



**UNIVERSITY OF PETROLEUM & ENERGY STUDIES
DEHRADUN**

End Semester Examination – April, 2017

Program/Course: BBA (FSM)	Semester : VI
Subject : Infrastructure Project Management & Control	Max. Marks : 100
Code : BBCF 137	Duration : 3 Hrs.
No. of page/s : 02	

Note: Use of calculator & graph paper is permitted.

SECTION – A (20 Marks)

Fill in the blanks. Each blank carries 2 marks.

- 1.1 A project cost estimate is required not only for assessing fund required but also for ascertaining _____ of project.
- 1.2 A cost estimate is composed of essentially two ingredients- _____ and unit prices.
- 1.3 Overall plant cost is estimated by multiplying total equipment cost by a factor known as _____ depending on plant size and complexity.
- 1.4 AACE stands for _____.
- 1.5 _____ is an attitude of mind and moral obligation to produce the results.
- 1.6 _____ is the process of entrusting some task to the subordinates with authority formally passed on.
- 1.7 All the costs incurred in the project before it becomes ready to start commercial production is termed as _____.
- 1.8 Time phased cumulative cost curve also known as cost baseline is _____ shaped curve.
- 1.9 Give the full form of PMBOK: _____
- 1.10 A project is a series of _____ directed to accomplishment of a desired objective.

SECTION – B (20 Marks)

Write short note on any 4. Each carries 5 marks.

- 2.1 PLC curve
- 2.2 Cost Engineering
- 2.3 CPM versus PERT
- 2.4 Authority & Accountability
- 2.5 Work Breakdown Structure

SECTION – C (30 Marks)

Attempt any 2 questions. Each question carries 15 marks.

3.1 What is the role of projects in the infrastructure development of a nation? How finance sector plays critical role in projects? Give a brief overview of techniques for financial appraisal of projects.

3.2 Explain the various types of cost estimates prepared and their significance. What are the problems of under estimation and over estimation of project cost?

3.3 Describe any two of the following types of project organization structure in detail with organizational chart:

(i) Matrix Organization (ii) Task Force Organization (iii) Totally Projectized Organization

SECTION – D (30 Marks)

Attempt both questions.

4.1 Estimate the installation cost of a plant to be constructed now of annual capacity 2000 tones at location B (location index of B = 150); given that the installation cost of an existing plant built in 2010 at location A (location index of A = 200) of annual capacity 1000 tones was Rs. 50 Crores, which was constructed in 2010. [Cost index (2017) = 1650, Cost index (2010) = 1250]; using (a) Investment per Annual ton Capacity Method & (b) Six-tenth Factor Method. (10 Marks)

4.2 Prepare time cumulative cost curve for the following project: (20 Marks)

Activity	Predecessors	Duration (Weeks)	Activity Cost (Rs. Lakhs)
A	-	8	8
B	-	2	8
C	B	5	10
D	C	6	9
E	A	4	12
F	D,E	4	6
G	D,E	1	1
H	F	3	6
