Assignment 8

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2020-04-22, 23:59 IST.

1) Compression bandage
   - Reduces the vein diameter and as a result reduces the valvular function
   - Increases the venous flow rate and helps the ulcers
   - Decreases the venous flow rate and helps the ulcers

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Reduces the vein diameter and as a result reduces the valvular function
   - Increases the venous flow rate and helps the ulcers

2) The correct statement amongst the following for a sub-bandage pressure as per Laplace Law is/are
   - Sub-bandage pressure is directly proportional to bandage tension and number of layers of bandage
   - Sub-bandage pressure is inversely proportional to bandage tension and number of layers of bandage
   - Sub-bandage pressure is directly proportional to circumference of the limb and bandage width
   - Sub-bandage pressure is inversely proportional to circumference of the limb and bandage width

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Sub-bandage pressure is directly proportional to bandage tension and number of layers of bandage
   - Sub-bandage pressure is inversely proportional to circumference of the limb and bandage width

3) The correct statement amongst the following for the compression bandage is/are
   - Compression bandage should exhibit higher compression
   - Compression bandage should exhibit lower compression
   - Compression bandage should exhibit higher stress relaxation
   - Compression bandage should exhibit lower stress relaxation

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Compression bandage should exhibit lower compression
   - Compression bandage should exhibit lower stress relaxation

4) The correct statement amongst the following for compression bandage wrapped over a mannequin limb with fixed number of layers, width, and thickness
   - Compression bandage should exhibit lower compression
   - Compression bandage should exhibit lower stress relaxation
   - Drop as duration of stress increases
   - Drop as duration of stress increases
   - Drop more when tested in static condition than when tested in dynamic condition
   - Drop more when tested in dynamic condition than when tested in static condition

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Drop as duration of stress increases
   - Drop more when tested in static condition than when tested in dynamic condition

5) The compression bandage is tied at 60 strokes/min and 40 strokes/min on a mannequin limbs with different final displacement of 12 cm and 6 cm
   - The pressure retention is higher at lower strokes/min and lower leg displacement
   - The pressure retention is lower at lower strokes/min and lower leg displacement
   - The relaxation of stress is higher at higher strokes/min and higher leg displacement
   - The relaxation of stress is lower at higher strokes/min and higher leg displacement

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - The pressure retention is higher at lower strokes/min and lower leg displacement
   - The relaxation of stress is lower at higher strokes/min and higher leg displacement

6) The correct statement amongst the following in the context of electromagnetic shielding is/are
   - The increase in conductive filler loading in polymer increases the electromagnetic shielding effectiveness
   - The increase in conductive filler loading in polymer decreases the electromagnetic shielding effectiveness
   - Nanofillers loaded polymers give lower electromagnetic shielding effectiveness than microfibrous loaded polymers
   - Nanofillers loaded polymers give higher electromagnetic shielding effectiveness than microfibrous loaded polymers

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - The increase in conductive filler loading in polymer increases the electromagnetic shielding effectiveness
   - Nanofillers loaded polymers give higher electromagnetic shielding effectiveness than microfibrous loaded polymers

7) The correct statement amongst the following in context of electromagnetic shielding is/are
   - Electromagnetic shielding effectiveness increases with increase in number of fabric layers
   - Electromagnetic shielding effectiveness decreases with increase in number of fabric layers
   - Electromagnetic shielding effectiveness increases with increase in thickness of the fabric layers
   - Electromagnetic shielding effectiveness decreases with increase in thickness of the fabric layers

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   - Electromagnetic shielding effectiveness increases with increase in number of fabric layers
   - Electromagnetic shielding effectiveness decreases with increase in thickness of the fabric layers