

B.Tech 7th Semester (AUE) F-Scheme

Examination, December-2017

**OPERATIONS RESEARCH AND INDUSTRIAL
MANAGEMENT**

Paper-AUE-405-F

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt any five questions in all. Question number one is compulsory and select at least one question from each section.

1. Write short note on the following: 5×4
- (a) What is PERT?
 - (b) What is CPM?
 - (c) Name methods of inventory control.
 - (d) Write short note on Linear Programming.

Section-A

2. Discuss in detail the Budget and Budgetary control. 20
3. Discuss in detail Queuing theory. 20

Section-B

4. Explain the principles and functions of management. 20
5. Explain simplex method in detail. 20

Section-C

6. Explain industrial psychology.

7. Discuss the remuneration and incentive schemes. 20

Section-D

8. Discuss in detail the industrial legislation and relations. 20
9. Solve the following transportation problem and find out optimal solution and minimum cost. 20

From	D1	D2	D3	D4	D5	Availability
O1	68	35	4	74	15	18
O2	57	88	91	3	8	17
O3	91	60	75	45	60	19
O4	52	53	24	7	82	13
O5	51	18	82	13	7	15
Required	16	18	20	14	14	