PHYSIOLOGY DEPARTMENT ELEGE LAHORE 1" YEAR MBBS 2016-17

UNIT TEST: CIRCULATION

SEQs (SHORT EASSY TYPE QUESTIONS) ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS

MARKS= 30 DATED: 10-07-2017 TIME = 40min A. Define cardiac output & cardiac index? Give in detail the regulation of cardiac output? O2. A) Give an account of regulation of coronary circulation? (2.5)B) Discuss the short term regulation of blood pressure & explain the baroreceptor reflex with the help of diagram? (2.5) (13]A) Define Shock? Give the changes which occur in compensated shock? (2.5 (6) A 40 year old female was undergoing gall bladder surgery in emergency OT. She was a complete anesthesia, after which her blood pressure suddenly dropped from 110/70mmHg to 60/40mmHg. (0.5+1 What is the probable diagnosis? What is the reason for this drop in blood pressure? What will be the treatment for this condition? (M. A) Define venous return? Explain the factors affecting venous return? B) Give the laws of hemodynamics? Q6. A) Enumerate the heart sounds and give mechanism of production of each sound on (2 Monocardiogram? B) Briefly describe the changes which occur in the fetal circulation at birth? (2 $Q \overline{Q}$ A) Briefly describe the mechanism of regulation of local blood flow? (3 B), Name the Starling forces regulating the capillary filtration? (2. TFP plasma callected osmtic Pressure capalancy pressure

13

AZKA NAHEED MEDICAL COLLEGE LAHORE

DEPARTMENT OF PHYSIOLOGY 1ST YEAR MBBS 2014-2015

INSTRUCTIONS

1-All subjective part is to be submitted within 40 minutes, no extra time will be given. 2-Neat handwriting, use of margins will increase the outlook /presentation of your paper.

UNIT TEST: CIRCULATION

SUBJECTIVE PART	
ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS.	
TOTAL MARKS: 30 DATED: 08-0)6-15
A) Explain the laws of hemodynamic with formulae governing over the blood flow in the blood	od
vessels? F 12 B) Give the functional classification of blood vessels? F 10	(3)
U ? A 44 44 44 44 44 44 44 44 44 44 44 44 4	(2)
A) What is total peripheral resistance? How it is regulated in the body? FV3+ Confee B) Define venous return? Briefly describe the control of venous return? F57 + Confee (1) Grandle of new wastel (Inflegentall) (1) (likew) (reduction) A) Briefly discuss the marketing of these term control of blood flow) (1)	(2.5)
B) Define venous return? Briefly describe the control of venous return? F 57 + 1 -1	(2.5)
A) Briefly discuss the mechanism of long term control of blood flow?	(3) /A-
agents acting on the blood vessels. [3]	(2)
A) Give the starling forces and their magnitude? How the starling equilibrium is achieved?	(2.5)
B) Explain in detail the haro-receptor reflex? F13	(2.5)
A) Discuss the regulation of coronary blood flow and give its significance? a Layer	(3)
B) Explain the long term regulation of arterial blood pressure: F53	(2)
. A) List the compensatory mechanism operating in reversible stage (compensated) of shock? B) Enumerate the mechanism operating in progressive shock? Gayler	(2.5) (2.5)

5.

DEPARTMENT OF PHYSIOLOGY

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TOTAL MARKS: 30

MBBS First year 2014-15

INSTRUCTIONS

1-All subjective part is to be submitted within 40 minutes, no extra time will be given.

2-Neat handwriting, use of margins will increase the outlook /presentation of your paper.

REVISION TEST: CIRCULATION

SUBJECTIVE PART

ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS.

/	
Give the laws of hemodynamics governing over the blood flow in the blood vessels?	(5)
Define Cardiac Output. How is it regulated?	(1+4
Define shock. Classify it. Give the mechanisms operating in progressive shock?	(5)
4. A) Explain the mechanism of regulation of coronary blood flow? D) Give the functional classification of blood vessels.	(3) (2)
5. A) List the changes in circulatory system during exercise? B) Enumerate the heart sounds and give mechanism of production of each briefly.	(2.5) (2.5)
6. A) List the reflexes responsible for short term control of BP. (B) Explain in detail the baro-receptor reflex.	(2.5)

DATED: 29-06-15

AZRA NAHEED MEDICAL COLLEGE LAHORE



DEPARTMENT OF PHYSIOLOGY

1ST YEAR MBB5 2014-2015

INSTRUCTIONS

1-All subjective part is to be submitted within 40 minutes, no extra time will be given. 2-Neat handwriting, use of margins will increase the outlook /presentation of your paper

SUBJECTIVE PART

ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS. DATED: 08-06-15 TOTAL MARKS: 30

A) Explain the laws of hemodynamic with formulae governing over the blood flow in the blood

(B) Give the functional classification of blood vessels?

) What is total peripheral resistance? How it is regulated in the body? B) Define venous return? Briefly describe the control of venous return?

Briefly discuss the mechanism of long term control of blood flow? (B) Outline the humoral control of circulation by enlisting vasoconstrictor and vasocillator

agents acting on the blood vessels? (2.5)

A) Give the starling forces and their magnitude? How the starling equilibrium is achieved? (2.5)

B)Explain in detail the baro-receptor reflex? (3)

A Discuss the regulation of coronary blood flow and give its significance? B Explain the long term regulation of arterial blood pressure? -) [Cidney] (2)

(2.5)

I List the compensatory mechanism operating in reversible stage (compensated) of shock? (2.5)Enumerate the mechanism operating in progressive shock?

- Give mechanism of tissue bluid formation 6-a-Bahoteceptor teflex CNS Ischemic response Rewise stress relax Mechanism Renin secretion by Ridney and form Angigoran II.

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SOLLEGE LAHORE

DEPARTMENT OF PHYSIOLOGY

MBBS First year 2012-17

DATED: 25-06-13

1-All subjective part is to be submitted within 40 minutes, no extra time will be given 2-Neat handwriting, use of margins will increase the outlook /presentation of your poper

REVISION TEST: CIRCULATION

SUBJECTIVE PART

ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS. TOTAL MARKS: 30

Give the laws of hemodynamics governing over the blood flow in the blood vess-	els? (5)
Define Cardiac Output. How is it regulated?	(1+4)
Define shock. Classify it. Give the mechanisms operating in progressive shock?	(5)
Expeain the mechanism of regulation of coronary blood flow? (1, 247). Give the functional classification of blood vessels.	(L') (3)
List the changes in circulatory system during exercise? Figure and give mechanism of production of each brief the heart sounds and give mechanism of production of each brief. A) List the reflexes responsible for short term control of BP.	Refler (2.5)
-Di Explain in detail the baro-receptor reflex.	(2.5)
A) List the changes in circulatory system during exercises. A) List the reflexes responsible for short term control of BP. By	wale colored
n and Sy -> late diastole due to con	I racher of ant
	AND DESCRIPTION OF PERSONS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT ASSESS

EAR MBBS, 2015-16 (PHYSIOLOGY)

1-All subjective part is to be submitted within 40mins, no extra time will be given. 2-Neat handwriting, use of margins will increase the outlook /presentation of your paper.

UNITTEST: HEART PHYSIOLOGY

SUBJECTIVE PART

ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS. **TOTAL MARKS 30** Time =40mins DATE: 9-5-2016 QLA) List the properties of cardiac muscle? (2) B) Explain the phenomenon of refractory period and Tetanization in cardiac muscle? (3) Q2. A) Draw and label pacemaker potential? (2.5)

Give an impact of sympathetic and parasympathetic nervous stimulation on pacemaker potential? (2.5)

Q3. Define ECG? Draw and label normal ECG showing all the waves, intervals and segments.

(5) O4. A) Define arrhythmia? Give its causes. (2.5)

(2.5)B) Give a comparison between atrial flutter and atrial fibrillation? Q5. A) Define cardiac cycle? Enlist the phases of cardiac cycle? (2.5)

B) Draw pressure changes in left ventricle during the cardiac cycle?

(2) A) List the heart sounds and expain the physiological mechanism for their production. B) Enumerate the heart sounds which you can record in an adult person on (1) phonocardiogram?

C) 55 years old Hamida begum has presented in emergency. On ECG, (1+1)PR- interval=0.34seconds.No other abnormality was found.

a) Diagnose the disease? b) Give the pathonhysiology of disease?

AZRA NAHEED MEDICAL COLLEGE LAHORE

DEPARTMENT 1st YEAR MBBS 2017-18

UNIT TEST: Heart

TIME = 40min

SEQs (SHORT EASSY TYPE QUESTIONS) ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL

MARKS. MARKS= 30 DATED: 14-05-2018

Q1. A) Enumérate the properties of cardiac muscle? By Explain in detail mechanism of automaticity & pacemaker potential

(2 + 3)

(2.5 + 2.5)

Q2. A) Draw ventricular action potential & explain the ionic events in each phase? B) Draw conduction pathway of cardiac touscle with time scale?

(3 + 2)O3 A) Draw & label normal ECG. B) A 40 year- old male patient's ECG shows gradual prolongation of PR interval from normal Only server to the complex.

What is the probable diagnosis on the basis of these ECG findings?

П. What is the pathophysiology of this condition

Q4. A) Define cardiac cycle. Enlist the mechanical events during one cycle? (2 + 3)B) Name and explain the mechanism of production of audible heart sounds. With the help of a diagram correlate them with the phases of cardiac cycle

(2 + 3)O5.A) Draw & label left ventricular pressure during cardiac cycle? B) Explain the effect of increased pre load & after load on the dynamics of pressure volume loop?

(1+1+2+1)

Q6. Define the following:

Frank starling law in heart I. Tetanization in cardiac muscle

П. Difference between atrial flutter & fibrillation-Ш.

Enthovian triangle IV.

CAR MBBS, 2013-14 (PHYSIULUG part is to be submitted within 40mins, no extra time will be given TOTAL MARKS 30 Time = 40mins DATE: 09-04-14 Draw and label normal ECG with normal waves, intervals and segments What is the cause of each ECG wave 2. A) Draw and label ventricular Action Potential with respect to ionic bases of eac Explain the excitation contraction coupling in heart muscles. 3. A) Draw and describe origin of cardiac impulse along with time scale. Explain ECG changes in heart blocks. F. 38 . NOA. (2) A) Define Cardiac Cycle. Enlist the events of cardiac cycle. (2.5)B) Explain with help of diagram the pressure changes in left ventricle during a cardiac (2.5)9 = 105 cycle. (3) 5. A) Enumerate the properties of cardine muscles. (2) B) Explain the automaticity in detail. spentaneous depotantzation, produc A) Define & Classify Arrhythmias. What is Stoke Adam Syndrome? F 39 What is difference b/w Afrial Flutter & Fibrillation? Hutomacily > Costo activity > Conductivity -> Refrectory period

INSTRUCTIONS I-All subjective part is to be submitted within 40mins, no extra time will be given.

2-Neat handwriting, use of margins will increase the outlook /presentation of your paper.

UNIT TEST: HEART PHYSIOLOGY

SUBJECTIVE PART

ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS.

TOTAL MARKS 30

Time = 40mine

Zine MacConstant or in the Constant Constant Constant	$1 \mathrm{mc} = 40 \mathrm{mins}$	
DATE: 11-05-15		
Quest A) Enumerate the properties of cardiac muscles F26 B) Draw the action potential of ventricular muscle. Label all plans functioning for each phase. Mask tale F27	uses & ionic chan t	(2) incls (3)
Qno.2.A) Draw and label Pace maker(S-A nodal) Action Potential. B) Briefly describe the causes of pre potential? Explain the effect parasympathetic nervous stimulation on SA nodal action potential.	t of sympathetic	(3) and (2)
no.3A) Classify arrhythmia? Write down the major causes of arrhyth BEXplain ECG changes in heart block	imias? F37	(3.5)
no.4A) Define cardiac cycle. List all phases of cardiac cycle. F27, B) Explain with help of diagram the pressure changes in left ventr cycle. C/05 200.5A) Draw and label normal ECG with normal waves, intervals and B) What is the cause of each ECG wave F34	icie during a care	(2)
no.6 A) Enumerate the heart sounds audible with stethoscope in the no Differentiate between the First heart sound and second heart so B) Write short notes on i) Stoke Adam Syndrome £35 Franction ii) Ejection fraction F29 iii) Causes of bradycardia iy) Einthoven's law	mai { // ejection du	(1.5) (1) (1) (0.5)
(2.13) Contaneous hypopelasization of all manhane. It tells	· lande depe	lav 17.

INSTRUCTIONS

1-All subjective part is to be submitted within 40mins, no extra time will be given 2-Neat handwriting, use of margins will increase the outlook (presentation of your paper

TEST: CIRCULATORY SYSTEM

SUBJECTIVE PART

ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS. Time = 40 mins TOTAL MARKS 30

	DATE: 14-05-14	
	Give the laws of hemodynamics governing over the blood flow in the blood vessels?	(5)
	Define shock. Classify it according to causes. Give the compensatory mechanisms do operating in non-progressive compensated shock?	(5)
3.	List the different Starling's forces or pressures acting on capillary level & give the mechanism of tissue fluid formation?	(5)
<i>*</i>	Enumerate different BP regressions mechanisms. Explain the role of kidney in long term regulation of BP? Draw and describe origin of cardiac impulse along with time scale	(5)
2 10	/ during exercise?	(2.5)
سيد	A) List the changes in circulatory system during exercise? Distribution of each briefly.	(2.5)
بير	blood flow? 37 F	(2.5)
C	B) Explain the mechanism of regulation of coronary blood flow? If B) A middle-aged man was presented in emergency with severe chest pain, profuse sweating, difficulty in breathing and pink frothy sputum coming out of mouth. After maintaining ABC (airway, breathing and circulation), doctor sent blood sample for cardiac end mes. His troponin T was elevated. Give your diagnosis. Give your diagnosis. Give the causes of death in above mentioned case.	(0.5)
	Give your diagnosis. From	1-1
,7	2.851.3168273.37	
	' // \\	14

SEQs (SHORT EASSY TYPE QUESTIONS)

ATTEMPT ALL QUESTIONS.ALL QUESTIONS CARRY EQUAL MARKS. MARKS= 30 DATED: 11-07-20 TIME= 40min EOs A. A) What is the role of kidney in the long term regulation of blood pressure B) Discuss the short term replaced by the blood pressure & explain the baroreceptor (2.5) (2.5)2. A) Define Shows? Give the Up ries which occur in compensated shock? (2.5) B) A 50 year old woman undergoing a surgery experiences a rapid drop in blood pressu (50/30mmHg) after induction of anesthesia. Her ECG shows normal sinus rhythm. (1+ What is the probable diagnosis? Hewogenic Shock ii What is the reason for this drop in blood pressure? What will be the treatment for this condition? - 1 K ili. He addown Define cardiac output and cardiac index? Give in detail the regulation of cardiac SIGNAGAOI (5)4. A) Briefly describe the mechanism of regulation of local blood flow? B) Name the Starling forces regulating the capillary filtration? (3) (2.5)5. A) Defige heart fallure. What are the dynamics of compensated heart failure? B) Briefly describe the changes which occur in the fetal circulation at birth? (2.5) (2.5) 6. Define the following i__ Poiseuille's law (1+1+2+1)ii. Ohm's law peripheral resistance in teries and parallel vascular circuits mean systemic filling pessure Ams 1 that blood Alow i Law 24042 directly propostion to pressure and was or radius while investil propor viscosity and length a windly

INSTRUCTIONS

I-All subjective part is to be submitted within 40mins, no extra time will be given. 2-Neat handwriting, use of margins will increase the outlook /presentation of your paper.

TEST: CIRCULATORY SYSTEM



SUBJECTIVE PART	
TOTAL MARKS 30 DATE: 14-05-14 Give the laws of hemodynamics governing over the blood flow in the blood vessels? FY2	
TOTAL MARKS 30 Jaw Time = 40 mins	
DATE: 14-05-14 010M3 July 14 (24)	
On Drews the nouth state	
South 3 / / for Found	
-7F65 -7F66	(5)
Define shock. Classify it according to causes. Give the compensatory mechanisms	
operating in non-progressive compensated shock? G= 281	(5)
	(-,
List the different Starling's forces or pressures acting on capillary level & give the	•
mechanism of tissue fluid formation? G 181	(5)
Enumerate different BP ron-letters manhanisms Booking	
Enumerate different BP regulatory mechanisms. Explain the role of kidney in long term regulation of BP? Draw and describe origin of cardiac impulse along with time scale.	
and describe origin of earthac impulse along with time scale.	(5)
A) List the changes in circulatory system during exercise?	
B) Enumerate the heart sounds and give mechanism of production of each briefly. b3 F(2	.5)
- Stilland the Ca INVENTION of	
(A) Explain the mechanism of regulation of coronary blood flows 124 24	e.
b) A middle-aged man was presented in emergency with severe chest pain, profited	رب.
sweating, difficulty in breathing and pink frothy soutum coming out of mouth	
for cardiac enzymes. His troponin Twas electrical.	14
for cardiac enzymes. His troponin T was closated. i. Give your diagnosis. In so Coach all in Control of Coach all in Coac	,,,,
i. Give your diagnosis. 14 30 cm	5)
ii. Give the causes of death in above mentioned case:	2)
t- classisicates Attaining Shocks dicase whase > planna loss of	اسا
A CONTRACT AND TOTAL OF THE CONTRACT OF THE CO	bu
t- classificates Afterinioshocks. 1) Hyporodiannough externational thank a planna loss of in Hyporodiannough externational control and the common of Loss of variables in Menrogenic shock Causes brain damose, Loss of variables in Menrogenic shock Causes brain damose,	Sam
in Meurogenic shock Causes Brain Damos 1 Loss of Caller	+
ii) Meurogene shock course increase vascular capacit	2.
(ii) Anaphy date hock courses peritonitis	7m
	ne
ICAIN? VI) Endotorin shock caused by endutorin	

AZRA NAHEED MEDICAL COLLEGE LAHORE

First test of MBBS First year 2012-17 (Physiology)

INSTRUCTIONS

2-flest handwriting, use of margins will increase the outlook /presentation of your paper

SUBJECTIVE PART

ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS. TOTAL MARKS 30 DATED: 13-05-13

- 1. Give the laws of hemodynamics governing over the b'ood flow in the blood vessels? (5) 2. Define Cardiac Output, How is it regulated? (1+4)3. Define shock, Classify it. Give the compensatory mechanisms operating in non-progressive compensated shock? (5) 4. A) Explain the nechanism of regulation of coronary blood flow? (3) B) Give the causes of death in acute coronary artery occlusion & M 1? 1960 (2) 19: the different Starling's forces or pressures acting on capillary level & give the mechanism or orang fluid formation? 点
- Enumerate different BP regulatory mechanisms. Explain the role of kidney in long term (5) regulation of BP?

Q-3 a. Write down the hemodynamic law which explain the relation of blood flow and diameter of blood vessel. (1 mark)

b. During exercise, the blood vessels in exercising muscles becomes dilated to fulfil the extra oxygen demand. Enlist the mechanisms which enables blood vessels to become dilated. (1.5 marks)

c. During a practical performance on a 20 years old boy with the help of power lab, heart sounds were recorded. Mention the name of record of heart sounds and outline the mechanism of production of all four heart sound.

(2.5 marks)

Q 5-A) A patient with a history of myocardial infarction was brought to emergence because he became unconscious without any warning; his color was pale and his pulse rate during the episode was 40/min. His ECG showed dissociation between the rhythm of the P waves and that of the QRS-T complexes; he regained consciousness after few seconds.

a. Which is the most likely diagnosis?

b.What is the underlying mechanism for such abnormality?

c.Which is the mechanism by which patient recovered?

B) With the help of diagram show the effect of sympathetic stimulation on pacemaker potential. Briefly explain its mechanism. (2.5 marks

(0.5 marks)

(1 mark)

(1 mark)

AZRA NAHEED MEDICAL COLLEGE LAHORE 1st Year MBBS

Cardiovascular module

24th June. 2020

SUBJECTIVE PART (SEQs)

TOTAL MARKS: 30
INSTRUCTIONS

1-All subjective part is to be submitted within 40 minutes, no extra time will be given.

2-Neat handwriting, use of margins will increase the outlook /presentation of your paper

Q 1- a. Define cardiac cycle. Enlist the phases of cardiac cycle.

Q 1- a. Define cardiac cycle. Enlist the phases of cardiac cycle.
(1+2 marks)

b. Draw the pressure changes in left ventricle during cardiac cycle.

(2 marks)

Q 2- a. Define ECG. (1 mark)

b. Draw and label a normal ECG. (2 marks)

c. Which parameters can be calculated from ECG? (2 marks)

Q 6- a. In patients of hemorrhage, long term mechanism of blood pressure regulation play an important role. Discuss how renin angiotensin aldoster system (RAAS) help in regulating blood pressure in such patients of low

b. A cardiac patient was found to have left ventricular pressure of 180 mm Hg and aortic pressure of 110 mm of Hg during systole on echocardiograp What could be the cause of this high left ventricular pressure in this patien

blood pressure in the form of flow chart.

Name the condition.

c. What type of abnormal heart sound you will hear in aortic area in the

patient mentioned in part b? (1 marks)

(3 marks)

(1 marks)

Q 4- a. Make a flow chart depicting the regulation of blood pressure immediately when a person stands up after prolong lying and experience slight fall in mean arterial pressure of 10mm of Hg.

(3 marks

b. Trace the conducting pathway with complete labelling of its different components along with time taken by impulse. (2 marks

First YEAR MBBS 2013-14 (Physiology-Subjective)

receive part is to be submitted within 2 hours 10 minutes, to extra time will be given chandwriting, are of margins will increase the outlook greatestation of your paper

SEND-UP EXAMINATION (2014) SEQ PAPER

ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS.

AL MARKS = 50

DATED: 12-09-14

Time = 2 hours 10 min

List all means of transport across the cell membrane,

- d) What is Secondary active transport? Explain its different types with examples.
- A) Irfan met a road accident, was taken to a hospital where on blood grouping, he was found to be B Positive. By mistake he was transfused with A Positive blood. Give the reactions you will expect in this case

Helicoliscuss the regulation of rate of Erythropoiesis in humans.

Describe neuromuscular junction and transmission with the help of a diagram.

- B) A young 30 year old weman with a drooped left cyclid complains of double vision, difficulty in swallowing and severe muscle fatigue on mild exertion. Her family history is found to be positive for such disease.
 - What is the most probable diagnosis?
 - Explain the underlying pathophysiology of the disease.
 - How can she be treated?
- Q4. A) Draw and label normal ECG with normal waves, intervals and segments.

B) What is the cause of each ECG wave?

- Q5. A 65 year old man had a car accident. There is loss of 500ml of blood. His blood pressure recorded after 15 minutes was 100/70, pulse rate was 90 times/minute.
 - What is the role of baroreceptors in this case to regulate the blood pressure? How kidneys will play their role to regulate the blood pressure?
- Q6. A) Define cardiac output, stroke volume, end diastolic volume and end systolic volume.
 - B) Discuss in detail the regulation of cardiac output.
- () Draw and describe origin, conduction of cardiac impulse along with time scale.
 - B) Explain ECG changes in different types of heart blocks.
- Draw and label Oxy Hb dissociation curve. Also show the point for P50.
 - B) Enlist the factors shifting the curve to right.
- Out of the compliance. Explain it with help of compliance graph. List the factors on which it depends.
 - B) A deep sea diver ascends rapidly to sea level, experiences severe headache, chest pain, difficulty in breathing and muscle and joint pains.
 - Diagnose the disease. i. .
 - Explain physiological reason of these symptoms li.
 - How can this person be treated?
- 010. A) Describe the mechanism of heat loss by sweating and the impact of acclimatization on it.
 - B) A 55 year old laborer was brought unconscious to the emergency department. He was reported that he had been working in the sun continuously for the past several hours.
 - From what condition he suffered from?
 - ii. What are the reflex thermoregulatory mechanisms in the body taking place in him for heat loss

W. care

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All SEQ's are to be attempted on the paper and estatoed to du-

Write year Boll No only on the performed portion of the Stir Iway. Do not write your name or disclose your identity in anyway

Are games or everwitting in answering the objective part will has be accepted out so marks

*Q8. A) Draw and label Oxy - Hb dissociation curve. Also show the point for P50.

(19. 1) What is temperature regulation? Give the possible role of hypothalamus.

II) Describe the mechanism of heat loss by sweating and the impact of acclimatization on it.

B) Enlist the factors shifting the curve to right,

15T PROFESSIONAL MBBS (PART + D

ANNUAL EXAMINATION 2014

PHYSIOLOGY

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ATTEMPT ALL OUTSTIONS: ALL OUTSTIONS CARRY FOUAL MARKS

Instructions every contract after 2.10 to 0.0 to 1.0 to 1

AT TEST T ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL STATORS.	
(61. A) What do you mean by gene expression?	(1.5)
B) Explain the chemical steps of translation,	(3.5)
	030
102. A) List all means of transport across the cell membrane.	(2)
B) Compare simple diffusion and facilitated diffusion.	(3)
(Q3)A) Describe the stages of Erythropoises with the help of diagram.	(2)
(ft) A young man received a cut during shaving which started bleeding but after few minutes the bleeding	
stopped spontaneously.	and which
i. Name the mechanism involved in the spontaneous arrest of bleeding in this man, in Fig. 11	(0.5)
ii. Give the steps of this mechanism. 1/17/11/11	(1.5)
Which mechanism of blood clotting is involved in this case? WATER C	(1)
A) Draw a perce fiber action potential, label all phases, and explain also the events occurring in different	
innic changels.	(3)
(i) Define the following:	
/ i Chronetic	(1)
ii. Rigor Mortice	(1)
(5. A) Draw and label normal ECG with normal waves, intervals and segments.	(3)
B) What is the cause of each ECG wave?	(2)
× -	(2)
16.07 List the changes in circulatory system during exercise?	34.2
During the medical eneckup of a healthy man of the years,	(3)
Give their features and mechanism of production.	0000
JQ7. A) Define cardiac output and cardiac index.	(2)
B) Discuss in detail the regulation of cardiac output.	(3)
. 7	

(3) (2)

(2)

(3)

1ST YEAR MBBS, 2014-15 (PHYSIOLOGY)

INSTRUCTIONS

I-All subjective part is to be submitted within 40mins, no extra time will be given 2-Neat handwriting, use of margins will increase the outlook /presentation of your paper.

UNIT TEST: HEART PHYSIOLOGY

SUBJECTIVE PART

ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS. TOTAL MARKS 30 Time = 40mins

DATE: 11-05-15

iv) Einthoven's law

Quort A) Enumerate the properties of cardiac muscles L.C.G. B) Draw the action potential of ventricular muscle. Label all phases & i	(2) onic channels
functioning for each phase. I to to	(3)
Qno.2.A) Draw and label Pace maker(S-A nodal) Action Potential. 4-B) Briefly describe the causes of pre-potential? Explain the effect of symparasympathetic nervous stimulation on SA nodal action potential.?	(3) npathetic and (2)
Qno.3 A) Classify arrhythmia? Write down the major causes of arrhythmias? 1 B) Explain ECG changes in heart block	157 (3.5)
Qno. A) Define cardiac cycle. List all phases of cardiac cycle. F27.24 B) Explain with help of diagram the pressure changes in left ventricle dur cycle. Ca 105	(2)
Ong SA) Draw and label normal ECG with normal waves, intervals and segment B) What is the cause of each ECG wave F3/1	
Qno.64) Enumerate the heart sounds audible with stethoscope in the normal ac- Differentiate between the First heart sound and second heart sound?	lult person? (1.5)
B) Write short notes on i) Stoke Adam Syndrome	/ (1) (D)
if) Ejection fraction lii) Causes of bradycardia	(1) (0.5)

LELE WELLICAL COLLEGE LAS

First YEAR MRBS 2014-15 (Physiology-Subjective)

4-All subsective part is to be submitted within 2 hours 10 minutes, no estra time will be given 2. Near handwriting, use of margine will propose the souliest operatoration of your paper

OLAL MARKS = 50

GRAND TEST (2015) SEQ PAPER

ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS. DATED: 24-28-15

-		
Listell	means of transport across the cell membrane.	(2
	s Secondary active transport? Explain its different types with examples.	(3
AT L'fan n	net a road accident, was taken to a hospital where on blood grouping, he was found to be	
Lis cas	e. By mistake he was transfused with A- Positive blood. Give the reactions you will expect in	13
Briefly	discuss the regulation of rate of Erythropoiesis in humans.	12
	be neuromuscular junction and transmission with the help of a diagram.	(3
HIT A YOUR	ng 30 year old woman with a drooped left eyelid complains of double vision, difficulty in	
	sing and severe muscle fatigue on mild exertion. Her family history is found to be positive for	
such di	sease.	
1.	What is the most probable diagnosis? My Ulama grand	(1
1	Explain the underlying pathophysiology , file disease.	(0
111	How can she be treated? ne OJ 19 mine	1000
	and label normal ECG with normal wayes, intervals and segments.	(3
	s the cause of each ECG wave?	1.
A 65 year	old man had a car accident. There is loss of 5% and of blood. His blood pressure recorded after	
15 minute	es was 100/70, pulse rate was 90 times/minute.	
i.	What is the role of baroreceptors in this case to regulate the blood pressure?	(2
, ii.	How kidneys will play their role to regulate the blood pressure? 56 F	
A) Define	cardiac output, stroke volume, end diastolic volume and end systolic volume. — 2.9	(
RODiscus.	s in detail the regulation of cardiac output.	1
A) Draw:	and describe origin, conduction of cardiac impulse along with time scale. 178 (1	(
	n ECG changes in different types of heart blocks.	- 3
Draw:	and label Oxy - Hb dissociation curve. Also show the point for P50. 407	
	the factors shifting the curve to right.	
Define	compliance. Explain it with help of compliance graph. List the factors on which it depends.	
UA deep	sea diver ascends rapidly to sea level, experiences severe neadache, chest pain, difficulty in	
breathi	ng and muscle and joint pains.	
1	Diagnose the disease. LAUIN	- 6
ii.	Explain physiological reason of these symptoms	- 8
, iii.	Explain physiological reason of these symptoms. Explain physiological reason of these symptoms. How can this person be treated? Physical Davice Drigger, Deligning the control of the symptoms.	***
Enumer		
Draw an	id briefly explain defecation reflex?	1
	circlea GULPH :- IL amount	20
	od briefly explain defection reflex? - Pu amount of blos - our by the mentalist in given peri	07
Jun P	I IN THE MEASURE I	
1		Sale Ca
(110		
	1	

Time = 2 hours 10 min

DATED: 24-69-2018

AZRA NAHEED MEDICAL COLLEGE LAHORE

PHYSIOLOGY DEPARTMENT 1" Year MBBS 2017-18

SEND UP EXAM

SEQs (SHORT EASSY TYPE QUESTIONS) ATTEMPT ALL QUESTIONS, ALL QUESTIONS CARRY EQUAL MARKS.

MARKS= 50

TIME - 2 hrs (1.5+1.5+2) (61. A) Enlist the means of transport across the membrane? B) Differentiate between Simple and facilitated diffusion? At least three points C) Define active transport. Give its types and explain primary active transport with the help of examples. (Q)-A) Define inflammation? Explain in detail the responses of different WBCs during inflammation? B) Enumerate the components of "monoryte macrophage system"? What does the macrophages in the liver sinusoids called? Which type of immunity is provided by this system? (3+2) (Q3) X) Enlist the transfusion reaction in case of mismatch blood transfusion? B) A 27 year old healthy woman who's blond type is B-ve, delivered her second child with a blood group B+ve. The father's blood type is also B+ve. What will you expect to find in the child? (Q4 X) Classify nerve fibers according to their conduction velocity? 12+31 B) Draw nerve fiber action potential, label all the phases and describe the innic events involved in these phases. (55) Explain the mechanism of muscle contraction in detail with emphasis on the molecular mechanism of muscle contraction? Q6-A) Draw and label defecution reflex? What will happen to the defecution reflex if the spinul complete section occurs above \$2 level of spinal cord B) A 30-year-old male came to the outdoor with history of moderate degree of pain in epigastrium, especially just after taking meal. The pain become intense with spicy & hot food & is relieved with taking chilled milk. What is the probable diagnosis? 1. What is the treatment for this condition? ii. (A) Draw & label normal ECG. Discuss the physiological and clinical significance of PR interval. (3+2) (ii) 40 year- old male patient's ECG shows constant prolongation of PR interval from normal 0.16 sec to 0.24 with the exappearance of QRS complex. What is the probable diagnosis on the basis of these ECG findings? What is the puthophysiology of this condition. Q8. A) Discuss the short term regulation of blond pressure & explain the baroreceptor reflex with the help of diagram B) A 50 year old waman undergoing a surgery experiences a rapid drop in blood pressure (50/30mmHg) after (2.5+1+1+0.5) induction of spinal anesthesia. Her ECG shows normal sinus rhythm. What is the probable diagnosis? i. What is the reason for this drop in blood pressure? ii. What will be the treatment for this condition? iii. O9- A) Define heart failure. What are the dynamics of compressited heart failure? B) Briefly describe the mechanism of regulation of local blood flow? (2.5+2.5) (2+1.5+1.5) Q10.A) Draw O2-Hb dissociation curve. B) Explain in detail the effect of exercise on O2-Hb dissociation curve? C) Define Psa & explain the effect of exercise on Psas 3 - Hb wurve will shift to