

- 27) If the SA node is not functioning, an ECG will show _____. 27) D ✓
 A) more P waves than QRS waves
 B) no QRS waves
 C) higher P waves
 D) no P waves with a HR between 40-60 bpm
- 28) Which of the following can act on receptors inside the target cell that directly activate specific genes? 28) A ✓
 A) testosterone
 B) melatonin
 C) growth hormone
 D) calcitonin
- * 29) The second heart sound is heard during which phase of the cardiac cycle? 29) B ✓
 A) isovolumetric contraction
 B) ventricular ejection
 C) ventricular filling
 D) isovolumetric relaxation
- 30) The cells responsible for producing platelets are called _____. 30) B ✓
 A) monoblasts
 B) lymphoid stem cells
 C) megakaryocytes
 D) myeloblasts
- 31) Isovolumetric contraction _____. 31) D ✓
 A) occurs while the atrioventricular (AV) valves are open
 B) occurs only in people with heart valve defects
 C) occurs immediately after the aortic and pulmonary semilunar valves close
 D) refers to the short period during ventricular systole when the ventricles are completely closed chambers
- 32) Sympathetic responses generally are widespread because _____. 32) A ✓
 A) NE and epinephrine are secreted into the blood as part of the sympathetic response
 B) inactivation of ACh is fairly slow
 ✓ C) preganglionic fibers are short
 D) preganglionic fibers are long
- 33) Compared to skeletal muscle, cardiac muscle _____. 33) A ✓
 A) has gap junctions that allow it to act as a functional syncytium
 B) has more nuclei per cell
 C) lacks striations
 D) cells are larger than skeletal muscle cells
- 34) Loss of fibrinogen within the plasma would most likely cause which of the following? 34) A ✓
 A) loss of blood clotting
 B) pallor (pale skin)
 C) edema (swelling)
 D) fever with pain
- 35) People that have a single allele (gene copy) for sickle cell anemia are typically not sick from the disease and are said to be carriers of sickle cell trait. These people will more often live in the malaria belt of sub-Saharan Africa. The most likely explanation for this is _____. 35) A ✓
 A) people with sickle cell trait have a better chance of surviving malaria
 B) malaria is a cause of sickle cell trait
 C) sickle cell trait is passed on to the biting mosquitoes as malaria
 D) the tropical climate attracts people with sickle cell trait