

*Jordan University of Science & Technology*

*Department of Physiology*

*Second Exam M132*

*2010/2011*

**1) Which of the following is not part of conductive system?**

\*Atrial fibers

**2) Which of the following has the highest rate of excitation?**

\* SA node

**3) Left ventricular pressure is higher than right ventricular pressure because:**

\* Pulmonary resistance is higher than peripheral

**4) Blood flow in the cardiovascular system by pressure gradient, which of the following has the least pressure:**

\* Large veins

**5) Which of the following is identical in arterial and venous system?**

\* Blood flow rate

**6) Which of the following is not part of the dead space?**

\* Alveoli

**7) All of the following are part of the function of respiratory system EXCEPT:**

\* Reduce venous system

**8) Which of the following keeps the lungs inflated?**

\* Surfactant

**9) Which of the followings is not part of function of kidney?**

\* Secrete anti diuretic hormone

**10) The normal glomerular filtration rate in adult person is ..... ml/minute:**

\* 125

**11) Which of the following is not function of plasma protein:**

\* Stimulate formation of WBC

**12) Choose wrong statement:**

\* O<sub>2</sub> and CO<sub>2</sub> present in the blood mainly in dissolved form

**13) Absorption of filtered fluid takes place in all the following EXCEPT:**

\* Bowman's capsule

**14) Hydrolysis is process that help in ..... in GIT:**

\* Digestion

**15) Choose correct answer:**

\* There are three types of sensory receptors present in the wall of digestive tract

**16) Which of the following hormones is regulated directly by hypothalamus?**

\* Prolactin

**17) Which of the following two hormones secreted by adrenal gland:**

\* Aldosterone and cortisol

**18) Which of the following hormones has no effect on bone:**

\* Angiotensin

**19) Which of the following hormone secreted by circadian rhythms in time with dark and light cycle:**

\* Melatonin

**13) Which of the following two hormones give effect by permissiveness?**

\* Thyroid hormone and epinephrine

**14) Which of the following statements regarding the**

**voltage gated Na<sup>+</sup> channels is wrong?**

\* Both inactivation and activation gates are closed above threshold level

**15) Inhibitory postsynaptic potentials (IPSP's):**

\* Are produced by increase permeability to K<sup>+</sup> and/or to Chloride

**16) Saltatory conduction:**

\* Is faster than conduction by local current flow (contiguous conduction)

**17) When voltage-gated K<sup>+</sup> channels open during action potential of a nerve:**

\* The nerve repolarizes

**18) Regarding the role of Ca<sup>++</sup> in skeletal muscle contraction, choose the CORRECT statement:**

\* For muscle contraction to occur Ca<sup>++</sup> bind with troponin C

**19) Select the INCORRECT statement about the action potential:**

\* It's conduction speed is increased by summation

**20) Select the INCORRECT statement about the Na<sup>+</sup> role in resting and action potential :**

\* The permeability of the membrane for Na<sup>+</sup> is decreased 600 times during resting phase (depolarization phase) of action potential

**21) Acetylcholine at neuromuscular junction:**

\* Cause change in endplate potential which is always excitatory

**22) Which of the following chemicals paralyzes skeletal muscles by decreasing acetylcholine release at neuromuscular junction:**

\* Clostridium botulinum toxins

**23) Graded potentials:**

\* Can be summed up in order to reach threshold

**24) Which of the following hormones regulated directly by hypothalamus:**

\* Growth hormone

**25) Which of the following is NOT part of conductive system?**

\* Ventricular fibers

**26) Which of the following has the least velocity of the transmission of the excitation?**

\* AV node

**27) Blood flow in the cardiovascular system by pressure gradient, which of the following has the least pressure:**

\* Right atrium

**28) Which of the following is identical in arterial and venous system?**

\* Blood flow rate

**29) Left ventricular pressure is higher than right ventricular pressure because:**

\* Pulmonary resistance is less than peripheral

**30) Which of the following is not part of the dead space?**

\* Alveoli

**31) Which part of the blood involve in regulation of body temperature:**

\* Plasma water

**32) Choose wrong statement:**

\* On hemoglobin molecule site of combination of O<sub>2</sub> is the same site of CO<sub>2</sub>

**33) Which of the following is NOT character of mucosa in digestive tract?**

\* initiate electrical activity to the adjacent contractile muscle

**34) Choose the correct answer:**

\* Cajal cells are not contractile cells

**35) Which of the following hormones secreted by testes and ovaries:**

\* Inhibin