

University Institute of Engineering & Technology

(Recognised Under Section 2(f) and 12B of UGC)

Kurukshetra University, Kurukshetra

TIME – 3 Hrs 15 Min

THEORY EXAMINATION – JAN 2021

M.M. - 56

B.TECH - ME

SEMESTER –VII

PAPER - ME-405

SUBJECT- INDUSTRIAL ENGINEERING

INSTRUCTIONS TO BE FOLLOWED

- Allotted time for examination is 3 hours 15 minutes that includes time for downloading the question paper, writing answers, scanning of answer sheets and E-mailing the PDF files to the designated Email ID.
- For all B Tech. Mechanical Engineering Students, the Email ID is:- btechmechuiet@kuk.ac.in
- The candidates will be required to attempt 75% of the question paper (maximum) by choosing to their any best questions accumulating 56 marks.
- The PDF files should be saved as Roll No. and Subject Code. Proper attention should be given while sending the email and in the subject line, the Roll Number and Subject Code should be mentioned.
- Maximum Page Limit should be 20 (Twenty) for attempting the question paper on A4 sheets which could be downloaded and printed from the sample sheets given in the Kurukshetra University Examination guidelines.
- Over-attemptation should be avoided.
- Handwriting should be neat and clean and diagrams should be clear and contrasted.
- The candidate should not write their Mobile No. otherwise Unfair Means Case will be made.
- While attempting the paper, the candidate will use blue/black pen only.
- Before attempting the paper, the candidate will ensure that he/she has downloaded the correct question paper. No complaint for attempting wrong question paper by the candidate will be entertained.
- Candidate must ensure that he/she has put his/her signature on each page of the answer sheet used by him/her. Answer sheet without the signature of the candidate will not be evaluated.

PART-A

Q. No. – 1 Answer the following questions.

15x1=15

(i)	Write down the steps involved in process analysis.
(ii)	Define micromotion study.
(iii)	Describe accumulative timing.
(iv)	Discuss cyclic interference allowances.
(v)	Explain the principle of exception.
(vi)	Discuss line organisation.
(vii)	Write down the importance of critical ratio?
(viii)	Explain the aims of standardization.
(ix)	List the various methods of forecasting.
(x)	Discuss collective opinion method.
(xi)	What is the importance of S-OS analysis?
(xii)	List the inventory control model.
(xiii)	Enlist advantages of value engineering.
(xiv)	What do you understand by supply chain management?
(xv)	Describe push system in JIT.

PART-B

2	Discuss chrono cycle graph.	5
3	Define organisation theory. What are the objectives of organisation theory?	5
4	What are seasonal variations? Explain their importance for sales forecasting.	5
5	Explain the characteristics of good incentive plan.	5

PART-C

6	Construct and analyse two hand process chart for fixing a tool in tool post of a lathe Machine.	10
7	Explain the complete procedure of work study. How will you determine the number of Observation required for given accuracy and confidence level.	10
8	Explain the principles, types, and functions of committee organisation.	10
9	What are the factors which affect scheduling? Explain the procedure of scheduling.	10
10	Explain moving average method of sales forecasting. Why this method is preferred over Simple average method.	10
11	Describe ABC inventory distribution by value. Also discuss the advantages and limitations Of ABC analysis.	10
12	Explain the principles, advantages, and disadvantages of group incentive plan. Where it is Applied.	10
13	Explain the objectives of SCM and what role does information technologies play in SCM?	10