BIEL-037

DIPLOMA – VIEP – ELECTRONICS AND COMMUNICATION ENGINEERING (DECVI)

Term-End Examination

00096

December, 2014

BIEL-037 : MAINTENANCE OF ELECTRONIC EQUIPMENT

Time : 2 hours	Maximum Marks : 70

Note: Attempt any five questions. Question no. 1 is compulsory.

- 1. (a) Define Mean time to repair (MTTR) and Mean time to fail (MTTF).
 - (b) Discuss the importance of voltage analysis in Data manuals.
 - (c) How can electronic equipments be protected from the electromagnetic interference ?
 - (d) What is electrical acceleration in electronic equipments? $4 \times 3\frac{1}{2} = 14$
- 2. Explain the Generalized reliability curve for electronic equipments with neat diagram. What is Damp heat acceleration ? 14
- Discuss Corrective and Qualitative Maintenance for electronic equipments and also highlight the differences between these maintenance methods. 14

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(a)	How is the fault establishment and fault
	correction done in electronic equipments ? 7
(b)	Differentiate between Di-assembly and Re-assembly. 7
(a)	What is the role of diagnostic software and
	fault finding flow check in trouble-shooting? 7
(b)	How is pre-trouble-shooting technique performed ? 7
• (a) Discuss the divergent path, convergent path	
	and feedback path in trouble-shooting
	procedure. 7
(b)	What is the effect of humidity, shocks and
	vibrations in the maintenance of electronic equipment? 7
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7. Explain the role of Data analysis and information tags in the maintenance management. 14	
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Wri	te short notes on any <i>four</i> of the
following : $4 \times 3 \frac{1}{2} = 14$	
(a)	Quality standards
(b)	Functional analysis
(c)	Signal tracing
(d)	Visual check
(e)	Test and Measuring tools
(0)	Test and measuring tools
	 (b) (a) (b) (a) (b) (c) (d)

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