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(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID: 140860

Roll No.

B. TECH.

Theory Examination (Semester-VIII) 2015-16

PRODUCTION AND OPERATIONS MANAGEMENT

Time: 3 Hours Max. Marks: 100

Section-A

- 1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. $(2\times10=20)$
 - (a) Explain the concept of five P's.
 - (b) What do you understand by operations strategy?
 - (c) What is the role of standardization in product design?
 - (d) Discuss the concept of service capacity.
 - (e) Explain earliest start and finish times.
 - (f) What are free float and independent float?

(1) P.T.O.

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What is facility layout? Discuss different types of

facility layouts.

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Section-B

- Attempt any five questions from this section.
- What do you understand by product design? Discuss
- (b) What are different strategies for service capacity What do you mean by facility location? What are designing service processes. planning? Also discuss various approaches for various steps involved in product design process.

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different factors involved in facility location plan-

- manufacturing steel utensils. It is considering three loca-
 - (a) A limited company is planning to start a new factory for (15×2=30)

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Note: Attempt any two questions from this section.

Also discuss its scope.

What do you understand by operations management?

Section-C

106/494/261/6525 490 per unit respectively. The factory will have an annual production capacity of 10,000 steel utensils and in

estimated at Rs 500 per unit, Rs 580 per unit and Rs spectively. The variable costs at the three locations are 8.15 million, Rs 7.377 million and Rs 7.903 million recosts at the three locations have been estimated at Rs. tions, namely, Bokaro, Jamshedpur and Bhilai. The fixed

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namely plane turning, step turning and taper turning on a number of different jobs. The relevant data is tabulated

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1/6525		(iii)	(ii)	: Đ	5	4	3	2	1	1	1	i	13011
	(Find the expected project completion time.	Calculate the expected variances.	Draw the network.	6	6	5	5	4	3	2	J.	416160
	(4)	spected pro	he expected	etwork.	3	2	2	1	2	1	. 1	τ,	1
		ject comple	d variances		6	5	5	1	2	4	1	t _i	THE TH WCCVS
		etion time.	•		15	8	14	1	8	7	7	ţ	6

Obtai time,	6	5	4	3	2	1	job
Obtain optimal sequence of jobs as well as total elapsed time, and idle time for the three operations. (10)	11	9	2	5	12	3	Time for plane turning (in min)
nce of jobs as wo	1	3	6	4	6	8	Time for step turning (in min)
ell as total elaps ations. (1)	13	8	12	9	14	13	Time for taper turning (in min)
psed (10)			•				

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6. (a) What are symptoms of a bad layout?

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(b) What do you understand by principles of motion economy? Discuss. (5)

(c) What are different activities involved in operations scheduling process? (5)

(6)

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