Printed pages: 2	EME041/EPL041
(Following paper code and roll No. to be filled in your answer book)	
Paper code: 140757/ 187757	Roll No. 1 2 0 3 2 4 0 0 3 9

B TECH
(SEM VII) THEORY EXAMINATION, 2015-16
TOTAL QUALITY MANGEMENT

Time: 3 Hours **Total Marks: 100**

SECTION A

1 Attempt all question **(2x10=20)**

a) What is ISO? Give its concept.
b) How Control Charts are useful in any industry?
c) What is Reliability?
d) Give all the formulae related to R-chart & $\bar{X}$ -chart
e) What is Quality Audit?
f) What is inspection? Discuss its different aspects.
g) What is meant by MTBF, MTTF?
h) Explain SPC.
i) What is quality and quality characteristics
j) What is zero defect

SECTION B

Attempt any five: **(5x10=50)**

2. Explain economics of quality value and its contribution.
3. What are Shewhart's control charts? Explain how they are used to reduce the production of defectives in a factory.
4. Explain quality system ISO-9000.

5. What is Taguchi quality?
6. Explain operating characteristics of quality curves.
7. What is after sales service? Explain.
8. What is Control Chart? What are the different types of control charts? Write down the advantages also.
9. What is the procedure of constructing R-chart? How can we analyze it?

SECTION C

Attempt any two: **(2x15=30)**

10. Give historical background of ISO. Give its significance also.
11. Explain the reliability and factors affecting it. Explain the procedure of calculation of reliability. Explain how the reliability can be built in the product. How reliability can be controlled during manufacturing.
12. Explain the reliability and factors affecting it. Explain the procedure of calculation of reliability. Explain how the reliability can be built in the product. How reliability can be controlled during manufacturing.

→ Batch type manufact. system has less quality problem than job-shop mass production system. Comment on this statement whether it's write or wrong. By comparing these three systems on almost all issue of PPC & quality.