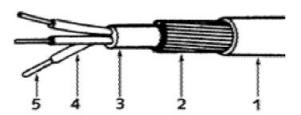
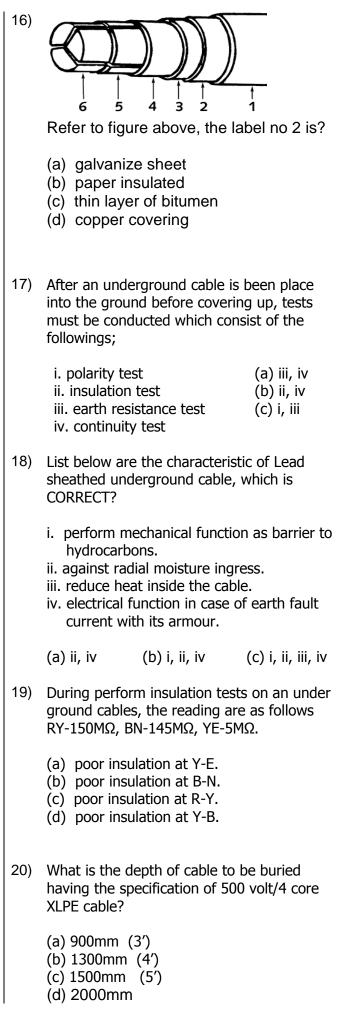
Module 11 : UNDERGROUND CABLE

Name:			Date:
Part A: Multiple choice question (MCQ)			
1)	 What does A.W.A stands for? (a) aluminium wire armour (b) aluminium wire aluminium (c) american wire armour (d) armour wound aluminium 	6)	 Which statement below is TRUE about the characteristic of armour cable? (a) Able to withstand high voltage. (b) Able to prevent current leakage to operator. (c) Able to protect cable from mechanical damage (d) Able to protect cable from electrical fault.
2)	 What is another name for XLPE cable? (a) rubber insulated (b) cross link polythene (c) mineral insulated (d) low smoke fume 	7)	 What is the correct depth buried an armour PVC underground cable operating at 415V system? (a) 3 feet or 900mm (b) 5 meter (c) 7 meter (d) below 10 meter
3) 4)	What is the maximum voltage a XLPE cable can handle? (a) more than 500 kV (b) up to 500 kV (c) 1000 kV or greater (d) 5000 kV or greater An armoured cable can withstand	8) 9)	 What is the acceptable insulation test for underground cable? (a) 50 MΩ (b) 100 MΩ (c) 400 MΩ (d) >1 MΩ What is the duration test for insulation?
	 impact. The best answer fill the blank is. (a) force (b) magnetic (c) electrical (d) mechanical 		 (a) 1 second (b) 10 second (c) 60 second (d) 100 second
5)	 What is PILC means? (a) protective insured lead cable (b) paper in lead cable (c) paper insulated lead covering (d) protective insulation lead cable 	10)	 The followings are the properties of XLPE, except. (a) this cable can handle operating temperature up to 60°Cel. (b) can operate on voltage greater than 1kV (c) this cable can handle operating temperature up to 150°Cel. (d) tough armour protection

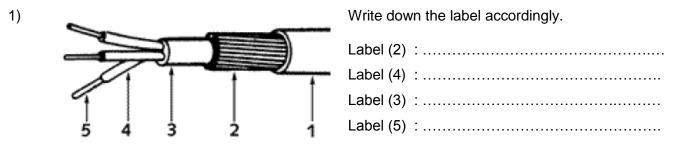
11) Refer to figure below, the label no 2 is armour-galvanised steel wire. What the purpose of this?



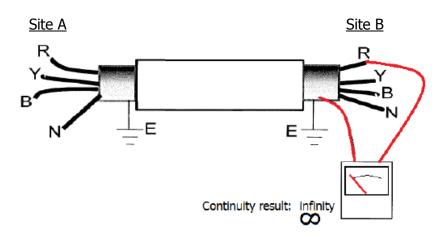
- (a) as circuit protective conductor.
- (b) to allow leakage current on the cable armour.
- (c) to withstand high voltage.
- 12) Which type of test showing that a cable is shorted?
 - (a) insulation test
 - (b) cable phasing test
 - (c) polarity test
 - (d) continuity test
- 13) Which statement below is TRUE about the characteristics of cross link polythylene (XLPE)?
 - i. withstand chemical environment.
 - ii. resistance to melt at higher temperature.
 - iii. able to operate high voltage 2000 volt.
 - iv. withstand operating temperature up to 90 deg. Celsius.
 - (a) ii, iv (b) ii, iii, iv (c) i, ii, iii, iv
- 14) What is the purpose of perform continuity test on underground cable?
 - (a) to check the cable can withstand short circuit fault.
 - (b) to ensure the cable can withstand high voltage.
 - (c) to ensure the cable is not OPEN circuit.
 - (d) to ensure the cable is not cross wired
- 15) Which instrument is used to check cable for any open line?
 - (a) multi-meter voltage measurement
 - (b) multi-meter ohm measurement
 - (c) clamp-meter current measurement
 - (d) volt-meter measurement



Part B: Subjective Question



 Refer to figure below, why the test result showing infinity? (You can add-on to the figure as your answer.)



3) List three types of armour cable.
a)
b)
c)

4) Draw the correct installation method of an underground cable.