

**B.TECH. SEM -VI PRODUCTION 2014 COURSE (CBCS) :  
WINTER - 2017**

**SUBJET: PRODUCTION MANAGEMENT**

Day : **Tuesday**  
Date : **21/11/2017**

**W-2017-2234**

Time : **10.00 AM TO 01.00 PM**  
Max. Marks : 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Use of non-programmable **CALCULATOR** is allowed.
  - 4) Assume suitable data if necessary.
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- Q.1** Describe production management with its scope, function, objectives in detail. (10)
- OR**
- Q.1** Explain stages of product design and development with importance of each stage. (10)
- Q.2** a) Define plant layout also state objectives of plant layout. (05)  
b) What are the factors affecting plant layout? (05)
- OR**
- Q.2** Explain the tools and techniques used to optimize the plant layout. (10)
- Q.3** a) Explain man power forecasting and manpower inventory. (05)  
b) Describe measurement of productivity with its use and applications. (05)
- OR**
- Q.3** a) Explain strategies for aggregate capacity planning. (05)  
b) Describe Toyota production system (TPS) with its merits and demerits. (05)
- Q.4** a) What is the need of industrial maintenance? State its merits? (05)  
b) What are the different types of maintenance? Explain any one in detail. (05)
- OR**
- Q.4** Describe the role of industrial maintenance in production management by centering principles, operating policies, maintenance management. (10)
- Q.5** Describe world class manufacturing with its working, objectives and applications in detail. (10)
- OR**
- Q.5** a) What are the problems in manufacturing sector? (05)  
b) Explain evolution of world class manufacturing. (05)
- Q.6** a) Explain energy conservation and energy audit. (05)  
b) Explain waste heat treatment in detail. (05)
- OR**
- Q.6** Describe lean and agile manufacturing also compare them with merits and demerits. (10)

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