

Question No 1:

Which of the following in the highway system has the same analogy as that of the flow branches and nodes of the network flow diagram

Roads

Intersection

Vehicles

Question No 2:

Define the following

a) Dummy activity and its use

b) Looping error in network

c) Dangling error in network

Question No 3:

What is PERT? How it is different from CPM?

Question No 4:

Draw a network diagram for the set of activities below

Activity	Predecessor	Duration
A	-	1
B	A	6
C	A	10
D	B	7
E	C	2
F	D,E	4
G	F	5

Question No 5:

Define the following terms

1) Earliest Start Time

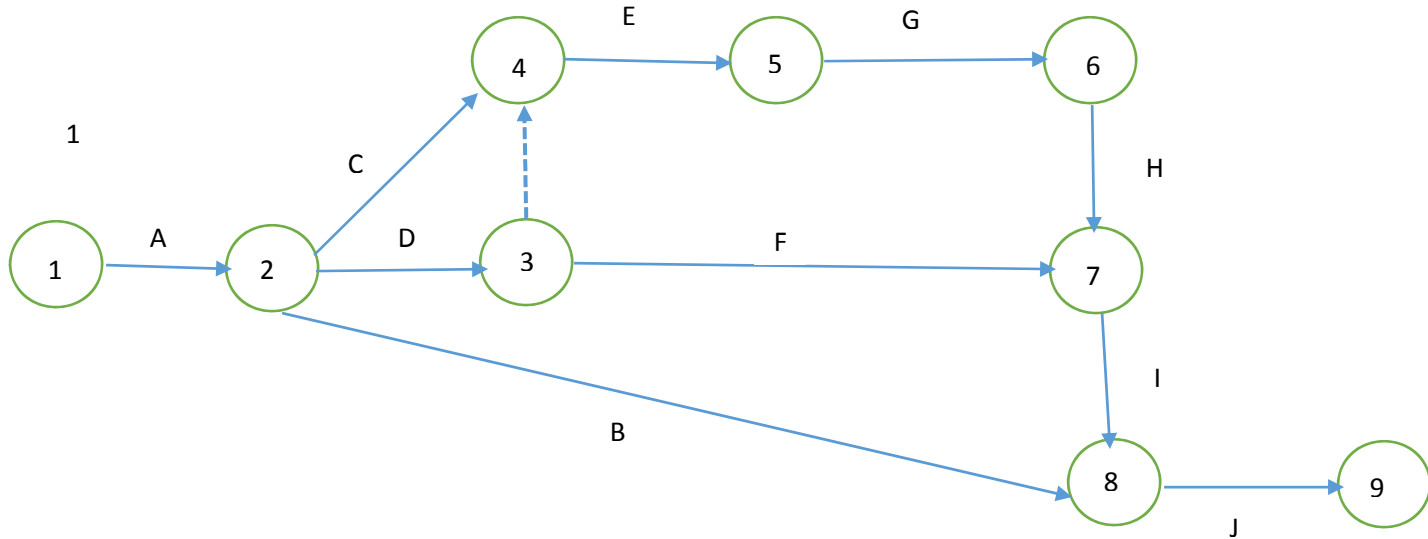
2) Earliest Finish Time

3) Latest Start Time

4) Latest Finish Time

Question No 6:

Construct a table for the network diagram which shows the relationship between activities and their predecessors.



Question No 7:

Calculate EST and EFT for each job of the following data.

Activity	Predecessor	Duration
P(1-2)	-	8
Q(1-3)	-	10
R(2-3)	P	12
S(2-4)	P	14
T(3-4)	R,Q	18

Question No 8:

If project completion date is 38 days for the following data then find the LST and LFT for the following data.

Activity	Predecessor	Duration
P(1-2)	-	8
Q(1-3)	-	10
R(2-3)	P	12
S(2-4)	P	14
T(3-4)	R,Q	18