NAME - SK. ASIF ALI

DEPT - CSE. 1 ROLL - 37

SEM - 5th

1. Enter the following tasks, resources & materials for the following project and calculate cost for each resource and material using tabular format and also calculate the total cost of the project.

Tasks	Duration (in days)	Resources	Standard Rate	Materials	M. cost	Dependency
T_1	5	R_1, R_2	$R_1 = \$14/Hr$	M1	M1 = $12	independent
T_2	4	R_3, R_4	$R_2 = \$10/Hr$	$2M_1, M_2$	M2 = $16	independent
T_3	5	R_1, R_5	$R_3 = \$12/Hr$	3M2	M3 = $18	T_1
T_4	7	R_2, R_3	$R_4 = \$15/Hr$	$M_2, 3M_3$	M4 = $12	T_2
T_5	8	R_4, R_5	$R_5 = \$16/Hr$	$2M_3, 2M_4$		T_4.

Cost of project :-

Resource	Total Working hours	cost of resource (in $)
R1	(5+5) 8 = 80 hrs	14 x 80 = $1120
R2	(5+7) 8 = 96 hrs	10 x 96 = $960
R3	(4+7) 8 = 88 hrs	12 x 88 = $1056
R4	(4+8) 8 = 96 hrs	15 x 96 = $1440
R5	(5+8) 8 = 104 hrs	16 x 104 = $1664

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Material	Total units required	Cost of material (in $)
M1	1+2=3	12x3 = 36
M2	1+3+1=5	16x5 = 80
M3	2+2=4	18x4 = 72
M4	2	12x2 = 24

Total cost of project = (1120 + 960 + 1056 + 1440 + 1664 + 36 + 80 + 72 + 24)

= $6452.

2. Consider the following project and find out the expected time (te) for each task.

Tasks	time in (days) to	tm	tp	predecessor
PTW-1	2	4	6	none
PTW-2	2	3	10	none
PTW-3	4	6	8	PTW-1
PTW-4	1	5	15	PTW-2

Signature _____

ProjectLibre

File Task Resource View

Gantt | Network | WBS | Task Usage — Task views

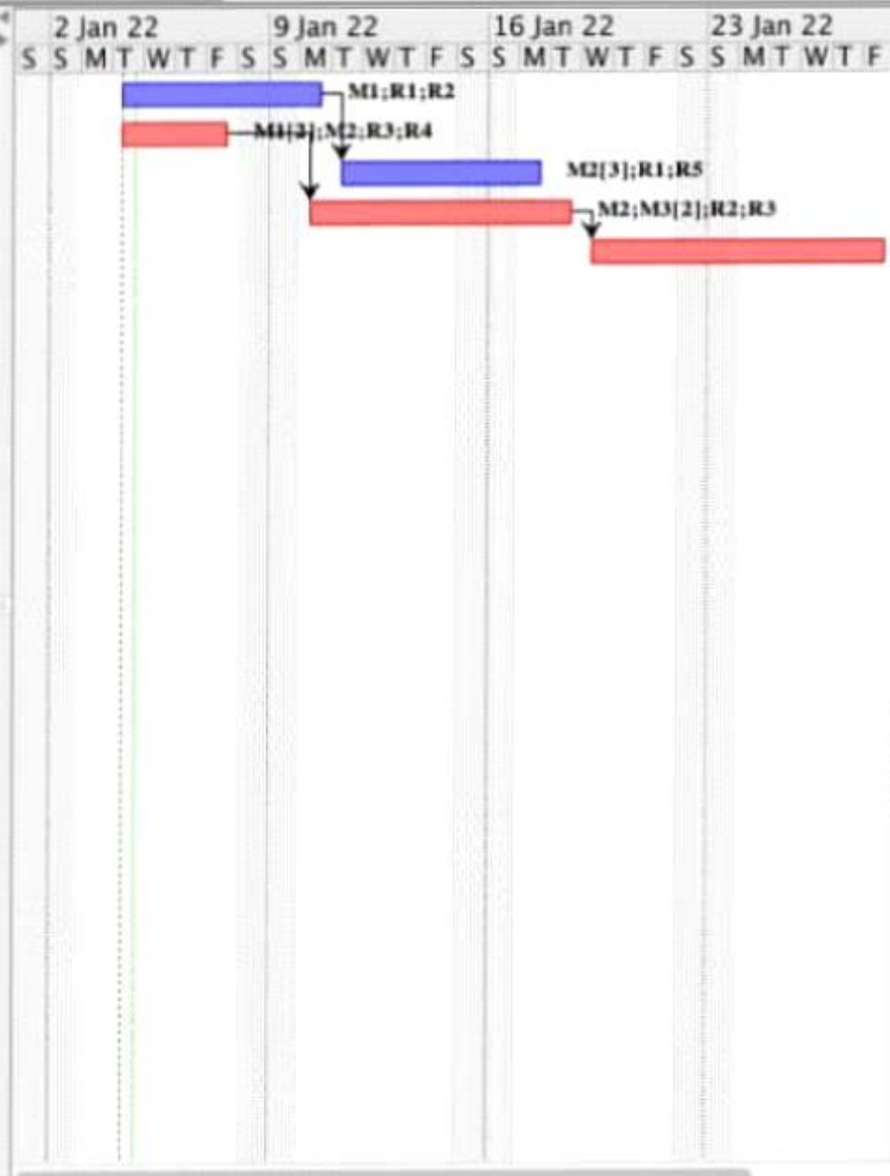
Resources | RBS | Resource Usage — Resource views

Projects | Report — Other views

Histogram | Charts | Task Usage | Resource Usage | No sub window — Sub-views

No Filter | No Sorting | No Group — Filters

		Name	Duration	Start	Finish	Predecessors	Resource Names
1		T1	5 days	4/1/22 8:00 AM	10/1/22 5:00 PM		M1;R1;R2
2		T2	4 days	4/1/22 8:00 AM	7/1/22 5:00 PM		M1[2];M2;R3;R4
3		T3	5 days	11/1/22 8:00 AM	17/1/22 5:00 PM	1	M2[3];R1;R5
4		T4	7 days	10/1/22 8:00 AM	18/1/22 5:00 PM	2	M2;M3[2];R2;R3
5		T5	8 days	19/1/22 8:00 AM	28/1/22 5:00 PM	4	M3[2];M4[2];R4;R5



$t_e = (t_o + 4t_m + t_p)/6$

PTN-1 $\rightarrow t_e = (2 + 4(4) + 6)/6 = 4$ days

PTN-2 $\rightarrow t_e = (2 + 4(3) + 10)/6 = 4$ days

PTN-3 $\rightarrow t_e = (4 + 4(6) + 8)/6 = 6$ days

PTN-4 $\rightarrow t_e = (1 + 4(5) + 15)/6 = 6$ days.