

SUBJECT CODE NO:- P-321
FACULTY OF ENGINEERING AND TECHNOLOGY
B.E.(Mech.) Examination May/June 2017
Industrial Engineering [Elective-II]
(Revised)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- i) Solve any three questions from each section.
 - ii) Q.NO.5 and Q.NO.10 are compulsory.
 - iii) Figures to the right indicate full marks.
 - iv) assume suitable data wherever necessary & state it clearly
- Section A
- Q.1
- a) Define work study, state its scope & applications. 07
 - b) Explain the concept of work content. what are the techniques to reduce the work content? 06
- Q.2
- a) Explain the relation of work study with productivity. 07
 - b) What are the functions and qualities of work study man? 06
- Q.3
- a) Define method study. State its objectives. Explain the procedure of method study. 07
 - b) What are string diagram & multiple activity chart? State its significance. 06
- Q.4
- a) Explain in detail the principles of motion economy. 07
 - b) "Critical examination forms the basis for methods improvement" explain. 06
- Q.5 Write short note on any two. 14
- a) Job analysis , job description and job specification .
 - b) Merit rating methods.
 - c) Various allowances considered while building the standard time.
- Section B
- Q.6
- a) Define PMTS also explain factors to be considered while using PMTS . 07
 - b) Explain the Westinghouse method of performance rating . 06
- Q.7
- a) Explain different techniques of job evaluation and merit rating . 07
 - b) Explain the significance of job evaluation /merit rating with work measurement . 06
- Q.8
- a) Explain the kaizen umbrella for quality improvement. 07
 - b) Explain kaizen and innovation . 06
- Q.9
- a) Explain concept , scope & objectives of JIT. 07
 - b) What are the basic assumptions of TOYOTA production system ? 06
- Q.10 Write short note on any two 14
- a) SMED
 - b) MOST
 - c) Push & pull system