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Reg. No. | | | | | | | | | |

IV Semester M.B.A. Degree Examination, October - 2021
MANAGEMENT
Resource Optimization And Project Risk Management
(CBCS Scheme 2019-20)
Paper : 4.6.1

Time : 3 Hours **Maximum Marks : 70**

SECTION - A

Answer any **FIVE** questions, each carries 5 marks. **(5×5=25)**

1. What are the different types of resources engaged in manufacturing industry?

2. Solve the following LP problem graphically:

   i) $x_1 - x_2 \leq -1;$

   ii) $-0.5x_1 + x_2 \leq 2;$ and

   iii) $x_1, x_2 \geq 0.$

3. Plan out a business of your own and diagrammatically show the work breakdown structure of that business.

4. What is Resource levelling and Resource smoothing? Explain with a suitable example.

5. Why is Sensitivity Analysis called 'what - if analyses? How is Sensitivity Analysis used?

6. How would you describe Risk Identification process to be helpful in business or investment?

7. How does contingency planning and disaster recovery planning work hand in hand?

P.T.O.

SECTION - B

Answer any **THREE** questions, each carries **10** marks. (3×10=30)

8. Describe briefly the Ten Subsystems of Project Management.

9. An assembly is to be made from two parts X and Y. Both parts must be turned on a lathe. Y must be polished where as X need not be polished. The sequence of activities, together with their predecessors, is given below. Draw a network diagram of activities for the project.

Activity	Description	Predecessor Activity
A	Open work order	-
B	Get material for X	A
C	Get material for Y	A
D	Turn X on lathe	B
E	Turn Y on lathe	B, C
F	Polish Y	E
G	Assemble X and Y	D. F
H	Pack	G

10. "Resource planning is a process of allocating tasks to human and non-human resources." How do you justify this statement?

11. What are the four risk response development strategies? Discuss them briefly.

SECTION - C

Compulsory Question. **(1×15=15)**

12. A company makes two kinds of leather belts, belt A and belt B. Belt A is a high-quality belt and belt B is of lower quality. The respective profits are Rs.4 and Rs.3 per belt. The production of each of type A requires twice as much time as a belt of type B, and if all belts were of type B, the company could make 1,000 belts per day. the supply of leather is sufficient for only 800 belts per day (both A and B combined). Belt A requires a fancy buckle and only 400 of these are available per day. There are only 700 buckles a day available for belt B.

    a) What should be the daily production of each type of belt? Formulate this problem as an LP model and solve it using the simplex method.
