

R.No.



Harnessing Energy through Knowledge

UNIVERSITY OF PETROLEUM & ENERGY STUDIES, DEHRADUN

Mid-term Examination: April, 2017

Semester: VI

Name of the Program: BBA (OG/RM)

Duration: 3 Hours

Course Code: BBCG 108

Max. Marks: 100

Course Title: Project Management

SECTION - A

1. Attempt all the questions. Each question carries 2 marks only.

- a) Discuss the significance of Gantt Chart and its applications.**
- b) Enumerate any three approaches/methodologies.**
- d) Discuss the significance of Total Float.**
- e) Differentiate CPM from PERT.**
- f) Discuss the advantages of PPP projects in infrastructure.**
- g) Discuss the statistical measures used in PERT.**
- h) Describe various types of risks involved in a project.**
- i) Distinguish NPV from IRR.**
- j) Explain Murphy's Risk Management Plan?**

[10 x 2 = 20]

Section B

Attempt any 4 questions. Each carries 5 marks.

2. Discuss various types of activities and events for drawing network.
3. Discuss the significance of scheduling techniques in the project management.
4. Discuss the components of marketing feasibility of a project.
5. Discuss the steps in CPM Network planning.
6. Enumerate the causes of failure for projects. 4X5=20

Section C

Attempt any 2 questions. Each carries 15 marks.

7. Discuss the Project Definition phase. Give suitable example from the energy/retail sector.
8. Discuss the importance of Risk in project management. Describe risk management plan with an example from industry.
9. Draw a network for the following activities:

A small project is composed of 7 activities whose time estimates are listed in the table as below:

Activity	Optimistic Time	Most Likely Time	Pessimistic Time
1-2	3	5	7
1-3	1	6	9
1-4	2	2	8
2-5	1	1	1
3-5	2	5	14
4-6	2	5	8
5-6	4	8	14

Determine the following for the project given below:

- a) Critical Path
- b) Variance and Standard Deviation
- c) Total Slack

2X15=30

Section D

Attempt the following questions, which are compulsory:

10. Determine the following for the project given below:

- a) Critical Path
- b) Project Duration
- c) EFT (Earliest Finishing Time)
- d) LFT (Latest Finishing Time)

A project has following activities:

Activity	Immediate Predecessors	Duration (weeks)
A	-	4
B	-	5
C	-	7
D	A	5
E	B	4
F	B	3
G	C	4
H	D	2
I	E	8
J	F, G	4
K	H, I	6

11. The initial investment outlay for a capital investment project consists of Rs. 100 lakhs for the plant and machinery and Rs. 40 lakhs for working capital. Other details are summarized below:

Output 1 lakh units of output per year for years 1 to 5

Selling price: Rs. 120 per unit of output

Variable cost: Rs. 60 per unit of output

Fixed overheads (excluding depreciation): Rs. 15 lakhs per year for years 1 to 5

Rate of depreciation on plant and machinery: 25% on WDV method

Salvage value of plant and machinery Equal to the WDV at the end of year 5

Applicable tax rate: 40%

Time horizon: 5 years

Post-tax cut off rate: 12%

Indicate the financial viability of the project by calculating the Net Present Value.