

JK Lakshmipat University Jaipur
INSTITUTE OF MANAGEMENT

End Term Examination, November 2024
BBA, Semester V, 2022-25

Roll No.....

OP1101 : Operations Management

Time: 2 hours

Max. Marks: 30

Instructions to students:

1. Do not write anything, other than your roll number, on the question paper.
2. Attempt all questions and all parts of a question should be answered consecutively.
3. Use of calculator is permitted.

Q. 1 The following details are given for a project. Draw a network diagram using this information. Find Critical Path, Slack/Float using Forward Pass & Backward Pass Method. 6.0
(LO 1,2)

Activity Name	A	B	C	D	E	F	G	H	I	J	K
Activity Node	1-2	1-3	1-4	2-5	3-5	3-6	3-7	4-6	5-7	6-8	7-8
Predecessor	-	-	-	A	B	B	B	C	D,E	F,H	G,I
Duration (Days)	2	7	8	3	6	10	4	6	2	5	6

Q. 2.1 Discuss the objectives of scientific purchasing. What functions are generally assigned to the purchase department of a company ? 3.0
(LO1,2)

Q. 2.2 Under what conditions should a firm practice the following methods of buying: 3.0
(LO1,2)

- a. Forward Buying
- b. Contract Buying
- c. Tender Buying
- d. Group Purchasing
- e. Blanket Order
- f. Sub-Contracting

Q. 3.1 "5S is a commonsense approach to housekeeping". Discuss. 2.0
(LO 1,3)

Q. 3.2 How does internal setup differ from external setup? How internal setup tasks are converted into external setup tasks? 2.0
(LO 1,3)

Q. 3.3 What key principles underline poka yoke ? 3.0
(LO 1,3)

Q. 4.1	Distinguish between bottleneck and a constraint through relevant examples	2.0 (LO1,2)
Q. 4.2	The sum of local optimums is not equal to the global optimum. Discuss.	2.0 (LO 1,2)
Q. 4.3	Discuss the steps to be followed for scientifically removing constraint. Support your answer with suitable example.	2.0 (LO 1,2)

Q. 5.1 Determine the job sequence for the following 5 jobs on 3 machines. 5.0
(LO2)

Machine	Job Number				
	A	B	C	D	E
<i>I</i>	8	10	6	7	11
<i>II</i>	5	6	2	3	4
<i>III</i>	4	9	8	6	5

Also, determine the minimum time required for completion of jobs along with idle time on all the three machines.

All the best!