

Seat No.	
----------	--

**T.E.(Civil Engineering) (Part-II) (Semester-VI) (Revised)
Examination, May - 2017**

ENGINEERING MANAGEMENT

Sub. Code : 66875

Day and Date : Tuesday, 02-05-2017

Total Marks : 100

Time : 2.00 p.m. to 5.00 p.m.

- Instructions :**
- 1) All questions are compulsory.
 - 2) Figures to right indicate full marks.
 - 3) Assume suitable data if necessary.

SECTION-I

Q1) a) Find IBFS of following by [8]

- i) VAM method
- ii) N-W corner method

From	To				Supply
	L	M	N	O	
01	11	13	17	14	250
02	16	18	14	10	300
03	21	24	13	10	400
Demand	200	225	275	250	

b) Explain any one principal of management by Henry Fayol? [5]

OR

Explain the process of decision making with proper flow chart. [5]

c) Define controlling? Explain use of controlling in construction field? [5]

Q2) a) Explain following terms related to linear programming. [6]

- i) Decision variable
- ii) Constraint
- iii) Objective function

P.T.O.

- b) Write down steps to solve assignment problem. [5]

OR

Explain in detail ABC analysis? [5]

- c) Define material management? What are the objectives of material management? [5]

- Q3) a)** Draw a graph of stock vs. time showing. [6]

- i) Safety stock
ii) Lead time
iii) Maximum limit

- b) Define and explain sensitivity analysis? [5]

OR

Define material management? State functions of material management? [5]

- c) Give diagrammatic representation of decision tree and explain it with suitable example? [5]

SECTION-II

- Q4) a)** Using Annual worth method, suggest which equipment should be purchased if rate of interest is 12%. [12]

	Equipment A	Equipment B
Initial Cost	Rs. 25000/-	Rs. 35000/-
Annual O & M cost	Rs. 9000/-	Rs. 7000/-
Salvage value	Rs. 2000/-	Rs. 3500/-
Life (in years)	5	5

- b) Write importance of engineering economics? [6]

OR

List methods to solve transportation problem and explain any one. [6]

Q5) a) Draw a typical site layout for [8]

- i) Concrete dam
- ii) Multistoried building

b) Explain the procedure of value engineering? [8]

OR

Define ISO 9000? Write need and benefits of ISO 9000. [8]

Q6) a) Write in detail about Benefit cost ratio? [3]

b) Write short note on Net Present Value. [5]

c) Define Work Study? Draw flow chart for procedure of work Study? [8]

OR

Write in brief about building and other construction workers act? [8]

