Question 1. The following statement(s) is/are true:

(a) Ischaemic heart disease was the third leading cause of death in Singapore in 2014.  
True  False
☐  ☐

(b) The treadmill electrocardiogram (ECG) stress test is only used for diagnosis of obstructive coronary artery disease.  
True  False
☐  ☐

(c) An increase in blood pressure and decrease in heart rate is the body’s normal physiological response to exercise.  
True  False
☐  ☐

(d) The target maximal heart rate is dependent on the individual’s age.  
True  False
☐  ☐

Question 2. According to the American Heart Association’s recommendation, the treadmill ECG stress test is an appropriate test for the following patient(s):

(a) A 30-year-old woman with pleuritic chest pain.  
True  False
☐  ☐

(b) A 40-year-old man with angina pectoris.  
True  False
☐  ☐

(c) An asymptomatic 55-year-old woman.  
True  False
☐  ☐

(d) A 62-year-old man with atypical chest pain.  
True  False
☐  ☐

Question 3. The treadmill ECG stress test is contraindicated in:

(a) Severe aortic stenosis.  
True  False
☐  ☐

(b) Severe mitral regurgitation.  
True  False
☐  ☐

(c) Atrial fibrillation with rapid ventricular rate.  
True  False
☐  ☐

(d) Chronic heart failure.  
True  False
☐  ☐

Question 4. The treadmill ECG stress test must be terminated in the following situation(s):

(a) 1-mm ST-depression in the inferior leads.  
True  False
☐  ☐

(b) A drop in systolic blood pressure of more than 10 mmHg despite an increased workload.  
True  False
☐  ☐

(c) The development of complete heart block during the test.  
True  False
☐  ☐

(d) The development of mild chest discomfort during the test.  
True  False
☐  ☐

Question 5. In a subject with normal baseline ECG, the treadmill ECG stress test is considered electrically positive in the following:

(a) ECG showing 0.5-mm up-sloping ST-segment depression at peak heart rate with absence of symptoms.  
True  False
☐  ☐

(b) ECG showing 2-mm ST-segment elevation at 70% of target heart rate.  
True  False
☐  ☐

(c) ECG showing 1-mm up-sloping ST-segment depression at J point at 86% of the target heart rate.  
True  False
☐  ☐

(d) ECG showing 1-mm down-sloping ST-segment depression at 80 ms after the J point at 85% of the target heart rate.  
True  False
☐  ☐