



**UNIVERSITY OF PETROLEUM & ENERGY STUDIES  
DEHRADUN**

**End Semester Examination – April, 2018**

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

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**Note: Use of calculator & graph paper allowed.**

**SECTION – A (20 Marks)**

*Fill in the blanks. Each blank carries 2 marks.*

- 1.1 A \_\_\_\_\_ is a temporary endeavor undertaken to create a "unique" product, service or result.
- 1.2 PMI stands for \_\_\_\_\_.
- 1.3 A cost estimate is composed of essentially two ingredients- quantities and \_\_\_\_\_.
- 1.4 The full form of IRR: \_\_\_\_\_.
- 1.5 The most hectic phase in the project life cycle is \_\_\_\_\_.
- 1.6 AACE stands for \_\_\_\_\_.
- 1.1 A project is a series of \_\_\_\_\_ directed to accomplishment of a desired objective.
- 1.2 PERT stands for \_\_\_\_\_.
- 1.3 Time phased cumulative cost curve is called as \_\_\_\_\_.
- 1.4 The full form of PMBOK: \_\_\_\_\_.

**SECTION – B (20 Marks)**

*Write short notes on any 4. Each carries 5 marks.*

- 2.1 Project scope Vs. Product scope
- 2.2 Project Network
- 2.3 Totally Projectized Organization
- 2.4 Force Majeure
- 2.5 Environmental Impact Assessment

**SECTION – C (30 Marks)**

*Attempt any 2 questions. Each question carries 15 marks.*

- 3.1 How financial institutions classify projects? Which are the key aspects of financial evaluation of projects? Describe the methods for the financial appraisal of projects.
- 3.2 What are the roles and responsibilities of a project manager? What type of problems and challenges does the project manager face? Give an account of qualification and experiential requirements for being a project manager.

3.3 Define contracts as per Indian Contract Act 1872. What are the essential elements of contracts? Name various types of tendering process and explain any one of them, stepwise.

**SECTION – D (30 Marks)**

*Attempt both questions.*

4.1 Consider the data of a project shown in the following table: (12 Marks)

<i>Activity</i>	<i>Immediate predecessor(s)</i>	<i>Time (weeks)</i>
A	-	8
B	-	10
C	A	6
D	A	9
E	B	10
F	B	13
G	E	5

- (i) Draw the project network diagram.
- (ii) Find the critical path and the minimum time required to complete the project.
- (iii) Also compute the slack time available with each activity.

4.2 The following table gives the data on a project. (18 Marks)

ACTIVITY	DESCRIPTION	IMMEDIATE PREDECESSORS	DURATION (WEEKS)	TOTAL COST RS. '000
H	Basic design	-	10	100
I	Hardware design for A	H	8	64
J	Hardware design for B	H	6	96
K	Drawings for B	J	4	16
L	Software specifications	J	2	36
M	Parts purchase for B	J	4	84
N	Parts purchase for A	I	4	80
O	Drawings for A	I	5	50
P	Installation drawings	I,J	5	60
Q	Software purchases	L	5	80
R	Delivery of parts for B	M	5	0
S	Delivery of parts for A	N	3	0
T	Software delivery	Q	3	0
U	Assembly of A	O,S	1	14
V	Assembly of B	K,R	5	80
W	Test A	U	2	24
X	Test B	V	3	36
Y	Final Installation	P,W,X	8	104
Z	Final system test	Y,T	6	66

- a) Draw the network for this project.
- b) Plan the project with Gantt Chart.
- c) Prepare the project cost baseline.

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