PAPER-9

OPERATION MANAGEMENT AND INFORMATION SYSTEM

REVALIDATION TEST PAPER-RV/09/OMS/2010

SECTION I-OPERATION MANAGEMENT

(Answer Question **1** and any **TWO** from the remaining)

1. (a) Write full description of the following:

(i) R&D, (ii) CPM, (iii) SD, (iv) ADB, (v) WHO, (vi) UTI, (vii) EDP, (viii) BPE, (ix) ISO, (x) OR

(b)   Given below are two lists —list 'A' containing six observations and list 'B' containing various functional areas associated with production management. Expand the abbreviations and match them with the corresponding functional areas.

List 'A'	List 'B'
LP	Quality control
PERT	Project planning
CRAFT	Inventory management
MRP	Product design
CAD	Product mix determination
AOQ	Plan layout

1×6

(c) Put an appropriate word or two in blank position :

(i)_____ uses algebraic procedure to solve any problem, which satisfies the test of linearity and certainty.

(ii) Under preventive maintenance "(hours worked for maintenance)/(Scheduled hours) × 100 = _____ "

(iii) Trend values of all years of the series may be obtained advantageously using the _____ .

(iv) _____ is a process that bakes on a white, brittle protection finish.   1*4

2 (a)

The annual sales of TV sets by a dealer in Delhi are as under :

Year	2004	2005	2006	2007	2008
Sales (thousand units)	3	14	36	4	33

Fit a linear trend equation to the sales figure and estimate the sales for the year 2009.   8

(b) Mention main factors to be considered when planning a good matrial handling system?   7

3 (a) Discuss the factors affecting the plant layout.   **7**

  (b) What are the various objectives of using control charts for variable characteristics of
     products undergoing manufacture   8

4 (a) What is Value Analysis?   5
 (b) Describe the main phases of a Value Analysis exercise.   5
 (c) It may generally be said that Value Analysis leads to Cost Reduction. Can you give
    some specific benefits which may be expected when Value Analysis is effectively used
    within a manufacturing organisation?   5

SECTION II-INFORMATION SYSTEM

(Answer Question **1** and any **TWO** from the remaining)

5. Write Short notes on :
    i)   Internet
    ii)   Search Engine
    iii)   E-mail.
    iv)   E-commerce
    v)   DBMS   2*5

(b) Which of the following featureswill apply for an interpreter and which ones for a
compiler
    i) Cost of Software is high.
    ii) Transaction takes place during execution
    iii)Translates the whole programme
     iv)Translates line by line
     v)Requires more memory   1*5

© Expand the following

    (i)   LAN
    (ii)   URL
    (iii)   DSS
    (iv)   ORDBMS
    (v)   DML   1*5

Q6 (a).   What are the cost components for implementation of ERP System?   5
   (b) Name and describe some common modules of an ERP System ?   5
   (c) What is methodology followed for implementation of ERP System?   5

Q 7 (a). What are the objectives of developing a good Management Information System 5

   (b) What the steps involved in developing an MIS ?   5

   (c) What are constraints towards developing MIS ?   5

8 Write Short Notes on :
   (i)   Knowledge Management
   (ii)   Business Process Re-engineering (BPR)
   (iii)   Expert System
   (iv)   Artificial Intelligence
   (v)   Decision Support System   3*5