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Total Number of Pages : 02

B.Plan  
15BPLN603

**6<sup>th</sup> Semester Regular Examination 2018-19**  
**PROJECT FORMULATION, APPRAISAL AND MANAGEMENT**

BRANCH : B.Plan

Max Marks : 100

Time : 3 Hours

Q.CODE : F382

**Answer Question No.1 (Part-1) which is compulsory, any EIGHT from Part-II and any TWO from Part-III.**

**The figures in the right hand margin indicate marks.**

**Part- I**

**Q1 Only Short Answer Type Questions (Answer All-10) (2 x 10)**

- Who devised rules for numbering of events in a network diagram?
- Name the two resources which determine the completion of any projects?
- Define critical path in a network diagram. What is its significance?
- A firm has to replace a machine after 15 years at an outlay of 6 lakhs. It plans to deposit equal amount at the end of every year for the next 10 years at an interest of 7.5% compounded annually. Find the equivalent amount that must be deposited at the end of every year for next 10 years.
- The event with the least slack value is called as \_\_\_\_\_.
- A person deposits a sum of Rs. 45,000 at an interest rate of 12% compounded annually for 8 years. Calculate the maturity value after 8 years.
- In CPM, critical events must have \_\_\_\_\_ slack.
- Name the modified version of Milestone charts?
- State the process used for accessing a project in a structured way?
- Draw the flowchart that explains the Work Breakdown Structure?

**Part- II**

**Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)**

- Project Management aims at achieving specific goals phase-wise in a project. Discuss the various phases involved in detail?
- Define Activity in a Network diagram? What are the various types of activities involved in the preparation of a Network diagram? Discuss briefly.
- In a given network below, determine the optimum duration and optimum cost of the project, if indirect cost of the project is Rs. 230 per day.

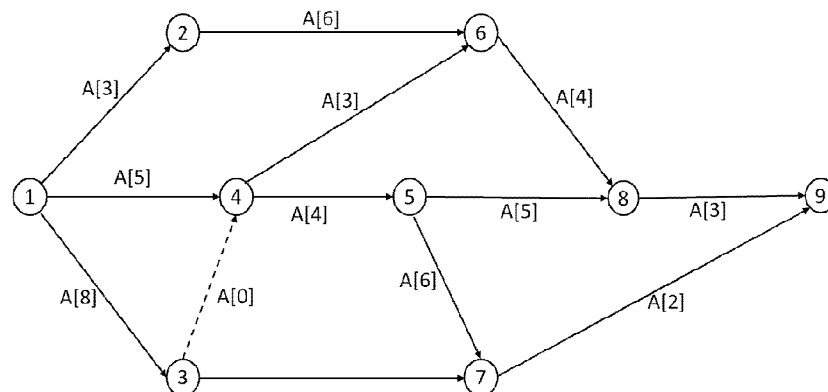
Activity	Normal time (days)	Crash time (days)	Normal cost (Rs)	Crash cost (Rs)
1-2	4	3	650	800
2-3	7	5	400	500
2-4	3	1	700	850
3-5	5	3	250	300
4-5	7	4	375	450

- Define Detailed Project Report (DPR)? What are its objectives and scope of work?
- Consider a machine that costs Rs.45000 and has a 8 years useful life. At the end of the 8th year, it can be sold for Rs 18000 after tax adjustment. If the firm earns an after tax revenue of Rs.19000 per year with this machine, should it be purchased at an interest rate of 12%?
- Differentiate between PERT and CPM?

- g) A township project is to be implemented, with provisions for housing, water supply, drainage, recreation and road networking. The established benefits and cost of three alternatives (in crores) are given below. The interest rate to be used for the analysis is 8 % and the life of each of the alternative is to be assumed as 45 years.

Alternatives	X	Y	Z
Initial cost	450	300	270
Building sales	240	180	150
Annual power	20	17	13
Annual recreation	4	2.5	2
Annual water supply	5	4.5	3
Annual drainage	3	2	1.5
Annual road network	5	3.5	2
Annual O & M	6	4	3

- h) Explain the use of Bar charts along with their advantages and disadvantages?  
 i) Discuss regarding various aspects of Project Appraisal?  
 j) Define feasibility study? Elaborate with examples the areas in planning where the feasibility studies are being undertaken?  
 k) Explain how resource allocation is done for any project. Justify your answer with examples?  
 l) The network diagram of a project is given below with estimated durations of various activities. 6



Determine the following :

- Earliest and latest start and finish times of each activity.
- Total float, free float and interfering float for each activity.
- Critical path for the network.

### Part-III

#### Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3 Discuss regarding Scientific Management of a project and its need? What are the various principles that define Scientific Management? (16)
- Q4 Define Project Formulation. What is the significance of Project Formulation? Briefly explain its various stages? (16)
- Q5 State the importance of Project Formulation, appraisal and Management? Cite reasons with examples for the failure in the performance of Formulation and appraisal of a project? (16)
- Q6 Every project has its own life cycle which is defined in various phases. Taking into consideration any planning project as an example, elaborate your understanding regarding the various phases in a lifecycle of a project? (16)