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Department: CSE (BTech)   3rd year

Semester: v

SE Assignment 1A

Q. 1. WASSIGNMENT-I (Project Scheduling: Activity Network & Gantt Chart)

(A) Consider the following activities of a project:

a) Specification

b) Design database

c) Design GUI part

d) Write user manual

e) Code database part

f) Code GUI part

g) Integrate and test

(15days)

(45 days)

(30 days)

(60 days)

(105 days)

(45 days)

(120 days)

The following precedence relations hold among the tasks:

A<{B,C,D}; {B<E}; C<F; {E,F}<G.

Draw the Activity Network Diagram .Find out the following time parameter for each

job: ES, IS, EF, LF, ST & MT for the project

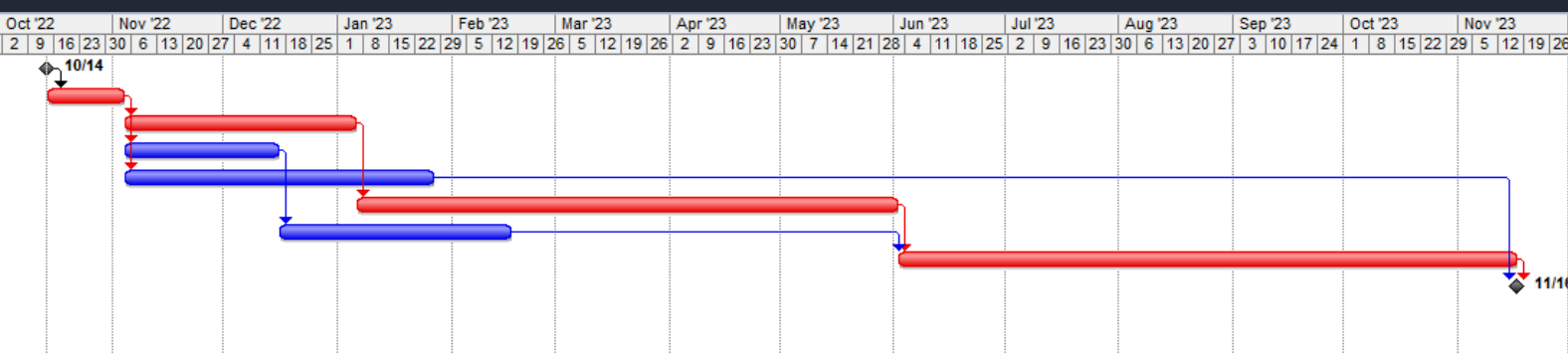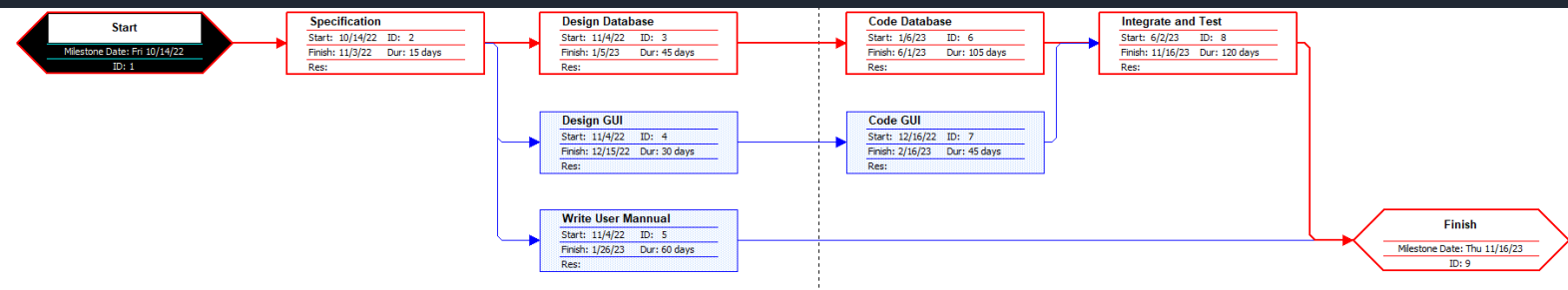Draw the Gantt chart.

Solution :

Table :

	ⓘ	Task Name	Duration	Start	Finish	Predecessors
1		Start	0 days	Fri 10/14/22	Fri 10/14/22	
2		Specification	15 days	Fri 10/14/22	Thu 11/3/22	1
3		Design Database	45 days	Fri 11/4/22	Thu 1/5/23	2
4		Design GUI	30 days	Fri 11/4/22	Thu 12/15/22	2
5		Write User Mannual	60 days	Fri 11/4/22	Thu 1/26/23	2
6		Code Database	105 days	Fri 1/6/23	Thu 6/1/23	3
7		Code GUI	45 days	Fri 12/16/22	Thu 2/16/23	4
8		Integrate and Test	120 days	Fri 6/2/23	Thu 11/16/23	6,7
9		Finish	0 days	Thu 11/16/23	Thu 11/16/23	5,8

Gantt Chart :

Network Diagram :

Start
Milestone Date: Fri 10/14/22
ID: 1

Specification
Start:	10/14/22	ID:	2
Finish:	11/3/22	Dur:	15 days
Res:			

Design Database
Start:	11/4/22	ID:	3
Finish:	1/5/23	Dur:	45 days
Res:			

Code Database
Start:	1/6/23	ID:	6
Finish:	6/1/23	Dur:	105 days
Res:			

Integrate and Test
Start:	6/2/23	ID:	8
Finish:	11/16/23	Dur:	120 days
Res:			

Design GUI
Start:	11/4/22	ID:	4
Finish:	12/15/22	Dur:	30 days
Res:			

Code GUI
Start:	12/16/22	ID:	7
Finish:	2/16/23	Dur:	45 days
Res:			

Write User Mannual
Start:	11/4/22	ID:	5
Finish:	1/26/23	Dur:	60 days
Res:			

Finish
Milestone Date: Thu 11/16/23
ID: 9

END