G 622   (Pages : 2)   Reg. No....................................

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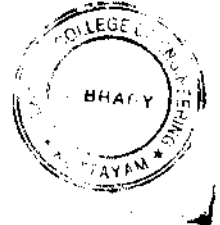# B.TECH. DEGREE EXAMINATION, MAY 2014

Seventh Semester

Branch : Mechanical Engineering / Automobile Engineering

INDUSTRIAL ENGINEERING (M, U)

(Old Scheme – Prior to 2010 Admissions)

[Supplementary]

Time : Three Hours   Maximum : 100 Marks

Part A

Answer all questions.

Each question carries 4 marks.

1. Explain the concept of Improving productivity by reducing work content.

2. What is Value added manufacturing?

3. Enumerate the specific objectives of maintenance in an Organisation.

4. What is Depreciation? What are the needs of calculating depreciation?

5. What is a Flow process chart? Discuss its utility for method study engineer.

6. State the benefits of merit rating.

7. What is an Industrial dispute? State the aims of Industrial Dispute Act.

8. State the principles to Ergonomics of posture and movement.

9. Define the term Quality and state the various factors which affect product quality.

10. What is Cost estimating? State the objectives of cost estimating.

                                                          (10 × 4 = 40 marks)

Part B

Answer all questions.

Each question carries 12 marks.

11. (a) "Productivity is a means for increasing the welfare of the Nation". Justify the statement.

Or

(b) What is Value Analysis? What are its objectives? How does it differ from Value Engineering?

Turn over

12. (a) Explain the procedural approach to be adopted for Analysis for handling problems and development of low cost material handling system.

Or

(b) Describe the characteristics of JIT production. State the merits and demerits of JIT system.

13. (a) Explain the utility of outline process chart in method study. Differentiate between Outline process chart and Flow process chart.

Or

(b) Describe factor comparison method of Job evaluation with its merits and demerits.

14. (a) Describe the principles of Industrial Legislation.

Or

(b) Define Ergonomics. State its objectives and advantages.

15. (a) What is Economic order quantity? Derive the formula for determining EOQ.

Or

(b) What is the meaning of Quality of Conformance? Explain the factors which influence quality of conformance.

(5 × 12 = 60 marks]