

Date:16/2/2017
Examination For Diploma Anesthesia
Term: Final
Course title: Physiology
Time Allowed: Three Hours

Tanta University
Faculty Of Medicine
Department Of Physiology
Course Code: ANAES 7001
Total Assessment Marks: 30

All questions are to be answered:

- 1-Discuss hemorrhage and shock and body commendatory mechanisms against it. (10marks)
2-Discuss lung surfactant and factors affecting it. (10 marks)

3 -Choose the most probable answer: (10 marks)

1-All of the following increase the cardiac output Except:

- a)Increased end diastolic volume
- b)Increased venous return
- c)Moderate increase in the heart rate
- d)Acidosis

3- Acidosis is present in the following conditions:

- a) Excessive ingestion of alkaline drinks
- b)Hyerventilation
- c) Diabetes mellitus
- d)Non of the above

5-The dead space has the following functions Except:

- a)Is functioning as an air conditioner
- b)Its volume is about 150 ml
- c)Parasympathetic stimulation increase it
- d)It has a defensive function in the respiratory system

7-The volume of gas in the lung after forced expiration is:

- a)Residual volume
- b)Expiratory reserve volume
- c)Functional residual capacity
- d)Inspiratory reserve volume

9-The importance of vagal tone on the heart is:

- a)To increase the arterial blood pressure
- b)To increase the intestinal secretion
- c)To increase the oxygen consumption
- d)To decrease the cardiac activity

11-The following hormones elevate the arterial blood pressure Except:

- a)Vasopressin(ADH)
- b)Angiotensin II
- c)Aldosterone
- d)Histamine

2-Aniotensin II :

- a)is formed by the action of an enzyme on angiotensin III
- b)Is released from juxtaglomerular apparatus of the kidney
- c)Acts by stimulation of the vasomotor center
- d)Is formed due to stimulation of rennin release in the circulation

4- Factors that shift oxygen dissociation curve to the right:

- a)Increase 2,3 DPG
- b)Increased temperature
- c)Acidosis
- d)All of the above

6-The ratio of cardiac work to the total energy expenditure is:

- a)The cardiac mechanical efficiency
- b)The cardiac index
- c)Constant during muscular exercise
- d)Not affected by the coronary blood flow

8-Peripheral chemoreceptors are stimulated mainly by:

- a)Low PO₂
- b)Low PCO₂
- c)Increase hydrogen ion concentration
- d)Alkalosis

10-In the arterial blood:

- a)The hematocrite value is higher than the venous blood
- b)Carbamino compounds are more than The venous blood
- c)PO₂ equals 100mmHg
- d)PCO₂ equals 46mmHg

12-The main buffer systems in the blood are:

- a)Carbonic acid /bicarbonates
- b)HB buffer
- c)plasma proteins
- d)All of the above

13-Surfactant deficiency occur in the following conditions Except:

- a) Long term inhalation of 100% oxygen
- b) Hyaline membrane disease of premature infants
- c) Hypocorticism
- d) Hyperthyroidism

15-Heparin has the following effects Except:

- a) Lipemia clearing effect
- b) Combines with antithrombin III and increase its action
- c) Can be given orally and by injection
- d) Acts both in vivo and vitro

17-The conversion of fibrinogen to fibrin is promoted by:

- a) Factor X
- b) Thrombin
- c) Prothrombin
- d) Platelets

19- The hemorrhagic tendency in liver diseases is due to deficiency of:

- a) Platelets
- b) Bilirubin
- c) Bile pigments
- d) Vitamin K

14-Hemophilia is due to:

- a) Deficiency of factor VIII
- b) Deficiency of platelets
- c) Prolongation of bleeding time
- d) Vitamin K deficiency

16-The heart rate is increased due to:

- a) Increase of the venous return
- b) Decrease arterial blood pressure
- c) O₂ lack
- d) All of the above

18- Pitting edema is resulting from all the following diseases Except:

- a) Renal diseases
- b) Congestive heart failure
- c) Liver diseases and hypoproteinemia
- d) Elephantiasis

20-All the following mechanisms occur in hemostasis Except:

- a) Increase of heparin secretion
- b) Vasoconstriction of blood vessels
- c) Clot formation
- d) Platelets aggregation

No	A	B	C	D	No	A	B	C	D
1					11				
2					12				
3					13				
4					14				
5					15				
6					16				
7					17				
8					18				
9					19				
10					20				

Answer of MCQ at the table

ملحوظة:

26/2/2017 الامتحان الشفهي

بقسم الفسيولوجي الثامنة صباحا

اجابة الأسئلة الاختيارية بالجدول و

يدرس بمراسة الإجابة