

BACHELOR OF ARCHITECTURE FIFTH YEAR FIRST SEMESTER - 2025**PROJECT MANAGEMENT**

Time: 3:00 Hrs.

Full Marks: 100

Answer any Five

1. Write work breakdown structure for completing a G+3 Residential building on a plot of 400 sqm. under any Municipality / Corporation Area of WB from inception to completion of the building project. Assume completion time of various activities in weeks and prepare a Bar Chart for the above building project.

Also write minimum 10 milestone events for the above said project. $10+5+5=20$

2. a. Draw the Project Network (Activity on Arrow) as per the details below. Find the Critical Path and Duration –

Activity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
Predecessor Activity	-	A	A	A	B	C	C	D	G	F	J	H, I, K	E	L, M
Duration (Weeks)	2	3	4	2	4	2	4	4	5	2	3	2	3	2

- b. What are the various phases of Project Management? Explain. $14+6=20$

3. Draw the Project Network (Activity On Arrow) as per the details below. Find the Critical Path and Duration –

Activity	A	B	C	D	E	F	G	H	I	J
Predecessor Activity	-	A	A	A	B	B	C	D, E	G	F, H, I
Duration (Weeks)	8	12	18	4	6	16	20	4	8	6

Also determine the Earliest Start, Earliest Finish, Latest Start, Latest Finish and Total Float for each activity.

$$8+2+10=20$$

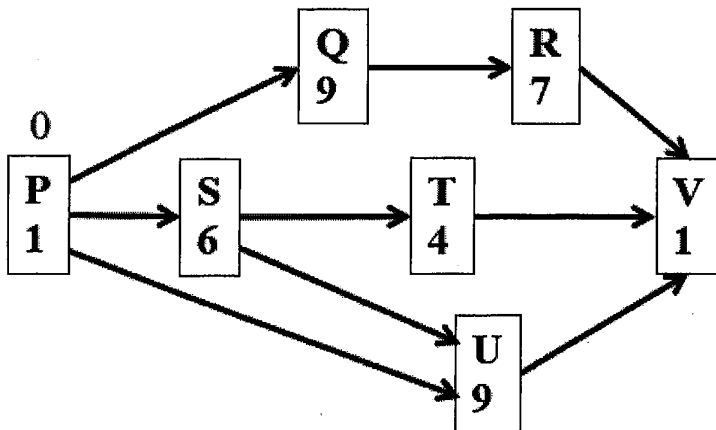
4. a. Draw the Project Network (Activity on Arrow) following the data given in the table below.

Activity	P	Q	R	S	T	U	V	W	X
Predecessor Activity	-	P	P	P	Q	R, S, T	U	U	V

- b. Compute the expected time for the activity 'M'.

Activity	Optimistic Time	Most likely time	Pessimistic time
M	4	12	22

c.



The network diagram of a construction project is shown in the Figure. The duration of each activity, in days, and the early start time of the project are denoted in the diagram. Show the critical path and find the total project duration along the critical path, in days?

$$8+4+8 = 20$$

5. What are the different forms of business entity can be formed in India? What do you mean by “Partnership Deed”? Which form of business entity would be appropriate to start an architectural consultancy and a manufacturing enterprise according to you? Explain those business entities.

$$4+2+(2 \times 6) = 20$$

6. Our country should encourage in rural entrepreneurship. Do you agree with this statement? Explain. What are the differences between business entrepreneurship and social entrepreneurship? Describe the role of entrepreneurship in economic development of the nation?

$$6+5+9 = 20$$

7. What entrepreneurial characteristics make a person successful entrepreneur? Explain. How any entrepreneur’s needs get developed from the starting of his/her venture to the successful running of the same? Explain this in detail as per Maslow’s theory.

$$5+15=20$$