DECVI

Term-End Examination

December, 2013

BIEL-037 : MAINTENANCE OF ELECTRONIC EQUIPMENT

1 ime	: 3 no	vurs Maximum Marks	Maximum Marks : 70	
Note	. ,	Attempt total five questions. Ouestion No.1. is compulsory.		
1.	(a) (b) (c) (d) (e) (f) (g)	Explain the term Redundancy. 7x2 Define the quality standards. What is the requirement of spare parts Inventory and its planning? Discuss personal safety issues. List fault finding aids. Explain basic steps for visual inspection. Explain role of service manual in trouble shooting.	=14	
2.	types	What is acceleration test? Discuss its different 14 types that are used to determine the reliability of an electronic equipment.		
3.	(a) (b)	What is exponential law of reliability? Explain. Is operation of electronic equipment affected by environmental conditions? Justify your answer.	7	
4.	(a) (b)	Define maintenance policy and different kind of maintenances. What is the maintenance work order? And explain, how downtime can be reduced?	7	

- Write note on Block diagram, Schematic diagram,Logic diagram and Harness diagram.
- 6. (a) What is visual inspection? How its 7 helpfull?
 - (b) Explain the procedure and steps to measure voltage levels and presence of signals during troubleshoot.
- 7. (a) What are the main contents of a documents for an electronic system?(b) Define Signal Injection and signal tracing 7
 - (b) Define Signal Injection and signal tracing 7 and explain.
- 8. Write a short note on any four: $3\frac{1}{2}x4=14$
 - (a) Qualitative maintenance.
 - (b) Work bench and power for work bench.
 - (c) Planning of new equipments and utilities.
 - (d) Di-assembly and Re-assembly.
 - (e) Functional analysis.
 - (f) Diagnostic softwares as troubleshooting