Physiology Second Exam

HOPE 2010

**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 :**

\* O2 and CO2 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 cortisole

**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 :**

\* Melatonine

**13) Which of the following two hormone give effect by permissiveness :**

\* Thyroid hormone and epinephrine

**14) Which of the following statements regarding the voltage gated Na+ 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+ and/or to Chloride

**16) Saltatory conduction :**

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

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

\* The nerve repolarizes

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

\* For muscle contraction to occur Ca++ 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+ role in resting and action potential :**

\* The permeability of the membrane for Na+ 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 botulinium 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 O2 is the same site of CO2

**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