

**DIPLOMA - VIEP - ELECTRONICS AND
COMMUNICATION ENGINEERING (DECVI)**

Term-End Examination

00113

December, 2016

BIEL-037 : MAINTENANCE OF ELECTRONIC EQUIPMENT

Time : 2 hours

Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks. Missing data may be suitably assumed.

1. Define and explain the following terms : $4 \times 3 \frac{1}{2} = 14$
- (a) Mean time to fail
 - (b) Failure Rate
 - (c) Mean time between failure
 - (d) Mean time to repair
2. What are the essential requirements of a good equipment management programme ? Explain them in detail. 14
3. Explain the following terms in context to maintenance review system : 14
- (i) Log Book
 - (ii) Proforma for recording specifications, preventive maintenance and corrective maintenance

4. Differentiate between Di-Assembly and Re-Assembly. Explain the steps involved in fault establishment, fault correction and fault finding aids. $7+7=14$
5. Define the following terms : $4 \times 3 \frac{1}{2} = 14$
- (a) Service, Maintenance and Instruction Manuals
 - (b) Test and Measuring Tools
 - (c) Preliminary Observation
 - (d) Calibration
6. Explain the following trouble-shooting procedures : $4 \times 3 \frac{1}{2} = 14$
- (a) Visual Inspection
 - (b) Presence of Signal and Signal Waveform
 - (c) Component Failure
 - (d) In-circuit Test
7. Write short notes on any *two* of the following : $2 \times 7 = 14$
- (a) Divergent and Convergent Path
 - (b) Trouble-Shooting Technique
 - (c) Fault-Finding Flow Check
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