Second Semester Regular/Back Examination – 2015-16

OPERATION MANAGEMENT
BRANCH(S): MBA
Time: 3 Hours
Max marks: 70
Q.CODE:W430

Q.1 Short answer type questions:-   [10 X 2 Marks]

   a) ISO 14000 concerns to what?
   b) If sum of nine observations is 10.35 minutes and performance rating is 1.13, find out normal time?
   c) Find out UCL and LCL of mean control chart with following information.
      $\bar{\bar{x}}$ =12.11, z=3, n=4 observations per sample, and σ=0.02.
   d) Twenty five samples of n=10 observations have been taken from a milling process. The average sample range was 0.01 cm. Determine upper and lower control limits for sample ranges. (When D_4=1.78 & D_3=0.22)
   e) What are the important steps in creating an effective Supply Chain?
   f) Compute slack time for the following schedule.
      LS=10 and ES=04
   g) What do you mean by line balancing?
   h) What do you understand by safety stock?
   i) Briefly explain crashing.
   j) ISO 9000 concerns to what?

Long answer type questions (Answer any five)   [5 X 10 Marks]

Q.2 Why does the "proper" operations strategy keep changing for companies that are world-class competitors?

Q.3 What is the importance of rating and allowances in time study. Describe stop watch time study procedure.

Q.4 A project consists of 8 activities. Precedence relation and activity times are given. Draw the network and complete the critical path and show the ES, EF, LS, LF and slack for each activity in a tabular form. Find out the project duration.

Activity	Immediate predecessor	Activity Time(Weeks)
P	-	12
Q	-	20
R	-	28
S	R	12
T	P,Q	28
U	T,S	12
V	S	8
W	U,V	8

Q.5 Explain some important philosophies of Deming and Juran and their impact on quality.

Q.6 What are the important factors affecting plant location. Briefly explain single and multi-facility location techniques.

Q.7 Distinguish between in-process inventory, safety stock inventory, and seasonal inventory.

Q.8 Writ short notes on:-

 a) ABC Analysis

 b)Johnson's Rule