**Question 1**

Which is NOT true regarding capillary flow?

Select one:

a. Flow varies according to tissue oxygen requirements

b. Viscosity of the blood is effectively double that of large vessels

c. Flow is controlled by pre-capillary sphincter tone

d. Flow is not laminar

Answer B. Ganong 23rd Edition pg 540

**Question 2**

Which values are correct as a percentage of total blood volume?

Select one:

a. 40 % is in the pulmonary circulation

b. None of the above are correct

c. 20 % is in the systemic arterioles and capillaries

d. 13 % is in the systemic arteries

Answer B. Ganong 23rd Edition pg 537 table 32-9

**Question 3**

Regarding the physical characteristics of the circulation?

Select one:

a. Arterioles have a strong muscular wall, but can close completely

b. Reynolds number represents a measure of laminar flow

c. The aorta has a greater total cross sectional area than the venae cavae

d. Velocity is directly proportional to the cross sectional area of the blood vessel

Answer A. Ganong 23rd Edition pg 540 Reynolds number is "probability of turbulence"

**Question 4**

With respect to blood flow?

Select one:

a. During laminar flow, blood moves at greater velocity adjacent to the vessel wall

b. Turbulent flow can occur in long straight vessels

c. During turbulent flow there is less resistance to flow

d. Turbulent flow does not normally occur in the aorta

Answer B. Ganong 23rd Edition pg 540

**Question 5**

Lymph flow is?

Select one:

a. Decreased with elevated capillary pressure

b. An average 500 ml/hr into the circulation

c. Proportional to interstitial fluid pressure

d. Decreased with contraction of muscles

Answer C. Ganong 23rd Edition pg 551

**Question 6**

The interstitial pressure at the capillary wall is?

Select one:

a. 25 mmHg

b. 37 mmHg

c. 17 mmHg

d. 1 mmHg

Answer D. Ganong 23rd Edition pg 548 fig 32-33

**Question 7**

Arterial pulse pressure is?

Select one:

a. Increased in severe chronic anaemia

b. Not affected by the character of ejection from the heart in systole

c. Increased with a patent ductus arteriosus

d. Proportional to stroke volume x arterial tree compliance

Answer C. Ganong 23rd Edition pg 544

**Question 8**

Blood pressure?

Select one:

a. Drops most significantly at capillary level

b. Is approaching 0 mmHg at the right atrium

c. Fluctuates in the aorta between 180 and 20 mmHg

d. Is half in the pulmonary arteries of that in the aorta

Answer B. Ganong 23rd Edition pg 545 table 32-3

**Question 9**

Isolated increased blood pressure causes?

Select one:

a. No change in tissue blood flow

b. Greater than proportionate increases in tissue blood flow

c. Less than proportionate increases in tissue blood flow

d. Proportionate increases in tissue blood flow

Answer B. Ganong 23rd Edition pg 542 "blood flow is so effectively regulated by small changes in the calibre of the arterioles"

**Question 10**

Which has the highest total cross sectional area?

Select one:

a. Veins

b. Arterioles

c. Vena Cava

d. Capillaries

Answer D. Ganong 23rd Edition pg 537 table 32-9