

Code No: 56016

## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, May - 2019

## INDUSTRIAL MANAGEMENT

(Common to ME, AME, MIE)

Time: 3 hours

Max. Marks: 75

Answer any five questions  
All questions carry equal marks

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- 1.a) Explain the McGregor's theory 'X' and theory 'Y'. How do these theories help to motivate the employees?  
b) Explain Herzberg's Two Factor theory of motivation. [8+7]
- 2.a) List out the principles of a sound organization and explain any three principles in detail.  
b) List out various methods of departmentation. Explain any of them in detail. With an example. [7+8]
- 3.a) Explain various steps involved in stopwatch time study for establishing the standard time for a job.  
b) Explain the working principle of double sampling plan. [8+7]
- 4.a) What is selective inventory control? From the following details, draw a plan of ABC selective control

Item no	1	2	3	4	5	6	7	8	9	10	11	12
Annual use	7000	24000	1500	600	38000	40000	60000	3000	300	29000	11500	4100
Price	5	3	10	22	1.50	0.5	0.2	3.5	8.00	0.40	7.10	6.20

- b) State the duties of purchase manager. [7+8]
- 5.a) What do you understand by 'Recruitment Policy' of an organization? Discuss the pre-requisites of a good recruitment policy.  
b) List various methods of merit rating? Explain any two in detail. [8+7]
6. The time estimates (in weeks) for the activities of a P.E.R.T network are given below:

Activity	Optimistic Time	Most likely time	Pessimistic time
1-2	1	1	7
1-3	1	4	7
1-4	2	2	8
2-5	1	1	1
3-5	2	5	14
4-6	2	5	8
5-6	3	6	15

- a) Draw the network  
b) Determine the critical path and expected time to complete the project.  
c) If the project due date is 5 weeks, what is the probability of meeting the due date. [15]

7.a) State and explain the factors to be considered in defining mission, objectives and policies for an organization.

b) Explain the procedure involved in SWOT analysis. [8+7]

8.a) Explain working principle of JIT system. What is kanban? Explain its role in JIT system.

b) Explain about Deming's PDCA. [8+7]

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