

Question No. 1:

Table (1) shows the activities for a construction project and their dependencies. It is required to calculate total time and free float and total float by using C.P.M method and get critical path method.

Table (1)

Activity	Duration	Predecessors
A	4	----
B	5	A
C	3	A
D	3	B
E	6	C
F	2	D,F

Question No. 2:

Table (2) shows the activities for a construction project and their dependencies. It is required to calculate total time and free float and total float by using C.P.M method and get critical path method.

Table (2)

Activity	Duration (Months)	Predecessors
A	7	----
B	12	----
C	6	----
D	7	A
E	9	A,B,C
F	5	A,B,C
G	5	E,F
H	6	D,G
I	8	D,G
J	13	D

Question No. 3:

Table (3) shows the activities for a construction project and their dependencies. It is required to calculate total time and free float and total float by using C.P.M method and get critical path method.

Table (4)

Activity	Duration (Weeks)	Predecessors
A	4	----
B	3	----
C	6	A
D	6	B
E	8	B
F	5	D
G	6	F
H	7	E
I	4	H

Question No. 4:

Table (4) shows the activities for a construction project and their dependencies. It is required to calculate total time and free float and total float for activities (10, 50, 70,120) by using C.P.M method and get critical path.

Table (4)

Activity	Duration (Weeks)	Predecessors
10	6	----
20	3	10
30	4	10
40	9	10
50	12	----
60	8	----
70	3	20,40
80	6	30,40
90	4	30
100	4	50
110	3	50
120	1	50
130	6	70,80
140	7	80
150	4	90,100,140
160	2	110,120