nucleolus appears as a basophilic mass limited by single unit membra	ane. ( )	
4- The microtubules are not facilitating the intracellular movement or endocytosis.	( )	
5- Euchromatin is related to coiled x-chromatin.	( )	
6- Blood platelets are derived from megakaryocytes by mitosis.	( )	
7- The percentage of reticulocytes in normal blood is less than 1-2%.	( )	
8- Anisocytosis means variation in the shape of RBCs.	( )	
9- All blood cells arise from pluripotential stem cell in the bone marrow.	( )	
10- The central pale area in red blood corpuscles increases in the hypochromic anen	mia. ( - )	
11- Epithelial cells specialized for sensory receptions are called glandular epithelium		
12- Intercellular ionic exchange is achieved by tight junction.	H(.E)umeral	
13- The myelin sheaths in CNS are formed by neurolemmal cells	( -   )	
14- The wall of the cerebral arteries is characterized by well developed internal elas	stic lamina. (	
15- Absorptive membranes are lined by columnar cells with apical microvilli.	(-(1)	

#### IV- Choose the correct answer:

## ====> (15 Marks, 1/1)

## IV.1. The T-lymphocytes are responsible for:

- a. Phagocytosis.
- b. Cellular immunity.
- c. Humoral immunity.
- d. Secretion of heparin and histamine.

## IV. 2. The following describe a cell active in protein synthesis **EXCEPT**:

- a. Have a basophilic cytoplasm.
- b. Its chromatin is mostly heterochromatin.
- c. Have a well-developed rER.
- d. Its chromatin is mostly euchromatin.

#### IV. 3. The S-phase of the cell cycle is the phase where:

- a. DNA filaments are divided.
- b. DNA is duplicated.
- c. Only protein synthesis occur.
- d. Organoids are formed.

## IV. 4. The periarterial lymphatic sheath (PALS) present in:

- a. Thymic medulla.
- b. White pulp of the spleen.
- c. Thymic cortex.
- d. Lymph node.

## IV. 5. Free ribosomes are mainly concerned with:

- a. Synthesis of steroids.
- b. Synthesis of cytoplasmic proteins.
- c. Conduction of material in the cytoplasm.
- d. Synthesis of secretory proteins.

## IV. 6. During erythropoiesis haemoglobin begins to appear in the cytoplasm of:

- a. Normoblast.
- b. Basophil erytroblast.
- c. Proerythroblast.
- d. Polychromatophil erythroblast.

## IV. 7. B- lymphocytes have the following characters **EXCEPT**:

- a. They originate from bone marrow.
- b. Responsible for cell mediated immune responce.
- c. Form 25% of circulating lymphocytes.
- d. Have specific surface receptors.

## IV. 8. During granulopoiesis specific granules begin to appear in the cytoplasm of:

- a. Myeloblasts.
- c. Promyelocytes.

- b. Metamyelocytes.
- d. Myelocytes.

## IV. 9. Type III collagen is present in:

- a. Capsule of lymph node.
- c. Matrix of bone.

- b. Hyaline cartilage.
- d. Stroma of spleen.

#### IV. 10. Metachromatic granules are found in:

- a. Plasma cells.
- c. Fat cells.

- b. Mast cells.
- d. Myelocytes.

## IV. 11. The glandular epithelium that secrete directly into the blood stream is:

a. Merocrine.

b. Endocrine.

c. Holocrine.

d. Exocrine.

## IV. 12. In nerve cells, residual bodies accumulate and become pigmented material called:

- a. Multivesicular bodies.
- b. Lipofuscin deposits.
- c. Autophagic vacuole.
- d. Autophagic phagosomes.

## IV. 13. Multipolar neurons are the following **EXCEPT**:

a- Pyramidal cells.

b- Purkinje cells

c- Stellate cells.

d- Schwann cells.

#### IV. 14. The wall of I.V.C. is characterized by:

- a. Well developed internal elastic lamina.
- b. Well-developed tunica media.
- c. A layer of longitudinal smooth muscle fibers in the adventitia. .
- d. A layer of longitudinal smooth muscle fibers in the media.

## IV. 15. The keratinized stratified squamous epithelium is represented by:

- a. The lining epithelium of the oesophagus.
- b. The lining epithelium of the trachea.
- c. The epidermis of the skin.
- d. The lining epithelium of the aorta.

V. Only with a diagram illustrate the histological structure of young active fibroblast. (5Marks)

VI. Only with a labeled diagram illustrate the structure of sarcomere.

(5Marks)

VII. Only with diagram illustrate the structure of continuous blood capillary. (4 Marks)

\*\*\*\*\*\* ( انتهت الأسئلة ) \*\*\*\*\*\*\*

"Have a Good Luck"

**Examination Committee:** 

Prof. Dr. Amal Taha Prof. Dr. Gamal Kamel

Prof. Dr. Ramadan Sayed



## Final Exam of General Histology for

1st Year Students (Reset Exam)



Aswan University

Faculty of Medicine
Department of Histology

ate: 9-9-2018 Number of Exam Pages	: 6 Time allowed: 2hrs
Give the histological differences between the	following structures? ===>(20 Marks, 1
.1. Fibroblast and plasma cell	(4 Marks)
Fibroblast Fibroblast	Plasma cell Cartilage and bone
13000	
	ч
9	
2. Skeletal and smooth muscle fiber	(4Marks
Skeletal muscle fiber	Smooth muscle fiber
Dendecites	1107

I.3. Medium sized artery and vein	(4 Marks)
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Medium sized artery	Medium sized vein
Cartilage and Bone	(4 Marks
Cartilage	Bone
9	
. Axon and dendrites	(4 Mark
Axon	Denderites

- Fill in the blanks:		(20 Marks)
II.1.Enumerate types of endogenous p	pegments.	(1.5Mark)
a) b)		a Osteopilisi b. Osteovitti c. Osteovilisi d. Osteoviliti tital
II.2.Enumerate the thymus dependen	t zones.	(1.5Mark)
a) b)		h. Pinkijnje odla v svitne adla
II.3.Enumerate types of neuroglia pro		(3Marks)
c)		a Mantanas cell de mandamentatura le Participates in cal mandamentalment can ilipates apresed alla monarcanorum
II.4.Enumerate the types of simple ep	ithelium.	d. All of the (saraMs)  -k Concerning the ribesomes:
a) b) c)		b lece ribosunte aparente protesses
d)	embranous orga ving, sorting, a rt. organelle involv	anelle composed of multiple flattened and packaging proteins and lipids for (1Mark)
II.7.The		that degrade damaged and unnecessary (1Mark)
II.8. Theis a protein molecules to and from the nucleus.(1Max)		es that may play a role in transporting
II.9. The Parkinson's disease, is		e caused by
		(1Mark)
II.10.Enumerate the stages of the devel	opment of RBC	Cs (Erythropoiesis)? (3Marks)
1)	6)	Amerial Initia callifa, attantire fice of L8
2)	7)	a annocamage a
3)	8)	Standed blanck Little
4)	9)	<ul> <li>The percentage of reticulory tesm is ver less than the percentage.</li> </ul>
5)		
II.11.Enumerate types of bone cells		ant hazarij zi nagniha (3Marks)
1)	3)	rich per vollingen is present in: a Caprate of Extraphoods
2)		h Hyalme curillage. Vaurix o'ibens

(20 Marks) ood () - [[[

a. Capsule of lymph node.b. Hyaline cartilage.c. Matrix of bone.d. Stroma of spleen.

# III. 11.Metachromatic granules are found in:a. Plasma cells.b. Mast cells.c. Fat cells.

#### III. 12. Which of the following is responsible for secretion of tropocollagen?

- a. Plasma cell.
- b. Macrophage.

d. Pigment cells.

- c. Fibroblast.
- d. Adipocyte.

## III. 13. The eukaryotic cells are characterized by:

- a. Have histones.
- b. Have nuclear membrane.
- c. Have membranous organelles.
- d. All of the above.

#### III.14. What is called a low resistance junction?

- a. Tight junction
- b. Gap junction
- c. desmosome
- d. None of the above

#### III.15. Stratified squamous non keratinized epithelium can be found in:

- a-Trachea.
- b- Urinary bladder.
- c- Esophagus.
- d- Uterus.

#### III.16. Concerning the cytoplasmic organelles:

- a. Each organelle carries out specific metabolic activity within the nucleus.
- b. Are membrane-bound or membrane-less living cytoplasmic structures.
- c. Serve as transportation vehicles for intracellular substances.
- d. All of the above.

#### III.17. Nissl granules are present in the cytoplasm of:

- a. Neuroglial cells.
- b. Neurons.
- c. Plasma cells.
- d. Eosinophils.

#### III.18. Serous glands include:

- a. Parotid gland.
- b- Oesophageal glands.
- c- Goblet cells.
- d- Sebaceous glands.

#### III.19. Which tunica contains circularly arranged layers of smooth muscle cells?

- a. Tunica adventitia.
- b. Tunica interna
- c. Tunica media.
- d. Tunica intima.

#### III.20. The wall of I.V.C. is characterized by:

- a. Well a developed internal elastic lamina.
- b. Well-developed media.
- c. A layer of longitudinal smooth muscle fibers in adventitia.
- d. A layer of longitudinal smooth muscle fibers in the media.



المادة: حاسب آلي

الزمن: ساعة

التاريخ: 2018/05/26 م

الفرقة: الأولي - كلية الطب البشري

الإمتحان: دور مايو 2018 م



## أجب عن الاسئلة الاتية

## السؤال الاول: 30 درجة

أ. وضح بإيجاز طريقتان مختلفتان لنقل البيانات.

ب. حول العدد 2(101.01) إلي ما يكافئه في النظام العشري

ت. أوجد ما يكافي العدد 10 ( 5.125 ) بالنظام الثنائي.

ث. حول العدد 2 ( 1 0 0 1 0 1 0 1 ) من النظام الثنائي الى النظام السادس عشري.

## السؤال الثاني: 20 درجة

أ. أذكر مكونات وحدة المعالجة المركزية central processing unit مع توضيح وظيفة كل منهم.

ب. أذكر الاربعة وظائف الاساسية للحاسب.

ج. وضح الفارق بين كل من:

- نوعى الذاكرة الرئيسية ROM & RAM
  - التعبيران Hardware & Software

تمنياترِبالتوفيق، د/محمدعيد

Aswan University
Faculty of Medicine
1st Year
2nd semester 2017/2018



Course: English
Total: 50 Marks

## Answer the following questions:

<u>First</u>: Medical system in Britain differs from its counterpart in Egypt. In an essay of about 300 words, discuss this topic.

Second: complete the following definitions using the words in the box.

systems - tissues - musculoskeletal - epithelial - aggregate - pairs

The body is organized into cells, tissues, organs, and ...1...... A cell is an ...2...... of protoplasm: organic material and fluid. It contains a nucleus or nuclear material. A cell is the smallest unit of life for all plants and animals. Groups, or aggregates, of similar cells acting together to perform specific functions make up...3...... Primary tissues in the body are the...4....., connective, skeletal, muscular, and nervous tissues. Organs are parts of the body that have specific functions. They are made up of specific types of tissues. Some organs like the lungs and kidneys are in...5...., but for the most part, organs are single entities. They are organized into body systems. Some examples of organ systems are the cardiovascular system, the ......6..... system, and the digestive system.

GOOD LUCK

Dr. Taher Okasha