Kafrelshiekh University Faculty of Physical Medicine Time Allowed: 2 Hours Total: 50 Marks

first Year Final Anatomy Exam. Anatomy Department 10/1/2018 2 pages



Very Important: each part of question must be written in a separate page

QUESTION (1)(40 MARKS):

A- Mention the origin and the branches of the radial nerve (diagram needed) (8marks)

B- Discuss the Anastomosis around elbow (5marks)

C- Discuss the Ligaments of the shoulder joint (6 marks)

D- Describe the Borders and contents of the Cubital fossa (6marks)

E- draw a diagram illustrated the formation of the brachial plexus(roots, division, cords and branches. (5 marks)

F- Enumerate the muscles of the <u>pectoral region</u> and describe <u>TWO of them</u> (origin, insertion, action and nerve supply) (8 marks)

G- Problem solving: (2 marks)

A pregnant patient presents with a history of numbness and tingling in her right thumb and index finger during each of her previous four pregnancies. Symptoms are worse in the morning and could be somewhat relieved by vigorous shaking of the wrist. Examination revealed atrophy and weakness of the abductor pollicis brevis, the opponens pollicis, and the first two lumbrical muscles. Sensation was decreased over the lateral palm and the palmer aspect of the first three digits. Numbness and tingling were markedly increased when the wrist was held in flexion for 30 seconds.

- 1-The symptoms suggest damage to which of the following?
- a. The radial nerve
- b. The median nerve
- c. The ulnar nerve
- d. Musculocutaneous nerve
 - 2- what is your diagnosis

QUESTION (2) (MCQ)...Choose the correct answer:(10 MARKS):

- 1. The artery that supplies the bone marrow is:
- A. Periosteal artery.
- B. Epiphyseal artery.
- C. Metaphyseal artery.
- D. Nutrient artery.
- 2. Pneumatic bones are present in the:
- A. Upper limb.
- B. Skull.
- C. Lower limb.
- D. Thorax.

1

3. All the followings form the articular surfaces of the elbow joint \underline{EXCEPT} :

- A. Medial epicondyle
- B. Capitulum of humerus
- C. Head of radius
- D. Troclear notch of ulna

4. One of the following muscles is **NOT** a rotator cuff:

- A. Supraspinatus.
- B. Infraspinatus.
- C. Teres major.
- D. Teres minor.

5.Ulnar nerve supplies the following muscle in the forearm:

- A. Flexor carpi ulnaris
- B. Flexor digitorum superficialis
- C. Palmaris longus
- D. Pronator quadrates

6. The following nerve is a branch from posterior cord of brachial plexus:

- A. Musculocutaneous nerve
- B. Median nerve
- C. Ulnar nerve
- D. Lower subscapular nerve

7. Supinator muscle is supplied by:

- A. Median nerve
- B. Anterior interosseous nerve
- C. Radial nerve
- D. Posterior interosseous nerve

8.One of the following muscles share in adduction of the wrist joint:

- A. Flexor carpi radialis.
- B. Flexor carpi ulnaris.
- C. Flexor policis longus.
- D. Adductor policis.

9. Anterior interosseus nerve is a branch of:

A. Median nerve

B. Ulnar nerve

C. Radial nerve

D. Musclocutaneous nerve

10. Carpal tunnel transmits the followings **EXCEPT**:

- A. Median nerve
- B. 4 tendons of flexor digitorum superficialis
- C. 4 tendons of flexor digitorum profundus
- D. Tendon of flexor carpi radialis

With My Best Wishes
Dr/ Manal El-Bermawy

Kafr El-Sheikh University Faculty of Physical Therapy Class: First Year (Freshmen) Course Title: English Language



Time Allowed: 2 Hrs. Final Exam Total Mark: 80 Date: 13/01/2018

ATTEMPT THE FOLLOWING QUESTIONS:

I) Write an essay on the topic below:

20 Marks

Health and Illness

20 Marks

II) Complete the following statements:

1. The English expressions for the words coxa and femur are and

- 2. The left lung is divided into
- 3. Medical problems associated with 'stools' relate to the function of
- 4. A PRHO is
- 5. The function of the bladder can be explained as follows:

III) Re-write the following sentences in their correct lexico-grammatical form:

- 1. This time last year, many computer companies were launching a new antivirus program. It is certain that many students can be worried about oral, and not written, exams.
- 3. The doctor insisted that the patient takes no anaesthetic for the headache.
- 4. I wish the driver will be cautious enough as to avoid any accidents.
- 5. With too many corpses of animals in the seas, diseases will have spread across many parts of the country.

IV) Translate the following passage into Standard Arabic:

20 Marks

Consultant physicians and surgeons are responsible for a specific number of patients in the hospital. Each consultant has a team of junior doctors to help care for those patients. In many hospitals, there are multidisciplinary teams which consist not only of doctors but also of physiotherapists and other allied health professionals. When patients enter - or are admitted to - hospital, they are usually seen first by one of the junior doctors on the ward where they will receive treatment and care. The junior doctor clerks them - takes their medical history and examines them. Some time later, the registrar also sees the patients, and may order investigations, or tests, for example X-rays or an ECG, make a provisional diagnosis, and begin treatment. The consultant usually sees the new admissions - people who have recently been admitted to the ward - for the first time on one of the regular ward rounds, when the management of the patients is discussed with the registrar. Consultants also decide when a patient is ready to be discharged (sent home). On the ward round, the consultant is accompanied by the team and a nurse, and they visit all the patients in the consultant's care.

> BEST OF LUCK Amir H. Y. Salama

23- Intervention/treatment is implemented and modified may include manual handling. (in order to reach agreed goals a
24- Physical therapy should be oriented toward the patier	nt's resources rather than the
person's problems.	()
25- A well-documented informed consent is the hallmark	of any ethical research work.
26- Interprofessional collaborative practice is not essential family health outcomes.()	l for improvement in patient and
27- Mention functional support financial is important in	PT research. ()
 28- Frequently thinking of the patient when away from care. () 29- Professional boundaries circumscribe the therapeutic and physical therapist. () 	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
30- Informed consent form should include an explanation and the expected duration of the subject's participation	
31- Complete the following. 1- Benefits of interprofessional collabora	(10 grades) ation:
Α	
В	
C	
D	
32- Give short notes about:	(10 grades)

A. Professional Boundaries. (only definition and its types)

ETHICS

First Year (1st Semester) Kafrelsheikh University Faculty of Physical Therapy Basic Sciences Department

(Code: PT)

Date: 6 / 1 /2018 Time Allowed: 2 Hours Total Marks: 80 Marks Number of Pages: 4

Multiple choice questions

(28 grades)

Choose A if the first sentence is true.
Choose C if the two sentences are true.

Choose B if the second sentence is true.

Choose D if the two sentences are false.

- 1. Ethical committee:
 - A. Is the most important checkpoint for promoting ethical research in the country.
 - B. Involve prolonged academic training and a formal qualification.
- 2. Characteristics of a Profession:
 - A. Extensive period of education
 - B. Skill based on theoretical Knowledge
- 3. Core Values: Social Responsibility is related to:
 - A. Physical therapists shall participate in efforts to meet the health needs of people locally, nationally, or globally.
 - B. Physical therapists shall be accountable for making sound professional judgments.
- 4. Diagnosis and prognosis arise from
 - A. the examination and evaluation
 - B. represent the outcome of the process of clinical reasoning
- 5. The purpose of the diagnosis in physical therapy:
 - A. Is to guide physical therapists in determining the prognosis and most appropriate intervention strategies for patients.
 - B. reveals findings that are not within the scope of the physical therapist's knowledge
- 6. Discontinuation is:
 - A. The process of ending physical therapy services provided during a single episode of care.
 - B. The physical therapist determines that the patient/client will no longer benefit from physical therapy
- 7. Prognosis is:
 - A. Identification of existing or potential impairments.
 - B. Determination of the predicted optimal level of improvement in function.
- 8. Discharge is the process of ending physical therapy services
 - A. Because the anticipated goals and expected outcomes of treatment have been achieved.
 - B. The physical therapist determines that the patient/client will no longer benefit from physical therapy

9. Code of Ethics is built upon five roles such as:		
A. Consultation.		
B. Research		
10. Physical therapy delivered in a variety of settings that allow it to achiev	e its	
purpose such as:		
A. Education and research centers.		
B. Out-patient clinics.		
11. From factors important to successful physical therapy:		
A. A physical therapist should become too involved with the pat	ient's	
personal or social problems.		8
B. Patient motivation is a vital component of successful therapy		
12. Purposes of Code of Ethics are to:		
A. Define the ethical principles that form the foundation of phys	ical	
therapist		
B. Provide guidance for physical therapists facing ethical challen	ges,	
regardless of their professional roles and responsibilities		
13. Physical therapy Ethics in research:		
A. Mention functional support financial		
B. Control group should be used twice.		
14. Informed consent form should include:		
A. An explanation of the purpose of the research and the expect	ed dur	ration
of the subject's participation.		
B. A description of any benefits to the subjects or to others that	may	
reasonably be expected from the research.		
II. Put (V) or (x) for each statement (32 grades)		
15- Physical therapists are integral members of the primary care team and are in	ivolvec	d in
prevention of disability and promotion of positive health. ()		
16- Diagnosis in physical therapy is the result of a process of clinical reasoning ()	
17- One of physical therapist responsibilities is prevention of impairments and a	ctivity	
limitations.	()
18- Diagnosis and prognosis arise from the examination and evaluation	()
19- Discharge is the process of ending physical therapy services provided during	a single	е
episode of care because the anticipated goals and expected outcomes of tre	atmen	t
have not been achieved ()		
20- Evaluation is the process of making clinical judgments, based on examination	ı data,	to
create a problem list for each patient.	()
21- Discontinuation is the process of ending physical therapy services provided a	ifter	
successful treatment achieved.	()
22- In physical therapy ethics and laws are the same meaning.	()
2		

Kafrelshiekh University Faculty of Medicine Histology Department

Allocated marks: 50

(Physiotherapy) Dec. 2017

Time allowed: two hours



Answer the following questions

- 1. Give an account on <u>Skeletal Muscles</u> with references to <u>The triad Tubular System</u>.

 (7 marks)
- 2. Describe the types of **Connective tissue fibers**.

(5 marks)

- 3. State the histological structure of <u>Stratified squamous epithelium.</u> (5 marks)
- 4. Give an account on Osteoclasts Cell (Sites, L.M., E.M. and functions)

(3 marks)

5. Describe the Characteristics of Aorta.

(3 marks)

6. Mention fate of primary lysosomes.

(5 marks)

- 7. State the shape and structure of <u>Red Blood Corpusles</u> & adaptation to their functions. (5marks)
- 8. Discuss the structure of **Elastic Cartilage**.

(7 marks)

9. Compare between different types of $\underline{\textbf{Ganglia}}$.

(5 marks)

- 10.Name two sites for each of the following:
 - a- Simple squamous epithelium.
 - b- Simple cuboidal epithelium.
 - c-Simple columnar ciliated epithelium.
 - d-Transitional epithelium.
 - e- Pseudo-stratified columnar ciliated epithelium.

(5 marks)

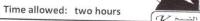
Best Wishes
Dr. Maha Abo Gazia

Kafrelshiekh University Faculty of Medicine Histology Department

Allocated marks: 50

(Physiotherapy) Dec. 2017

Dec. 2017





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(5 marks)

Best Wishes
Dr. Maha Abo Gazia

Kafrelsheikh University Faculty of Physical Therapy 1st year Date: 30/12/2017 Score: 80

Time: 2 hours



Psychology of Handicapped

Answer th	e following question: (80 Mar	·ks)	
	Write short notes about:	(60 Mark	s)
2- F 3- N	Memory: definition, and types.(Psychology: definition, goals, a Motivation: definition, and type Endocrine glands and its effects	ndbranches.(1 es.(15 Marks)	
(B)	Sign $(\sqrt{)}$ or (X) :	(20 Mar	ks)
1	l - John Watson is the founder of	of behaviorism	n. ()
2	2- Assistive technology is one of	of treatment m	ethods that
	physical therapists use to hel		()
3	3- There are two types of reinfo	orcement.	()
4	4- Dyslexia is one of learning d	lisabilities.	()
	5- The attention may be selective		
	5- Psychiatry focused on the di emotional and behavioral dis	agnosis, treatr	ment of mental,
	7- There are three types of puni	ishment.	()
	8- Displacement means that the part of the new information.	e old informati	ion will push out
- (9- Dyscalculia is disability of s		ge ()
	10- Blindness and ocular traum		
	10 Zimanoo ana ooana naan		7.0

Best Wishes,

Dr. AmalZayed

الزمن : ساعتين. التاريخ : ۲۰۱۷/۱۲/۲۷ امتحان الفصل الدراسي الخريفي ألم المستوي الأول مادة: « حقوق الإنسان»

جامعة كفر الشيخ كلية العلاج الطبيعي

أولا: اكتب في موضوع واحد مما يلي:

- ١. عرف الرشوة لغة واصطلاحا، ثم بين حكمها، ووضح الفرق بين الهدية والرشوة.
 - ٢. وضح حق الإنسان في الاسم، وكذلك حق الإنسان في الموطن.

ثانيا: اكتب في موضوعين من الموضوعات التالية:

- ١. الأساليب غير الديمقراطية لنشأة الدساتير.
 - ٢. إعادة النظر في الدستور.
 - ٣. نهاية الدساتير.

مع تمنياتنا للجميع بالنجاح والتوفيق

Kafrelsheikh University
Faculty of physical therapy
First year 1st term



Physiology final exam

Time: two hours

17/1/2018

Answer the following questions? (Each question 10 marks)

- Q1- Discuss mechanisms of blood coagulation?
- Q2- Enumerate Functions of?
 - 1- Red blood cells.
 - 2- Plasma proteins.
- Q3- Autonomic ganglia: definition, types and functions?
- Q4- Mention functions of sympathetic to head& neck and its lesion?
- Q5- Resting membrane potential: definition, values and causes?

Good luck

Kafrelsheikh University Faculty of Physical Therapy Women's Health Department



Time Allowed: two Hours Total Marks: 80 Marks Date: 6/1/2018

Communication skills (Final exam)

(Code: 20500)

I: Choose the correct answer	(30 Marks)
1- "Before I finish "is an expression used in of	f presentation
(Introduction -conclusion - main body)	
2- Listening of audience to what he want to listen is	listening
(comprehensive- selective-critical)	
3- We must be focus and send short massages when we deal	with
personality (emotive-reflective-directive)	
4- When we deal withpersonality we need to use	the fact in our
discussion (emotive-reflective-directive)	
5- One of environmental barrier of sending massages are	(gender-
light- culture)	
6- Listening with think about something else is Lis	tening (ignoring-
inattentive- critical)	
7- Given direction to find location needt	ype of listening
(comprehensive- inattentive- appreciative)	a selection of the
8- This is more difficult when giving longer presentations in that	at there is a lot of
material to be memorized, this istype of presentation	on. (memorized -
impromptu- read)	
9- When we deal withpersonality we need to tell all	details (emotive-
reflective-directive)	

- 10- The type of questions used to get the person attention (Direct–Hypothetical- Probing) questions.
- 11- Direct eye contact when listening means (remember- imagination- interest).
- 12- Personal zone usually used for (Family sports– social) interaction
- 13- Slow nodding of the head indicate (refuse impatience interest) with the speaker.
- 14- The word account (7%-55% -38%) for the meaning of message
- 15- Emotions can express by (tone- speed- pitch) of voice.

II- Choose (A) if the first sentence is true Choose (B) if the second sentence is true Choose (C) if the two sentences are true Choose (D) if the two sentences are false (20 marks)

1-Feedback

- A- It enables the sender to evaluate the effectiveness of the message
- B- In good communication the sender can take another step without it

2- Empathetic listening

- A- Need concentration by mind for every word as robot
- B- When we listen to distressed friend who want to send his feeling

3-Communication

- A- Is a passive process between the subjects.
- B- Our quality to do relationship depend on our quality of communication

4-To become good presenter

- A- Prepare and training on the topic of presentation
- B- Understanding the audience of your presentation

5- You can get the attention of your audience by

- A-Neglect their feedback
- B-Make active participation by ask question

6- Fear of presentation A-Is normal emotional responses to situations B-Can overcome this fear by good training 7-Body language A-Is conscious part of communication B-Presented 7% of our communication 8-Memorized type of presentation A-Is the easy type of presentation B-Less contact of audience 9- Extemporaneous presentation A-This involves cue cards or slides on which you summarize the main points of presentation B-Loss contact with audience 10-The sender in the massage must has A-Clear thinking B-Decoding the massage III: Put $\sqrt{\text{ or } \times}$ 1- Feedback is the response or reaction of the receiver after perceiving or understanding the message () 2- Communication is an art need passive participation() 3- Body language is a conscious part of communication() 4- Each person has different respond to the same stimulus or massage()

7- Listening process does not require voluntary attention or conscious effort()

8- Feedback should focus on person, not the issue of discussion()

5- Effective communication depend on active listening(6- Attentive listener concentrate in each word as a robot(

- 9- Open body language can come from passivity, aggression, acceptance, supplication, or relaxation ().
- 10- Facial expressions express not only the emotion but the degree of emotion()

IV: Give the meaning in one word

(10 marks)

- 1- Faulty understandings of the message
- 2- Process require voluntary attention and then making sense of what is heard
- 3- Is one of interpersonal skills affecting our ability to develop effective working relationship.
- 4- It is the process of presenting the content of topic to an audience consists of one or more.
- 5- This is type of presentation involves giving a talk with no prior planning, and is often the least preferred method of presentation
- 6- Type of posture caused by injury, illness or skeletal deformities
- 7- Form of non-verbal communication, are not always straightforward to understand represent 55% of communication.
- 8- Brief, involuntary expression betray emotion, and they typically last 1/25 of a second
- 9- Type of question used to get other to think or reflect.
- 10- Part of presentation in which the presenter introduces himself to audience and gives short note about his sequence of topic.

V: Enumerate

(10 Marks)

- 1- The common sources of noise, which can affect communication accuracy and effectiveness.
- 2- Types of Questions

With our best wishes

Kafrelsheikh University Faculty of physical therapy Date 25/5/2017 Time allowed: - 2 Hours



History of medicine

Give short a count on:-

- 1- Traditional Chinese medicine
 (20 Marks)
- 2- Islamic scientist have a great important effect in medicine (20 Marks)
- 3- The role of Roman medicine is very important .(20 Marks)
- 4- Is history of Medicine Just About usually subject? (10 Marks)
- **5-** During the 19th century the world changed dramatically (10Marks)

Good luck Prof Dr/Abd El-Aziz Sherif Kafrelsheikh University Faculty of Physical Therapy First Year First Term 2017/2018



Time: Subject: Bio Total Marks: 50 Biophysics 3/1/2018 Date: Exam in 4 pages.

Answer all the following questions:

Choose one answer per question:

(50 Marks)

1	T ich	f con	travel	in

- A) air only.
- B) vacuum only.
- C) both air and vacuum.
- D) none of mediums.
- 2- Which of the following statements concerning the velocity of action potential propagation is correct?
- A) Is independent of an axon's diameter
- B) Depends on the thickness of the myelin around the axon
- C) Will be unaffected if the axon becomes demyelinated
- D) Is fastest in unmyelinated axons
- 3- ECGs are frequently ordered through computerized systems.

4- Which of the following statement is incorrect

- A) Photoelectric emission does not occur below the threshold frequency
- B) The photoelectric current increases with the frequency of incident light
- C) Threshold frequency does not depend on the metal used
- 5- Thermocouple thermometer is
- A) less responsive.
- B) very responsive.
- C) least responsive thermometer.
- D) unresponsive thermometer.
- 6- Incident ray, reflected ray and normal lie at same point' is a true statement of refraction.

- B) Wrong.
- C) May be right or may be wrong.
- D) Neither right nor wrong.
- 7- Electrical impulses gather and accumulate in which part of a neuron, in order to initiate an action potential?
- A) Dendrites

- B) Axon hillock
- C) Axon terminal branches
- D) Node of Ranvier 8- When the frequency of the incident light is less than the threshold frequency
- A) a little photoelectric current is produced
- B) a large photoelectric current is produced
- C) no photoelectric current is produced
- D) the velocity of the photoelectrons is large
- 9- In a photon-electron collision, one photon can eject two or more electrons
- A) True

- B) False
- 10- Which of following statements related to waves is/are incorrect?
- A) It provides a mechanism for transfer of energy from one point to another without transfer of material.
- B) All waves have same speed i.e. equal to 3×108 m/s.
- C) The source of any wave is vibration or oscillation.
- D) All of above.
- 11- A medical assistant should include which of the following in preparing a patient for cryosurgery?
- A) place a grounding pad somewhere on the patient's body
- B) ask the patient to put on safety goggles
- C) inform the patient that the initial sensation of cold will be followed by a burning sensation
- D) position the patient for the administration of a general anesthetic
- 12- The photoelectric current depends upon
- A) the frequency of incident photon only
- B) the intensity and the frequency of incident radiation
- C) the intensity of incident radiation only
- D) the temperature of cathode

rs in:
7,
Intensity of incident radiation
B) inversely proportional to
 D) directly proportional to square root of
ous process
nts in fluids is termed as Convection.
Convection and radiation.
the action potentials of nerve cells is correct?
e permeability to sodium ions
a manage of the state of the state of the
3
Bit was a way ay dipony of some CLL
perature is regulated more closely than the core
a radiation
mal information.
ns, the greatest loss of body heat occurs through
is termed as
3) Opacation.
Transpiration. the neuromuscular junction is correct?
receptors
alar transmission
liar transmission line (norepinephrine).
ECG are not true?
ılar depolarization.
ventricular fibres.
B) Sensory deprivation
The state of the s
central nervous system (CNS) and sensory neurons is
central nervous system (CNS) and sensory neurons is
central nervous system (CNS) and sensory neurons is to receptors of the CNS
central nervous system (CNS) and sensory neurons is to receptors to the CNS trons through the CNS
central nervous system (CNS) and sensory neurons is to receptors of the CNS
central nervous system (CNS) and sensory neurons is to receptors to the CNS rons through the CNS rerves, which are neurons with cell bodies that occur
central nervous system (CNS) and sensory neurons is to receptors to the CNS trons through the CNS

) Transverse waves.	B) Longitudinal waves.
) Water waves.	D) Electromagnetic waves.
	Justine de Leadine 9
5- Which of the following is p	B) Blood.
) Connective tissues.	D) Fatty cells.
) Muscles.	D) ratty cens.
6- It is the treatment by using	g low temperature applied either locally or generally
) Hydrotherapy	B) Electrotherapy
) Manualtherapy	D) Cryotherapy
7- The maximum Kinetic En	ergy of photoelectrons increases with increase in frequency. It is
ndependent of intensity	D) Folce
a) True	B) False
8- The number of photoelect	rons emitted per second (rate of photoelectrons emission) from a given
netal is directly proportional	to intensity. It is independent of frequency
True	B) False
	Frequency of incident radiation
9- Maximum kinetic energy	of photoelectron is
a) directly proportional to	D) directly proportional to square root of
c) independent of	Local and a second and a second as to do so
0- An ECG can only be perfe	ormed with a physician's order to do so.
A) True	B) False
	ontains wires and cords in the same room with you and the patient will
ot affect the ECG tracing.	
A) True	B) False
	A CONTRACTOR OF THE CONTRACTOR
	asses through a gap or around an edge is called
A) reflection.	B) refraction.
C) diffraction.	D) superposition.
33- Freezing point of ethyl ale	cohol is 156 K, which is equal to
A) 426°C.	B) 117°C
C) -426°C	D) -117°C
44. Instrument used to measi	ure temperature is termed as
A) Barometer.	B) Thermometer.
R) Manometer	C) Galvanometer.
35- Property of thermetic sul	bstances used by thermometer to measure temperature is
A) The chemical property.	B) The physical property.
C) The resistance property.	D) Repulsion property.
36- Which is not a deep heat	therapy
A) Short wave diathermy	B) Ultrasound therapy
C) Infrared therapy	D) Microwave therapy
37- Steam point is equal to 1	00 °C, which is equal to
A) -373 K.	B) -173 K.
C) 373 K	C) 173 K
38- As an ultrasound pulse n	noves through tissue in a patient's body it will not undergo a change in:
A) Frequency.	B) Amplitude (energy).
C) Physical size	D) Intensity
39- The opening of axon mer	mbrane voltage-gated potassium channels is responsible for which part o
the action potential?	
A) Depolarisation of the mem	brane B) Repolarisation of the membrane
C) Contraction of the post syn D) Signalling vesicular release	aptic muscle fibre

40- Which of the following is not a job of the fatty sheath? A- Insulates the neuron from neighboring cells B- Speeds up transmission of the impulse C- Connects two neurons together 41- What is largely responsible for the negative resting membrane potential (around -70 mV) in a
neuron? A) Axonal insulation by Schwann cells. B) Voltage-gated sodium channels opening. C) The action potential. D) Potassium leak currents.
42- Changing from a 2 MHz to a 5 MHz ultrasound transducer would generally produce: A) Faster imaging. B) Deeper penetration. C) Shorter wavelengths.
A) causes vasoconstriction, leading to a decrease in local circulation B) reduces the acute inflammatory response C) decreases local blood viscosity
D) decreases local metabolic rate and secondary hypoxic tissue damage
44- This is the job of the nervous system: A) To send messages to and from the brain and spinal cord to and from the body. B) To break down food to be used by the body. C) To remove wastes from the body. D) All the above answers. E) non of the above 45- Regarding the electroencephalogram (EEG) A) The normal EEG of an awake person is dominated by alpha waves B) The EEG can be used to monitor the health of the brain C) During deep sleep the EEG is always dominated by delta waves D) The presence of theta waves in the EEG of an awake child is indicative of cerebral pathology. 46- Photoelectric cells are used to convert A) light energy into sound energy C) light energy into electrical energy The "sodium-potassium pump" pumps A) sodium ions out and potassium ions in C) sodium and potassium ions in D) sodium and potassium ions out 48- What are the main divisions of the nervous system B) the peripheral nervous system and central nervous system
C) the dendritic and the axonal systems D) the sympathetic and parasympathetic systems
49- The following are adverse effects of ultraviolet radiation Except A) Burning B) Premature aging of skin C) Production of vitamin D D) Carcinogenesis 50- The following is a deep heating modality A) Infrared radiation. B) Shortwave Diathermy C) Hotpacks D) Fango

The End of exam Dr. Kamal Reyad