Anatomy & Physiology Review Chapter 12

Name___________________________________

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

1) A thrombus in the brain could never cause a stroke. 1) _____

2) Necrosis means tissue death. 2) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

3) ______ is an inherited condition in which red blood cells and hemoglobin molecules do not form properly:
   A) Leukemia  B) Sickle cell anemia  C) Leukocytosis  D) Anemia

4) Cardiac tamponade may result from _______.
   A) Heart failure  B) Endocarditis  C) Pericarditis  D) Hypertension

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following.

5) Valvular insufficiency A) Universal donor 5) ______

6) Myocardial infarction B) More than normal WBCs 6) ______

7) Type O blood C) A condition usually of the left pump of the heart but can be right side as well 7) ______

8) Varicose veins D) Blood squirts backwards into the heart chamber 8) ______

9) Heart failure E) Heart attack in which blood flow to heart muscle was blocked and caused some tissue death 9) ______

10) Leukocytosis F) Found normally in legs and rectum 10) ______

11) Heart block G) Electrical impulse cannot go through a scarred area of heart muscle 11) ______
12) Leukopenia  A) Fewer than normal WBCs

13) Leukemia  B) More than normal number of WBCs usually due to blood cancer

14) Anemia  C) Less than normal number of RBCs or hemoglobin

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

15) What is the vessel that brings blood to the heart from the trunk and pelvic region?  
   A) Inferior vena cava  B) Superior aorta  C) Superior vena cava  D) Inferior artery

16) Congestive heart failure is now called ________.  
   A) Heart failure  B) Endocarditis  C) Hypertension  D) Pericarditis

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

17) Type AB blood has both A and B antigens and no antibodies.  

18) A heart rate of 110 beats per minute would indicate tachycardia.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

19) Cardiac tamponade can be caused by ________.  
   A) Endocarditis  B) Pericarditis  C) Myocarditis  D) Carditis

20) The condition in which the patient experiences chest pain with exertion is ________.  
   A) Coronary artery disease  B) Angina pectoris  C) Myocardial infarction  D) Congestive heart failure

21) This clotting disorder is an inherited disorder.  
   A) Hemophilia  B) Embolism  C) Thrombocytopenia  D) Thrombosis

22) Blood vessels that carry blood away from the heart are called ________.  
   A) Capillaries  B) Veins  C) Bronchioles  D) Arteries
23) The condition in which a reduction in the quantity of either red blood cells or hemoglobin exists is ________.
   A) Leukemia     B) Thrombocytopenia
   C) Polycythemia  D) Anemia

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

24) An infarcted area of the heart can be repaired.  24)

25) Shock is usually caused by a drop in blood pressure.  25)

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

26) A heartbeat that is below 60 beats per minute is called ________.
   A) Sinus dysrhythmia     B) Bradycardia
   C) Fibrillation           D) Tachycardia

27) ________ is a condition in which chronic low levels of oxygen (due to lung disease or living in high
    altitudes) cause the body to produce more than normal amounts of erythrocytes to transport more
    efficiently the smaller amounts of available oxygen.
   A) Primary polycythemia   B) Secondary erythrocytopenia
   C) Secondary polycythemia  D) Primary erythrocytopenia

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

28) Pain in the chest or chest pain is known as angina pectoris.  28)

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

29) Another name for "hardening of the arteries" is ________.
   A) Atherosclerosis       B) Embolism
   C) Myocardial infarction  D) Angina pectoris

30) The blood type considered the universal donor is type ________.
   A) A                   B) O                   C) B                   D) AB

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

31) Angina causes some muscle tissue to die (necrosis).  31)
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

32) The group of pacemaker cells near the entrance of the superior vena cava form the ________.
   A) Bundle of His  
   B) Myocardium  
   C) Sinoatrial node  
   D) Atrioventricular node

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

33) Vasodilation makes the lumen smaller.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

34) A substance that decreases the body's ability to clot is ________.
   A) Vitamin K  
   B) Aspirin  
   C) Enzyme  
   D) Vitamin A

35) Some abnormal heartbeats can be very rapid (300 beats per minute) and if they are coordinated they are called ________.
   A) Flutter  
   B) Fibrillation  
   C) Asystole  
   D) Sinus rhythm

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

36) A floating embolus is a thrombus.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

37) This is a condition where an artery has become abnormally widened because of a localized weakness in the arterial wall.
   A) An aneurysm  
   B) Gangrene  
   C) Phlebitis  
   D) Ischemia

38) What is the most common blood type among Americans?
   A) O  
   B) AB  
   C) B  
   D) A

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

39) A clot in a coronary artery can cause a myocardial infarction.

40) Right- sided heart failure is due to the left side of the heart not functioning properly.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

41) A person with type A blood ________.
   A) Has anti- A antibodies  
   B) Has anti- B antibodies  
   C) Has A antigens  
   D) Both B and C above
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

42) Atherosclerosis is caused by plaque.  

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

43) Which of the following is not a cause of thrombocytopenia?  
A) Liver dysfunction  
B) Proper spleen function  
C) Bone marrow cancer  
D) Vitamin K deficiency

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

44) Plasma is a yellow fluid.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

45) What is another name for the left atrioventricular valve?  
A) Bicuspid valve  
B) Atrial valve  
C) Semilunar valve  
D) Tricuspid valve

46) Which cranial nerve releases a neurotransmitter that can decrease the pulse and force of contraction?  
A) Abducens  
B) Hypoglossal  
C) Trochlear  
D) Vagus

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

47) Monocytes are erythrocytes.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

48) If the innermost wall of a vessel is damaged, the _______ begin the repair by attaching to the damaged site.  
A) Platelets  
B) Fibrinogen  
C) Thrombin  
D) Fibrin

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

49) The ventricles are the receiving chambers of the heart.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

50) This is a condition usually found in the legs where blood pools in the veins because the veins have become dilated and distorted.  
A) Varicose veins  
B) An aneurysm  
C) Gangrene  
D) Phlebitis
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

51) In the venules, the exchange of gases takes place. 51) ______

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

52) Signs and symptoms of right-sided heart failure include all of the following except _______. 52) ______
   A) Splenomegaly  B) Jugular vein distention
   C) Edema or swelling of hands and feet  D) Pulmonary edema

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

53) Type A blood is known as the universal donor. 53) ______

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

54) _______ is caused by bone marrow cancer stimulating an over-production of erythrocytes. 54) _______
   A) Primary erythrocytopenia  B) Secondary erythrocytopenia
   C) Primary polycythemia  D) Secondary polycythemia

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

55) It is called systole when the heart contracts. 55) ______

56) A person who has AB blood can accept blood from any blood type. 56) ______

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

57) _______ is usually due to bone marrow cancer, and is a condition in which a higher than normal number of white blood cells are produced. 57) _______
   A) Leukocytosis  B) Anemia
   C) Sickle cell anemia  D) Leukemia

58) What clotting protein, produced by the liver, begins the clotting process? 58) _______
   A) Prothrombin  B) Fibrin  C) Fibrinogen  D) Thrombin

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

59) The vagus nerve increases heart rate. 59) ______

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

60) Capillary beds are fed by the _______. 60) _______
   A) Venules  B) Arterioles  C) Vena cava  D) Platelets
61) The term for the stoppage of blood flow is ________.
   A) Hemostasis  B) Hemosclerosis  C) Homeostasis  D) Hemothrombus

62) Which section of the heart receives blood from the right coronary artery?
   A) Left ventricle  B) Left atrium  C) Right ventricle  D) Right aorta

63) This drug commonly reduces or eliminates angina pectoris due to its ability to increase blood flow to the cardiac muscles by dilating coronary blood vessels.
   A) Oxygen  B) Lasix  C) Epinephrine  D) Nitroglycerin

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

64) Capillaries empty into arterioles.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

65) Which WBC is effective in defending the body against parasites?
   A) Monocyte  B) Neutrophil  C) Basophil  D) Eosinophil

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

66) Type AB is the universal donor.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

67) Leukemia is usually due to bone marrow cancer, and creates a higher number of ________ than normal.
   A) Thrombocytes  B) WBCs  C) RBCs  D) Platelets

68) Which cells are involved in the production of antibodies?
   A) Lymphocytes  B) Erythrocytes  C) Monocytes  D) Platelets

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

69) Leukopenia is a condition in which there is a lower than normal number of white blood cells.

70) The heart is a four-pump system.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

71) The ________ nervous system signals blood vessels to constrict or dilate.
   A) Sympathetic  B) Parasympathetic  C) Peripheral  D) Central
The procedure where a catheter with a balloon is threaded into a coronary artery and expanded to compress the plaque and widen the lumen is called ________.

A) Angioplasty  B) Magnetic resonance imaging (MRI)
C) Coronary artery bypass  D) None of the above

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

73) A symptom of myocardial infarction could be pain in the jaw or neck.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

74) Peripheral vascular disease (PVD) is caused by ________.

A) Hypotension  B) Atherosclerosis  C) Angina  D) Hypertension

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

75) The process in which RBCs ingest invaders is called phagocytosis.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

76) Abnormal heart rhythms are called ________.

A) Arrhythmias  B) Bradycardia  C) Tachycardia  D) Sinus rhythm

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

77) Arteries carry blood away from the heart.

78) The average adult human has 4-6 liters of blood.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

79) This is the approximate number of red blood cells in one cubic millimeter of blood.

A) 5 million  B) 3 million  C) 7 million  D) 1 million

80) What color will blood exhibit if it has a high oxygen content?

A) Colorless  B) Red  C) Blue  D) Purple

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

81) Both the superior and inferior vena cava enter the left atrium of the heart.

82) Clotting usually begins approximately 15 seconds after injury.
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

83) Blood moves through blood vessels in which of the following sequences, starting from the heart?  
A) Arteries, arterioles, venules, capillaries, veins  
B) Arteries, arterioles, capillaries, venules, veins  
C) Arteries, capillaries, veins, arterioles, venules  
D) Arterioles, arteries, capillaries, veins, venules

84) Ischemia of the myocardium causes _______.  
A) Myocardial infarction  
B) Heart failure  
C) Angina  
D) A murmur

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

85) Arteries have thinner walls than veins.
86) The typically accepted normal blood pressure is 120/80.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

87) In terms of their location or movement, an embolus is a _______ clot, and a thrombus is a _______ clot.  
A) Floating/moving, stationary  
B) Stationary, stationary  
C) Stationary, floating/moving  
D) Floating/moving, floating/moving

88) Which of the following are signs and symptoms of left-sided heart failure?  
A) Jugular vein distention  
B) Hepatomegaly  
C) Pulmonary edema  
D) Edema or swelling of hands and feet

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

89) In balloon angioplasty, a balloon catheter is threaded into the affected coronary artery.

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

90) The bicuspid or mitral valve is the valve _______.  
A) Between the right atrium and right ventricle  
B) Between the left atrium and left ventricle  
C) That opens from the right ventricle into the artery  
D) That opens from the left ventricle into the artery
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

91) Decreased blood flow to tissues can cause ischemia.  ___

92) The innermost layer of the blood vessel is the tunica interna.  ___

93) Type O blood is known as the universal recipient.  ___

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

94) The role of hemoglobin in the red blood cell is to _______.  ___
   A) Carry oxygen  B) Carry carbon dioxide  
   C) Carry hormones  D) Both A and B above

95) A problem that can occur in a damaged heart valve is the tendency to form clots in that area.  ___

96) What is the name of the structure that separates the lower chambers of the heart?  ___
   A) Atrial mitral valve  
   B) Interventricular septum  
   C) Ventrical SA node  D) Interarterial septum

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

97) Both sickle cell anemia and hemophilia are inherited diseases.  ___

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

98) The pH value measures the levels of _______.  ___
   A) Electrolytes  B) WBC's and RBC's  
   C) Antigens and antibodies  D) Acidity and alkalinity

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

99) Leukopenia always indicates an infection.  ___

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

100) Which of the following is not a white blood cell?  ___
   A) Neutrophil  B) Thrombocyte  
   C) Lymphocyte  D) All of the above are white blood cells
101) What bacterial organism is responsible for rheumatic fever?
   A) *Staphylococcus*    B) *Klebsiella*    C) *E. coli*    D) *Streptococcus*

102) If the abnormal heartbeats are erratic in nature then they are called ________.
   A) Sinus rhythm    B) Fibrillation    C) Flutter    D) Asystole

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

103) As cardiac output goes up, blood pressure usually goes up.  
   103) _____

104) Blood is composed of plasma and formed elements.  
   104) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

105) _______ also exhibits as a situation in which there is a higher than normal number of white blood cells. In this case, the cause is often an infection that is being fought.
   A) Leukemia    B) Anemia    C) Leukocytosis    D) Sickle cell anemia

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

106) If blood flow is not quickly restored to that region, then necrosis of that heart tissue will occur. This type of damage is permanent.  
   106) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

107) _______ is a blood condition in which there is a less than normal number of red blood cells or there is abnormal or deficient hemoglobin.
   A) Leukemia    B) Anemia    C) Sickle cell anemia    D) Leukocytosis