---- vill cury / Mitch/ Projed project / 30-5-2

## Mechanical/Automobile Q.P. Code: 727200

(3 Hours)

[Total Marks: 80

20

- N.B.: (1) Question No.1 is compulsory.
  - (2) Attempt any Three questions out of remaining Five questions.
  - (3) Figures to right indicate full marks.
  - (4) Assume suitable data if necessary.
  - (5) Notations carry usual meaning.
  - . Write short note on the following (any Four):
    - (a) Project Management Information System
    - (b) Work break down structure
    - (c) Role of Project manager
    - (d) Risk Register
    - (e) Gantt chart
  - 2. (a) Following are the manpower requirements for each activity in a project 1

Activity	Normal Time	Man Power Required
0 - 1	2	4
1 - 2	3	3
1 - 3	4	3
2 - 4	2	5
3 - 5	4	3
3 - 6	3	4
4 - 7	6	3
5 - 7	6	6
6 - 8	5	2
7 - 9	4	- 2
8 - 9	4	9

- (a) Draw the network diagram of the project activities
- (b) Rearrange the activities suitably for reducing the existing total man power requirement.
- (b) What are the Non-numeric models of project selection? Explain in brief.
- (c) How concurrent engineering approach is useful in Project Management?

5.	(a)	Explain project life cycle and phases.	
	(b)	What is a Project Portfolio Process? Explain different steps involved	100
		in this.	
4.	(a)	A consulting project has an actual cost of ₹35000, Scheduled cost ₹27000 and value of completed work of ₹31000. Find the Schedule	
		and Cost Variance Also Find SPI and CPI.	
	(b)	What are the different ways of Closing a Project?	
	(c)	Explain how a project is controlled and also explain types of control processes.	1
5.	(a)	Explain Top down and Bottom Up Budgeting in project planning.	
	(b)	Draw an Earned value chart and describe the three variances of it and explain their significance.	1
	(c)	Explain Planning - monitoring - controlling cycle for project execution.	
5.	(a)	Explain project management template with a sample template sheet.	1
	(b)	What is a Risk breakdown structure? How the impact scales are defined	1
		for various project objectives?	•