

Total No. of Questions : 12]

SEAT No. :

**P1076**

**[4659]-147**

[Total No. of Pages : 2

**B.E.(Production)**  
**a-WORLD CLASS MANUFACTURING**  
**(Semester-II)(2008 Pattern) (Elective-IV)**

*Time : 3 Hours]*

*[Max. Marks : 100*

*Instructions to the candidates:*

- 1) *Answer any three questions from each Section.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to right indicate full marks.*
- 4) *Assume suitable data wherever necessary.*

**SECTION-I**

**Q1) a)** Explain meaning of excellence with respect to manufacturing and business? **[8]**

b) Discuss Maskell's WCM model? **[8]**

OR

**Q2) a)** Discuss step by step Hall's frame work? **[8]**

b) Explain Schonberger's WCM model? **[8]**

**Q3) a)** Explain significance of the Bench marking in world class companies?**[8]**

b) Discuss Toyota production system? **[8]**

OR

**Q4) a)** How value stream mapping is used in WCM? **[8]**

b) Explain fundamental practices of WCM? **[8]**

**Q5) a)** Discuss push & pull JIT manufacturing systems? **[10]**

b) Explain FMS system in detail? **[8]**

OR

**P.T.O.**

**Q6)** Write short notes on following. **[18]**

- a) Kanban.
- b) 3M.
- c) Procurement & store practice of WCM companies.

**SECTION-II**

**Q7)** a) Explain organization structure of any one world class company? **[8]**

b) Discuss how root causes techniques are used in WCM? **[8]**

OR

**Q8)** a) How the HR department is handled in WCM? **[8]**

b) Explain various motivation techniques. **[8]**

**Q9)** a) What is POP system? **[8]**

b) Discuss TOPP system of WCM performance? **[8]**

OR

**Q10)**a) Explain AMBITE system? **[8]**

b) Discuss significance of six sigma WCM. **[8]**

**Q11)**a) Discuss effect of green manufacturing? **[8]**

b) Explain any one case study of MNC related to WCM? **[10]**

OR

**Q12)**a) Write short note on clean manufacturing? **[8]**

b) What do you understand from agile manufacturing? Explain in detail. **[10]**

□□□