

Exam

Name \_\_\_\_\_

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

- 1) Which is the normal pacemaker of the heart? 1) \_\_\_\_\_  
A) AV junction                      B) SA node                      C) AV node                      D) ventricle

Answer: B  
Explanation: A)  
                  B)  
                  C)  
                  D)

- 2) The inherent rate of the ventricle is \_\_\_\_\_ bpm. 2) \_\_\_\_\_  
A) 20-40                      B) 60-100                      C) 40-60                      D) 100-120

Answer: A  
Explanation: A)  
                  B)  
                  C)  
                  D)

- 3) The built-in rate of each of the three major areas of the conduction system is referred to as the \_\_\_\_\_ rate. 3) \_\_\_\_\_  
A) fast                      B) inherent                      C) escape                      D) heart

Answer: B  
Explanation: A)  
                  B)  
                  C)  
                  D)

- 4) What is the term for the fail-safe mechanism that allows a lower pacemaker to take over when a higher site fails? 4) \_\_\_\_\_  
A) AV conduction                      B) polarization                      C) escape                      D) irritability

Answer: C  
Explanation: A)  
                  B)  
                  C)  
                  D)

- 5) Which of the following is NOT a part of the normal cardiac conduction system? 5) \_\_\_\_\_  
A) AV node                      B) internodal pathways  
C) Purkinje Fibers                      D) coronary sinus

Answer: D  
Explanation: A)  
                  B)  
                  C)  
                  D)

6) Part of the parasympathetic branch of the autonomic nervous system is the \_\_\_\_\_ nerve. 6) \_\_\_\_\_  
A) aortic                      B) vagus                      C) pericardial                      D) coronary

Answer: B  
Explanation: A)  
                  B)  
                  C)  
                  D)

7) Which of the following does NOT happen when the sympathetic branch is stimulated? 7) \_\_\_\_\_  
A) Ventricular conduction slows down.                      B) The heart becomes more irritable.  
C) Impulses go faster through the AV node.                      D) Heart rate increases.

Answer: A  
Explanation: A)  
                  B)  
                  C)  
                  D)

8) The inherent rate of the AV junction is \_\_\_\_\_ bpm. 8) \_\_\_\_\_  
A) 20-40                      B) 60-100                      C) 40-60                      D) 100-120

Answer: C  
Explanation: A)  
                  B)  
                  C)  
                  D)

9) When stimulated, the \_\_\_\_\_ branch of the nervous system will increase heart rate, AV conduction, and irritability. 9) \_\_\_\_\_  
A) inherent                      B) pacemaker  
C) parasympathetic                      D) sympathetic

Answer: D  
Explanation: A)  
                  B)  
                  C)  
                  D)

10) What term is used to refer to the process of electrical discharge and the flow of electrical activity? 10) \_\_\_\_\_  
A) polarization                      B) repolarization                      C) depolarization                      D) polarized

Answer: C  
Explanation: A)  
                  B)  
                  C)  
                  D)

11) After leaving the area of the AV node, impulses go through the \_\_\_\_\_ to reach the right and left bundle branches. 11) \_\_\_\_\_  
A) Bundle of His                      B) Purkinje fibers                      C) AV junction                      D) SA node

Answer: A  
Explanation: A)  
                  B)  
                  C)  
                  D)

- 12) Which of the following best explains the mechanism called irritability? 12) \_\_\_\_\_
- A) A lower pacemaker site speeds up to take control of the heart.
  - B) The normal pacemaker changes its inherent rate.
  - C) The ventricles repolarize before they are ready.
  - D) The normal pacemaker slows down and gives up control.

Answer: A

Explanation: A)  
B)  
C)  
D)

- 13) If polarizing is considered the ready state, then \_\_\_\_\_ would be considered the recovery state. 13) \_\_\_\_\_
- A) depolarization
  - B) discharge
  - C) repolarization
  - D) polarization

Answer: C

Explanation: A)  
B)  
C)  
D)

- 14) The inherent rate of the SA node is \_\_\_\_\_ bpm. 14) \_\_\_\_\_
- A) 30-60
  - B) 100-120
  - C) 60-100
  - D) 40-60

Answer: C

Explanation: A)  
B)  
C)  
D)

- 15) Which cardiac cells are responsible for initiating and conducting pacemaker impulses? 15) \_\_\_\_\_
- A) mechanical cells
  - B) electrical cells
  - C) atrioventricular cells
  - D) motor cells

Answer: B

Explanation: A)  
B)  
C)  
D)

Answer Key

Testname: C1

- 1) B
- 2) A
- 3) B
- 4) C
- 5) D
- 6) B
- 7) A
- 8) C
- 9) D
- 10) C
- 11) A
- 12) A
- 13) C
- 14) C
- 15) B