Maximum Marks: 70

DIPLOMA – VIEP – ELECTRONICS AND COMMUNICATION ENGINEERING (DECVI)

00769

Time: 2 hours

Term-End Examination

June, 2014

BIEL-037: MAINTENANCE OF ELECTRONIC EQUIPMENT

Note:	Attempt fi	ve	qu	estion	s.	Questic	on	no.	1	is
	compulsory. permitted.	U	se	of	sc	ientific	ca	lcula	tor	is

- 1. (a) Define the terms Mean time to fail and Mean time to repair.
 - (b) What is the importance of Log book, Proforma for recording specifications in maintenance procedure?
 - (c) Discuss the preventive maintenance.
 - (d) Comment on fault establishment in trouble-shooting procedure. $4 \times 3\frac{1}{2} = 14$
- 2. Explain Thermal acceleration and Electrical acceleration. Also state the need and difference between the above two accelerations.
- 3. (a) What are equipment service options? Also discuss the types of contract in detail.
 - (b) What is the role of service manual and reference library in the process of maintenance management?

14

7

7

4.	(a)	Explain the role of visual inspection in trouble-shooting procedure.	7									
	(b)	Discuss the signal tracing and functional analysis.	7									
5.		Discuss different types of testing in detail, for rouble-shooting procedure. 14										
6.	(a)	Discuss the trouble-shooting techniques in detail.	7									
	(b)	What is signal injection and voltage analysis in data manual?	7									
7.		xplain tradional bathtub reliability curve with uitable diagram.										
8.	Wri	te short notes on any four of the following:										
		$4 \times 3 \frac{1}{2} =$	=14									
	(a)	Damp heat acceleration										
	(b)	Work bench										
	(c)	Diagnostic software										
	(d)	Visual inspection										
	(e)	Fault finding aids										