No. of Printed Pages: 2

BIEL-037

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Term-End Examination

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June, 2013

BIEL-037 : MAINTENANCE OF ELECTRONIC EQUIPMENT

Time: 3 hours

Maximum Marks: 70

Note: (i)

- (i) Attempt total five questions.
- (ii) Question No.1. is compulsory.
- 1. (a) What do you mean by reliability of an electronic equipment? 7x2=14
 - (b) Define the term failure rate and MTBF.
 - (c) Why the service manual and reference library is required in maintenance procedure?
 - (d) What is EMI?
 - (e) Explain fundamental steps to troubleshoot the system with help of block diagram.
 - (f) Comment on functional analysis.
 - (g) List various diagnostic softwares.
- Draw and explain generalized and traditional 14
 bath tub reliability curve and their different parts.
- 3. (a) What is availability of an electronic equipment? Explain need for maintenance.
 - (b) What is M.T.T.R. ? Discuss factors determining it.

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Explain contract maintenance, maintenance work 4. 14 order and reduction in downtime. Explain how following are helpful during 5. 14 maintenance and repair? Blow up diagram. (a) (b) Schematic diagram. (c) Block diagram. (d) Component layout. 6. (a) Explain different circuit test types. (b) Discuss signal tracing and functional 7 analysis for troubleshooting procedure. 7. Write short notes on Manuals, Catalogs and 14 Handbooks. 8. Write short notes on any four: $3\frac{1}{2}x4=14$ Preventive maintenance. (a) (b) Training maintenance personal. (c) Log book and performa for recording specifications. (d) Functional area approach. (e) Signal tracing. (f) Fault finding flow check.