

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

Term-End Examination

December, 2015

BIEL-037 : MAINTENANCE OF ELECTRONIC EQUIPMENT

Time : 2 hours

Maximum Marks : 70

Note : Attempt any **five** questions. Question no. 1 is **compulsory**. Use of scientific calculator is permitted.

1. (a) Discuss Quality Standards and Quality Assurance in maintenance management.
- (b) What is Corrective and Preventive Maintenance ?
- (c) Define the terms Mean Time to Fail and Mean Time to Repair.
- (d) What is the importance of maintenance and instruction manuals in fundamental trouble-shooting ? $4 \times 3 \frac{1}{2} = 14$

2. (a) Explain Electrical and Thermal acceleration. 7
- (b) Discuss Fault Finding aids in detail. 7

3. (a) Write in detail about preliminary observations. 7
- (b) Discuss planning for new equipment and user training. 7
4. (a) Explain in detail about planning of spare parts inventory. 7
- (b) What are the types of contracts ? Also explain the general contract provision. 7
5. Name the five trouble-shooting methods and explain each method in detail. 14
6. (a) Discuss personal safety while handling electronic equipments. 7
- (b) What do you understand by signal injection, signal tracing and voltage analysis during trouble-shooting of electronic equipments ? 7
7. Write short notes on any *four* of the following : $4 \times 3 \frac{1}{2} = 14$
- (a) Functional Analysis
- (b) Reading of Block Diagram
- (c) Diagnostic Software
- (d) Fault Finding Flow Check
- (e) Test and Measuring Tools
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