**Question 1**

Regarding coronary blood flow:

Select one:

a. Sympathetic vasoconstrictory fibres predominate in epicardial vessels b. Less then 50 % of oxygen is removed during passage when in the resting state

c. Systolic blood flow in subendocardial arteries is greater than in the epicardial

d. The coronary circulation is well supplied by parasympathetic vasodilatory fibres

Answer A. Ganong 23rd Edition pg 580 “the direct effect of noradrenergic stimulation is constriction of the coronary vessels”

**Question 2**

In head injury with ↑ ICP, controlled ventilation can promote cerebral vasoconstriction. This is the result of:

Select one:

a. Increasing the pH

b. Increasing the paO2

c. Decreasing the paCO2

d. Increasing the paCO2

Answer C.

**Question 3**

Which is true of coronary blood flow?

Select one:

a. All of the above are correct

b. The AV node and posterior septum is supplied by the right coronary artery

c. The right bundle and the anterior part of the left ventricle are supplied by the LAD

d. The infero-lateral walls of the left ventricle are supplied by the circumflex artery

Answer A.

**Question 4**

The pressure differential between the heart and the aorta is least in the:

Select one:

a. Left ventricle during systole

b. Right ventricle during diastole

c. Right ventricle during systole

d. Left ventricle during diastole

Answer A. Ganong 23rd Edition pg 579 table 34-4

**Question 5**

Which organ has the greatest blood flow per 100 g of tissue?

Select one:

a. Kidneys

b. Brain

c. Heart muscle

d. Liver

Answer A. Ganong 23rd Edition pg 570 table 34-1

**Question 6**

Which organ has the most permeable capillaries?

Select one:

a. Posterior pituitary gland

b. Liver

c. Kidneys

d. Brain

Answer B. Ganong 23rd Edition pg 570 table 34-1

**Question 7**

Which substance does NOT have a higher concentration in CSF than in plasma?

Select one:

a. PCO2

b. Chloride

c. Creatinine

d. Glucose

Answer D. Ganong 23rd Edition pg 571 table 34-2

**Question 8**

Which is NOT true of the formation and absorption of CSF?

Select one:

a. The rate of production is about 900 ml / day

b. It is absorbed through the arachnoid villi into veins

c. At a pressure of 112 mm CSF, filtration and absorption are equal

d. 50 – 70 % is formed in the choroid plexuses

Answer A. Ganong 23rd Edition pg 571 “550ml per day”

**Question 9**

Which will produce a transient decrease in cerebral blood flow?

Select one:

a. A rise in mean venous pressure at brain level

b. Dilation of cerebral arterioles

c. An increase in cardiac output

d. A decrease in intracranial pressure

Answer A. Ganong 23rd Edition pg 575, figure 34-8

**Question 10**

Which is correct regarding coronary circulation?

Select one:

a. Anastomotic connections are plentiful between the coronary arteries

b. Coronary blood flow is minimal during diastole

c. The coronary sinus returns blood to the left atrium

d. The right ventricle is supplied predominantly by the right coronary artery

Answer D.