## Mid-West University

## **Examinations Management Office**

End Semester Examinations 2081

Bachelor level/ B.E. Civil/ 7<sup>th</sup> Semester

Time: 3 hours Pass Marks: 25

Full Marks: 50

**Subject: Construction Management (MS403)** 

- Attempt all the questions
- Figures in the margin indicate full marks.
- Assume suitable values, with a stipulation, if necessary.
- Candidates are required to answer the questions in their own words as far as possible.
- 1. Define contractor. Write a characteristics of a good contractor. [1+1]
- 2. What is specification? Discuss on techniques of writing specification [1+3]
- 3. What are the disadvantages of prequalification? Explain about item rate contract. [1+2]
- 4. What are the types of guarantees in construction project contract in Nepal as per PPA/PPR? Explain. [3]
- 5. List the different types of road construction equipment. Explain briefly any two among them. [1+4]
- 6. As a project manager list out the records to be kept at construction site. Prepare a balance Sheet as per the following information (Amounts in Rs 1000). [1+4]

Cash at Bank = 600 Stockholder's Equity = 2000

Land Building and Machinery = 2500 Salaries Payable 300
Inventory = 200 Long Term Debt 600

Prepaid Expenses (eg. Insurance) 100 Amounts to Pay Sub-Contractor 700

Accounts Receivable from Different Projects 700

- 7. What do you mean by motivation? Is money everything to motivate a worker? Explain as per the motivation theory [1+4]
- 8. Write down the objective of project maintenance. List the elements for effective maintenance system. [2+3]
- 9. Construction dust from undergoing construction project has been a major problem in major cities of Nepal. Analyze the situation critically and suggest possible measures. [4]
- 10. Calculate the minimum cost and minimum duration schedule using time cost trade-off analysis of the project with following detail. Indirect cost is Rs. 1600 per week. [5]

Activity	Predecessor	Normal Duration (week)	Crash Duration(week)	Normal Cost	Crash Cost
A	-	25	18	4000	20000
В	-	27	22	6000	20000
С	A	10	5	6000	11000
D	A	4	2	8000	11000
Е	B, D	12	5	3000	4000

- 11. Write a short note on (Any three) [9]
  - **a.** Common accidents at construction site and remedial measures
  - h TRM
  - c. Job layout plan of Province Stadium Construction
  - d. Running Bill