



Physiology
OF THE CARDIOVASCULAR SYSTEM

Coronary Circulation

1. Which of the following statement is true?

- A) *The right coronary artery has a greater flow in 20% of population.*
- B) *The left coronary artery has a greater flow in 50% of population.*
- C) *Flow is equal in 30%.*
- D) *Flow is equal in 50%.*

2. Which of the following is the reason of that “coronary arteries extracts about 70% of O₂”:

- A) *Heart muscle has many mitochondria*
- B) *Vessels of coronary arteries is large in diameter*
- C) *The viscosity of blood is very low*
- D) *All of them*

3. Most of the coronary flow occurs during:

- A) *Systole*
- B) *Diastole*
- C) *Systole and diastole*

4. Which of the following can be a factor that reduces coronary blood flow?

- A) *Tachycardia*
- B) *Bradycardia*
- C) *Intravascular compression*
- D) *Filling of the heart chambers*

5. Due to autoregulation the normal coronary perfusion pressure will be :

- A) *Between 120 and 180 mmhg*
- B) *Between 60 and 200 mmhg*
- C) *Between 60 and 90 mmhg*
- D) *Between 100 and 250 mmhg*

6. Which of the following chemical factors is a vasodilator?

- A) *Thromboxane A*
- B) *Vasopressin*
- C) *Catecholamine*
- D) *Nitric Oxide*

7. The most common site of myocardial infarction

- A) *Pericardium*
- B) *Subendocardial*
- C) *Submyocardial*
- D) *Myocardium*

8. If the reduced flow is due to coronary vasospasm, then the drug that can be given:

- A) *Thrombolytic drug*
- B) *Aspirin*
- C) *Calcium-channel blockers*
- D) *Heparin*

Answers:

Q1: C

Q2: A

Q3: B

Q4: A

Q5: B

Q6: D

Q7: B

Q8: C