## IIT121/ICS 121/ISS123: Introduction to Software Engineering

## Assignment

**Due: 27 April 2020** 

1) Using the information in the table below, assuming that the project activity durations are in weeks and that all tasks will start as soon as possible:

Task	Description	Duration	Predecessor
A	Requirements Analysis	5	-
В	System Design	15	A
С	Programming	25	В
D	Telecoms	15	В
Е	Hardware Installation	30	В
F	Integration	10	C, D
G	System Testing	10	E, F
Н	Training/ Support	5	G
Ι	Handover/Go-Live	5	Н

	1. Draw the network diagram for the project	[5]	
	ii. Determine the critical path of the project	[3]	
	iii. Calculate the planned duration of the project in weeks	[2]	
2)	Prepare a Gantt chart for the above project.	[6]	
3)	Differentiate between cohesion and coupling in functional dependence.	[4]	
<b>4</b> )	Explain the capability maturity model as a framework to improve the software process.		
		[10]	
5)	List and explain any four techniques of dealing with project risks.	[8]	
<b>6</b> )	State and explain the four levels of software testing.	[12]	