

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?

A) AV junction

B) SA node

C) AV node

D) ventricle

1) \_\_\_\_\_

Answer: B

Explanation: A)  
B)  
C)  
D)

2) The inherent rate of the ventricle is \_\_\_\_\_ bpm.

A) 20-40

B) 60-100

C) 40-60

D) 100-120

2) \_\_\_\_\_

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.

A) fast

B) inherent

C) escape

D) heart

3) \_\_\_\_\_

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?

A) AV conduction

B) polarization

C) escape

D) irritability

4) \_\_\_\_\_

Answer: C

Explanation: A)  
B)  
C)  
D)

5) Which of the following is NOT a part of the normal cardiac conduction system?

A) AV node

B) internodal pathways

C) Purkinje Fibers

D) coronary sinus

5) \_\_\_\_\_

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)

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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