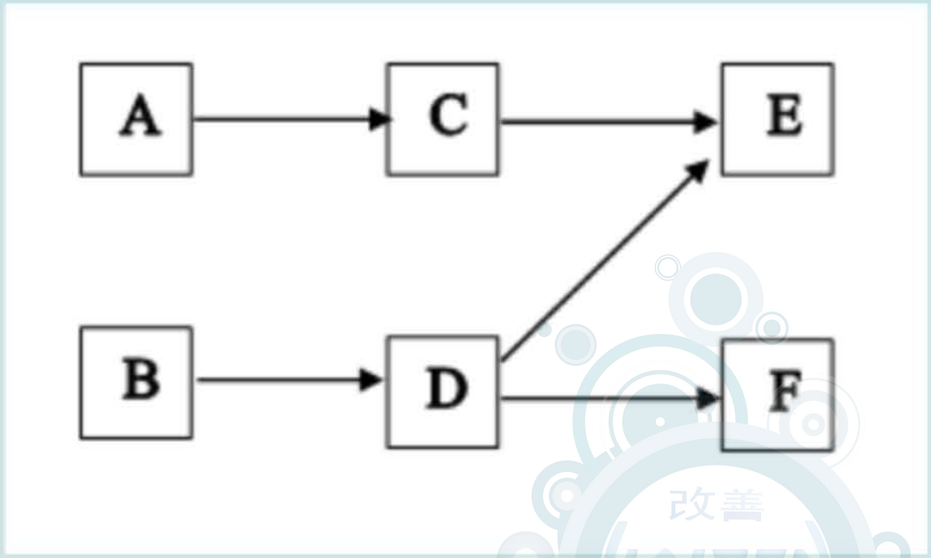
Question 21

Not yet answered

Marked out of 1

Flag question



Above is the project network for the Project X. Name all the activities that are parallel with Activity F (write the result in the space provided below).

Question 27

Not yet answered

Marked out of 1

Flag question

An activity that has more than one dependency arrow flowing into it is termed a(n)

Select one:

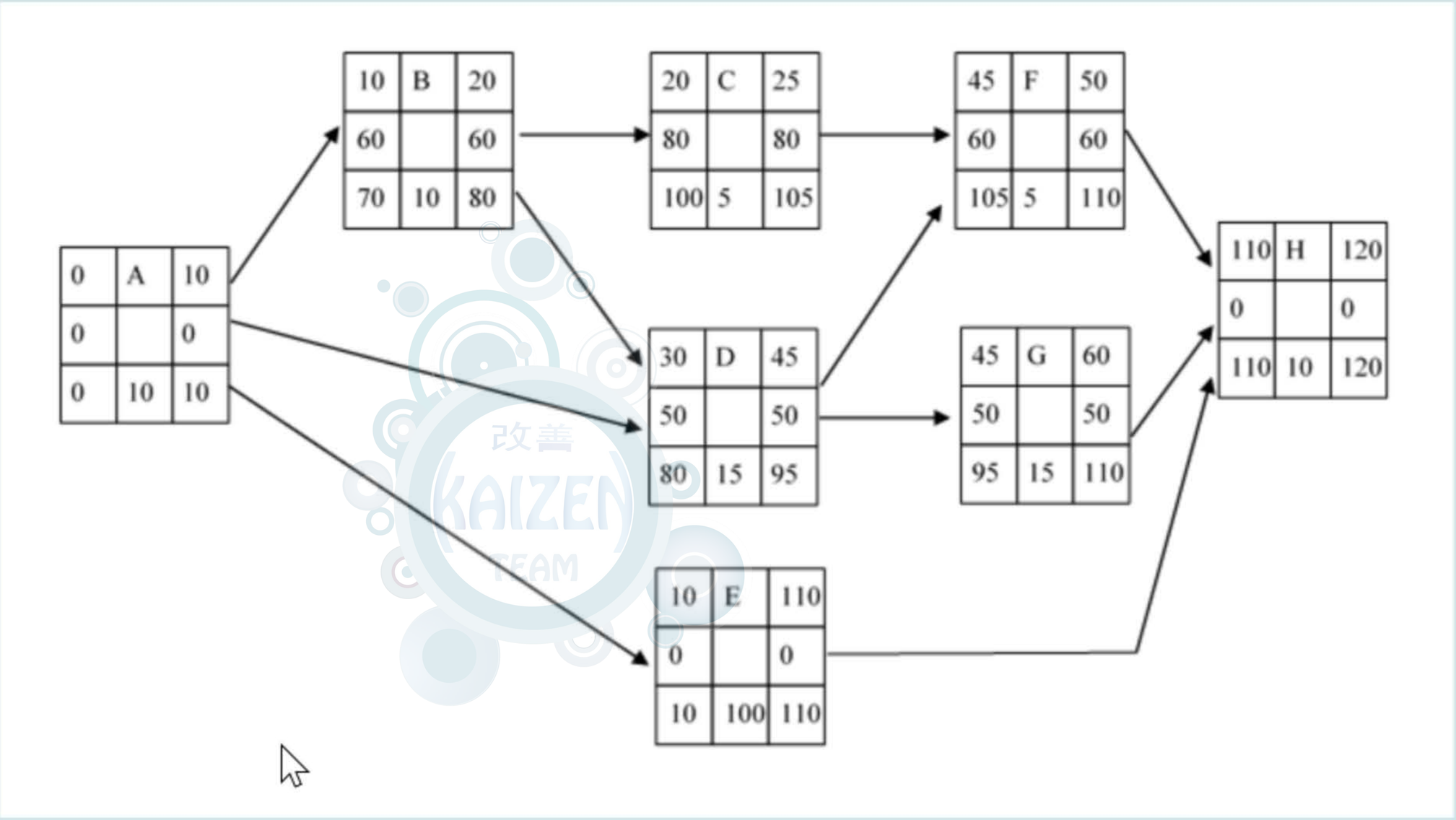
- a. Merge activity
- b. Parallel activity
- c. Critical path
- d. Burst activity

Question 23

Not yet answered

Marked out of 1

Flag question



Above is the project network for the Project X. What is the value of Free Slack for Activity B (write the result in the space provided below)?

Question 10

Not yet answered

Marked out of 1

Flag question

A software development company is using “Function point method” to estimate the time and cost of the project. The company will assign 4 people to work on the project. Each person earns $650/month. Each person can do 5 function points/month. If the estimated total function point count is 310, calculate the estimated project duration (write the result in the space provided below).

In which of the following stages is it determined what the project will entail, when it will be scheduled, whom it will benefit, and what the budget will be?

Select one:

- a. Conceptualizing
- b. Defining
- c. Planning
- d. Executing
- e. Delivering

Question 24

Not yet answered

Marked out of 1

Flag question

Information to develop a project network is collected from the:

Select one:

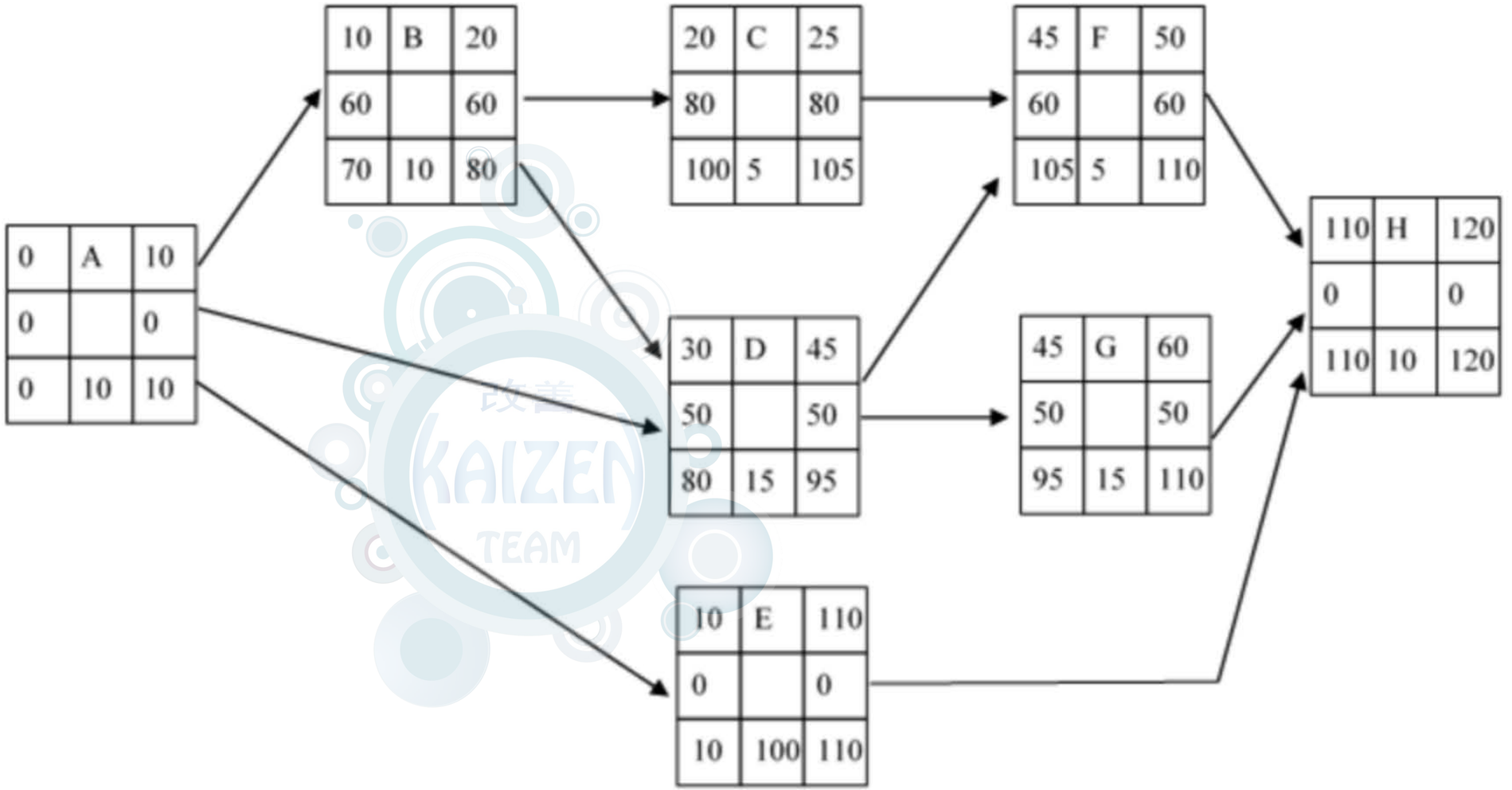
- a. Work breakdown structure
- b. Budget
- c. Project proposal
- d. Responsibility matrix

Question 22

Not yet answered

Marked out of 1

Flag question



Above is the project network for the Project X. What is the value of Total Slack for Activity D (write the result in the space provided below)?

Question 6

Not yet answered

Marked out of 1

Flag question

Which of the following activities is not considered a project?

Select one:

- a. Developing a new software program
- b. Designing a space station
- c. Preparing the site for the Olympic Games
- d. Production of automobile tires
- e. Developing a new advertising program

Question 12

Not yet answered

Marked out of 1

Flag question

Which of the following is a good condition for top-down estimating?

Select one:

- a. Cost and time important
- b. Fixed price contract
- c. Customer wants details
- d. Internal, small project

Question 17

Not yet answered

Marked out of 1

Flag question

The approach that begins with a top-down estimate for the project and then refines estimates as the project is implemented is known as _____ method:

Select one:

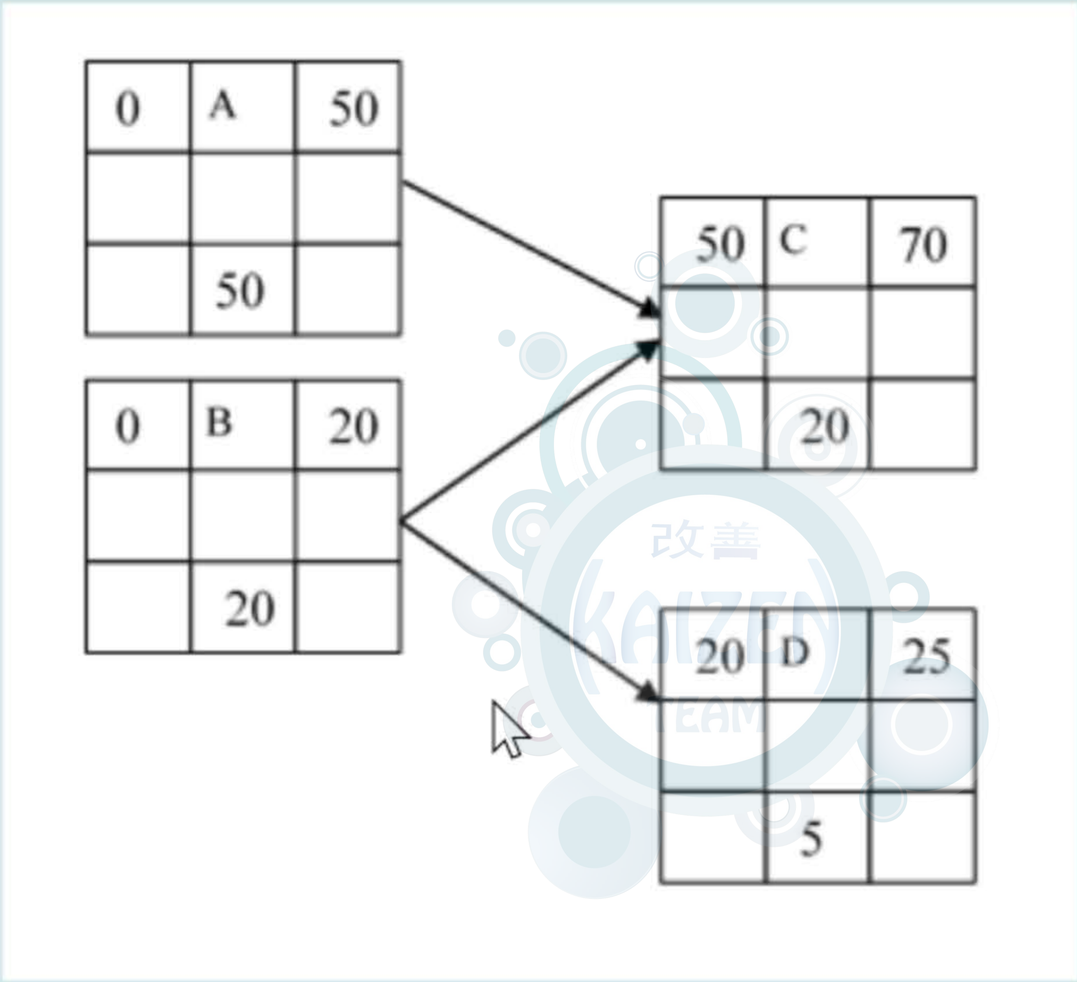
- a. Function point
- b. Template
- c. Learning curve
- d. Phase estimating

Question 19

Not yet answered

Marked out of 1

Flag question



Above is the project network for the Project X. Calculate the value of LS for Activity B (write the result in the space provided below).

Question 14

Not yet answered

Marked out of 1

Flag question

Ed is looking over the actual results of projects and comparing them to what was estimated. He notices that projects that took six months or longer to complete were noticeably more off the estimates. Which of the following factors is he recognizing?

Select one:

- a. Padding estimates
- b. Planning horizon
- c. Project structure

Question 18

Not yet answered

Marked out of 1

Flag question

_____ estimates are most likely to use low cost, efficient methods.

Select one:

- a. Apportion
- b. Ratio
- c. Top-down
- d. Bottom-up

Question 29

Not yet answered

Marked out of 1

Flag question

The forward pass in project network calculations determines the

Select one:

- a. Earliest time's activities can begin and finish
- b. Latest time's activities can begin and finish
- c. Critical path
- d. Activity slack time

Question 9

Not yet answered

Marked out of 1

Flag question

For a construction project:

- Labor hourly rate: $22/hr
- Hours needed: 13
- Labor direct overhead rate: 15%

Calculate the direct overhead cost of labor for the project team member (write the result in the space provided below).

Question 13

Not yet answered

Marked out of 1

Flag question

Which of the following is not one of the factors that need to be considered to improve quality of estimates for project times and costs?

Select one:

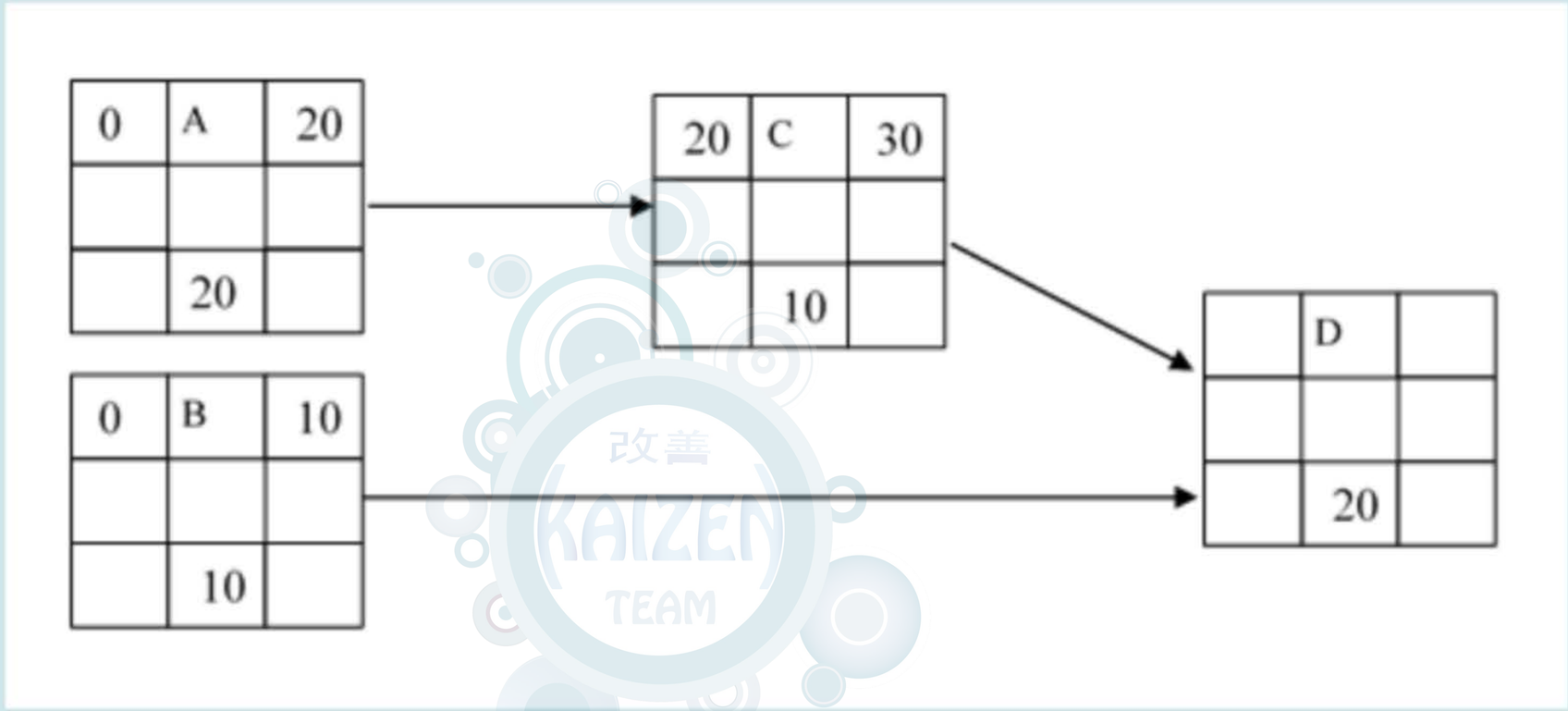
- a. Planning horizon
- b. People
- c. Padding estimates
- d. Profit
- e. Project structure

Question 20

Not yet answered

Marked out of 1

Flag question



Above is the project network for the Project X. Calculate the value of EF for Activity D (write the result in the space provided below).

Question 15

Not yet answered

Marked out of 1

Flag question

Companies like Boeing, Kodak, and IBM are using which of the following for improving the estimating process?

Select one:

- a. Adjusting estimates based on individual forecasting abilities
- b. Benchmarking using the experience of other companies
- c. Using time and motion studies
- d. Creating historical databases of previous projects

Question 16

Not yet answered

Marked out of 1

Flag question

In practice, estimating processes are frequently classified as:

Select one:

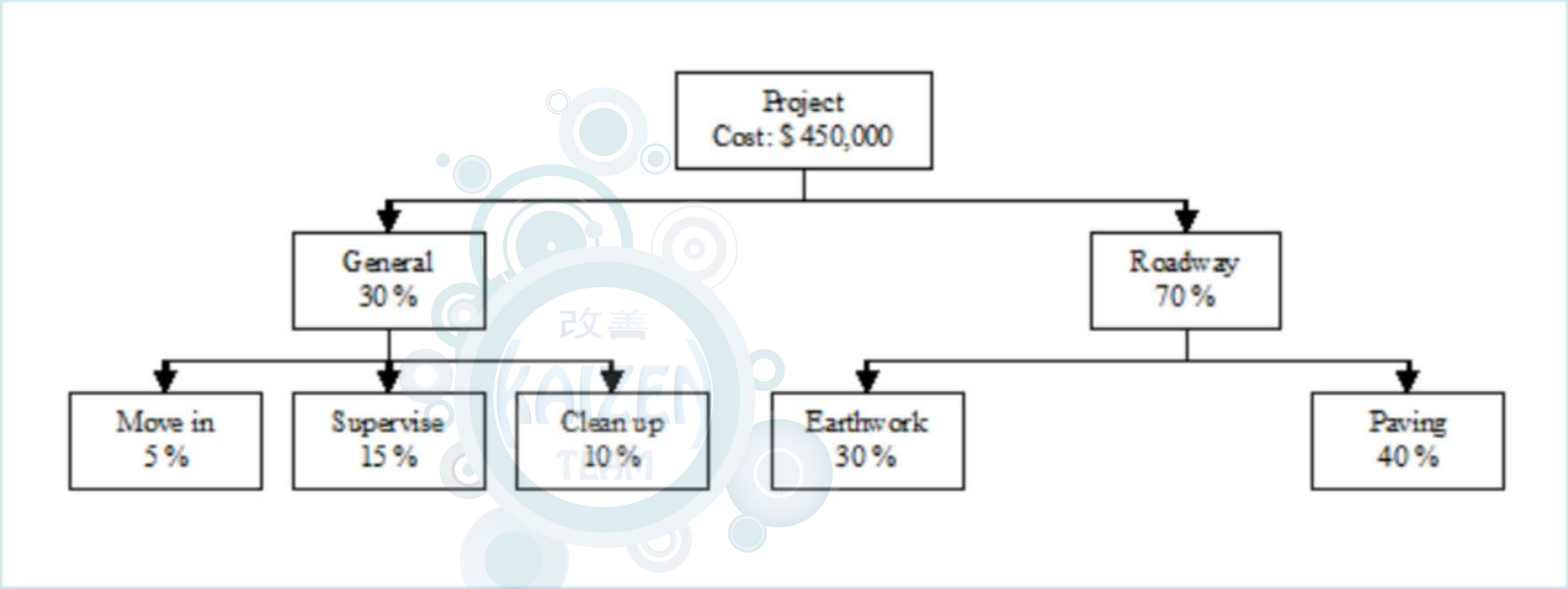
- a. Top down/bottom up
- b. Rough/polished
- c. Precise/order of magnitude
- d. Draft/final

Question 11

Not yet answered

Marked out of 1

Flag question



Above is a project WBS with cost apportioned by percent. If the total project cost is estimated to be $ 450,000 , what is the estimated costs for the (Paving) deliverable (write the result in the space provided below).

Question 25

Not yet answered

Marked out of 1

Flag question

Which of the following represents an activity on an AON project network?

Select one:

a. A node

b. An arrow

c. A line

Question 8

Not yet answered

Marked out of 1

Flag question

Give an example of a project in which performance is constrained (write it in the space provided below).

Question 26

Not yet answered

Marked out of 1

Flag question

On a project network, the activity times are derived from the:

Select one:

- a. Work packages
- b. Organization breakdown structure
- c. Budget
- d. Project proposal

Question 28

Not yet answered

Marked out of 1

Flag question

The critical path in a project network is the:

Select one:

- a. Longest path through the network
- b. Shortest path through the network
- c. Network path with the most difficult activities
- d. Network path using the most resources

Question 30

Not yet answered

Marked out of 1

Flag question

The amount of time an activity can be delayed and yet not delay the project is termed:

Select one:

- a. Total slack
- b. Free slack
- c. Critical float
- d. Float pad
- e. Slip pad

Question 7

Not yet answered

Marked out of 1

Flag question

In which of the following stages is a major portion of the physical and mental project work performed?

Select one:

- a. Conceptualizing
- b. Defining
- c. Planning
- d. Executing
- e. Delivering

Clear my choice

Final Exam

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c. The team can not take decision

Clear my choice

Question 13

Not yet answered

Marked out of 3

Flag question

Given the following information in the Table below:

Activity ID	Activity predecessor	Time
A	None	2
B	A	5
C	A	13
D	A	10
E	B, C	18
F	B, C	7
G	F	3
H	D, E, G	9

On a separate paper, draw a project network. Complete the forward and backward pass, compute activity slack, and de... hangouts.google.com is sharing a window. Stop sharing Hide ...omplete the table provided below.

acer

Final Exam

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c. The team can not take decision

Clear my choice

Question 13

Not yet answered

Marked out of 3

Flag question

Given the following information in the Table below:

Activity ID	Activity predecessor	Time
A	None	2
B	A	5
C	A	13
D	A	10
E	B, C	18
F	B, C	7
G	F	3
H	D, E, G	9

On a separate paper, draw a project network. Complete the forward and backward pass, compute activity slack, and de... hangouts.google.com is sharing a window. Stop sharing Hide ...omplete the table provided below.

acer

Select one:

- a. The completion date
- b. Project quality
- c. The budget

Question **2**

Not yet answered

Marked out of 1

Flag question

If resources are not adequate to meet peak demands, the resulting reschedule is termed:

Select one:

- a. Time-constrained scheduling
- b. Resource-constrained scheduling
- c. Mandatory leveling
- d. Project resource adjustment

Question **3**

Not yet answered

Marked out of 1

Activity ID	ES	EF	LS	LF	SLK (Start)	SLK (Finish)
A	0	4	16	20	16	16
B	0	14	22	30	22	16
C	14	24	65	75	51	51
D	14	19	30	35	16	16
E	29	34	75	80	46	46
F	19	49	35	65	16	16
G	10	90	70	90	60	0
H	49	59	80	90	31	31

Question 15

Not yet answered

Marked out of

Given the following project data, draw an AON network for the project. Use the PERT technique to answer the following and p

1. Compute the expected tim

Activity ID	ES	EF	LS	LF	SLK (Start)	SLK (Finish)
A	0	4	16	20	16	16
B	0	14	22	30	22	16
C	14	24	65	75	51	51
D	14	19	30	35	16	16
E	29	34	75	80	46	46
F	19	49	35	65	16	16
G	10	90	70	90	60	0
H	49	59	80	90	31	31

Question 15

Not yet answered

Marked out of

Given the following project data, draw an AON network for the project. Use the PERT technique to answer the following and p

1. Compute the expected tim

Activity ID	ES	EF	LS	LF	SLK (Start)	SLK (Finish)
A	0	4	16	20	16	16
B	0	14	22	30	22	16
C	14	24	65	75	51	51
D	14	19	30	35	16	16
E	29	34	75	80	46	46
F	19	49	35	65	16	16
G	10	90	70	90	60	0
H	49	59	80	90	31	31

Question 15

Not yet answered

Marked out of

Given the following project data, draw an AON network for the project. Use the PERT technique to answer the following and p

1. Compute the expected tim

11. If time and costs are important to a project the top-down approach in estimating time and costs for the project is the best choice.

12. The critical path is the shortest path through a network and indicates activities that cannot be delayed without delaying the project.

13. If testing cannot be completed any earlier than four days after the previous task, the type of lag that exists is Finish to Finish.

14. The WBS identifies dependencies, the sequencing of activities, and the timing of activities.

15. In a process-break-down structure, the project is organized around phases or groups of activities rather than the more conventional deliverables.

16. If a project criterion indicates that the project must meet a specified date, that criterion is classified as constrained.

17. Consensus method is a top-down method used when projects closely follow past projects in features and costs and results in costs being assigned by percentages to major segments of the project.

18. The forward pass in project network calculations determines the earliest times activities can be finished.

19. You are more likely to find status reports, many changes and the creation of forecasts in the planning stage of the project life cycle.

20. The first step in creating the necessary information to manage a project is to verify the budget available.

Q1:

State if the statement is true or false:

1. The salary of the project manager and temporary rental space for the project team w be classified as General and Administrative overhead costs.
2. An expected output over the life of a project would be classified as milestone
3. When estimating the time and cost of work packages, estimates should include a level of contingency.
4. The tendency to over-estimate project time and cost in order to improve the likelihood of meeting the estimates is known as scope creep.
5. Ali is forecasting the time and cost of delivering a customized software program by looking at the number of inputs, outputs, inquiries, files and interfaces. He is using the Template method.
6. Free slack is the amount of time an activity can be delayed without delaying any immediately following (successor) activity.
7. Concurrent engineering is a good example of good use of start to start lags.
8. Significant events in a project that occur at a specific point in time, are natural control points, and are easily recognized by project participants are known as cost accounts.
9. The gradual expansion of project requirements during the execution of project is known as padding.
10. A typical responsibility matrix will include not only those responsible for a specific task but also those who supply support and assistance.

Question 15
Not yet answered
Marked out of 5
Flag question

Given the following project data, draw an AON network for the project. **Use the PERT technique to answer the following and put your answers in the provided table below:**

1. Compute the expected time for each activity.
2. Compute the variance for each activity.
3. What is the expected project duration (T_E)?
4. What is the variance of the project duration?
5. What is the probability that the project will be completed before a scheduled time (T_S) of 30?
6. What is the probability that the project will be completed after a scheduled time (T_S) of 20?

		Time in work days		
Activity	Predecessor	Optimistic	Most likely	Pessimistic
A	None	4	7	10
B	None	2	4	6
C	None	2	5	8
D	A, B	4	7	10
E				

Question 15
Not yet answered
Marked out of 5
Flag question

Given the following project data, draw an AON network for the project. **Use the PERT technique to answer the following and put your answers in the provided table below:**

1. Compute the expected time for each activity.
2. Compute the variance for each activity.
3. What is the expected project duration (T_E)?
4. What is the variance of the project duration?
5. What is the probability that the project will be completed before a scheduled time (T_S) of 30?
6. What is the probability that the project will be completed after a scheduled time (T_S) of 20?

		Time in work days		
Activity	Predecessor	Optimistic	Most likely	Pessimistic
A	None	4	7	10
B	None	2	4	6
C	None	2	5	8
D	A, B	4	7	10
E				

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E	B, C	6	9	24
F	D, E	1	7	13

A | B | I

7 | 4

d project duration (T_E)

e of the project duration

bability that the project will be completed before

0

bability that the project will be completed after a

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E	B, C	6	9	24
F	D, E	1	7	13

A | B | I

7 | 4

d project duration (T_E)

e of the project duration

bability that the project will be completed before

0

bability that the project will be completed after a

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e. Quality, resource

Question **8**

Not yet answered

Marked out of 1

Flag question

In reviewing the status of her project with top management, Shirley was told that there only were two programmers that she could use for her project. Her project is _____ constrained.

Select one:

a. Time

b. Quality

c. Performance

d. Resource

e. Cost

Question **9**

Not yet answered

Marked out of 1

Question 17

Not yet answered

Marked out of 5

Flag question

Given the following project data:

a) Compute the slope and maximum crash time for each activity

b) Compute the total direct cost for each project duration

c) If the indirect cost for each project duration are $200 (25 time units), $150 (24 time units), $100 (23 time units) and $50 (22 time units), compute the total project cost for each duration and write it in Table 2

d) What is the optimum cost-time schedule for the project?

Then use the results to complete the tables provided below.

Activity ID	Direct cost	
	Normal	Crash

Question 17

Not yet answered

Marked out of 5

Flag question

Given the following project data:

a) Compute the slope and maximum crash time for each activity

b) Compute the total direct cost for each project duration

c) If the indirect cost for each project duration are $200 (25 time units), $150 (24 time units), $100 (23 time units) and $50 (22 time units), compute the total project cost for each duration and write it in Table 2

d) What is the optimum cost-time schedule for the project?

Then use the results to complete the tables provided below.

Activity ID	Direct cost	
	Normal	Crash

Question 12

Not yet answered

Marked out of 2

Flag question

You are the head of the project selection team at Company X. Your team is considering Project A. Based on past history, Company X expects at least a rate of return of 20 percent. Given the following information for Project A, what should be your team decision based on return on investment?

Year	Investment	Revenue stream
0	$600,000	0
1		60,000
2		150,000
3		350,000

Select one:

- a. Reject to fund Project A
- b. Accept to fund Project A
- c. The team can not take decision

Clear my choice

Question 13

Question 12

Not yet answered

Marked out of 2

Flag question

You are the head of the project selection team at Company X. Your team is considering Project A. Based on past history, Company X expects at least a rate of return of 20 percent. Given the following information for Project A, what should be your team decision based on return on investment?

Year	Investment	Revenue stream
0	$600,000	0
1		60,000
2		150,000
3		350,000

Select one:

- a. Reject to fund Project A
- b. Accept to fund Project A
- c. The team can not take decision

Clear my choice

Question 13

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Technology

Q3: (10 marks)

a) Use the information in Table 1 to draw the project network using the activity-on-node approach.

b) Complete the early, late, and slack times for each activity.

c) Identify the critical path (draw blue zigzag on the critical path).

Table 1

ID	Duration	Finish-to-Start predecessor	Finish-to-Start lag	Additional relationships	lag
A	10	None	0	None	
B	15	None	0	Start-to-finish B to C	0
C	10	None	0	Start-to-start C to G	15
D	10	A	0	None	15
E	10	C	**15**	None	0
F	10	D, E	0	Finish-to-finish F to G	0
G	10	None	0	None	10
H	20	F	0	None	0
I	10	E	0	None	0

Question 14

Not yet answered

Marked out of 4

Flag question

Given the following information in the Table below:

ID	Duration	Finish-to-Start predecessor	Finish-to-Start lag	Additional relationships	lag
A	4	None	0	Finish-to-finish A to B	10
B	8	None	0	Start-to-start B to G	10
C	10	A, B	0	None	0
D	5	B	0	Start-to-start D to E	15
E	5	C	0	None	0
F	30	D	0	Finish-to-finish F to G	20
G	80	None	0	None	0
H	10	E, F	0	None	0
I	10	F	15	None	0

On a separate paper, draw a project network. Complete the forward and backward pass, compute activity slack, and de... the table provided below.

Question 14

Not yet answered

Marked out of 4

Flag question

Given the following information in the Table below:

ID	Duration	Finish-to-Start predecessor	Finish-to-Start lag	Additional relationships	lag
A	4	None	0	Finish-to-finish A to B	10
B	8	None	0	Start-to-start B to G	10
C	10	A, B	0	None	0
D	5	B	0	Start-to-start D to E	15
E	5	C	0	None	0
F	30	D	0	Finish-to-finish F to G	20
G	80	None	0	None	0
H	10	E, F	0	None	0
I	10	F	15	None	0

On a separate paper, draw a project network. Complete the forward and backward pass, compute activity slack, and de... the table provided below.

Question 13

Not yet answered

Marked out of 3

Flag question

Given the following information in the Table below:

Activity ID	Activity predecessor	Time
A	None	2
B	A	5
C	A	13
D	A	10
E	B, C	18
F	B, C	7
G	F	3
H	D, E, G	9

On a separate paper, draw a project network. Complete the forward and backward pass, compute activity slack, and determine the project duration. Then, use the results to complete the table provided below.

Question 13

Not yet answered

Marked out of 3

Flag question

Given the following information in the Table below:

Activity ID	Activity predecessor	Time
A	None	2
B	A	5
C	A	13
D	A	10
E	B, C	18
F	B, C	7
G	F	3
H	D, E, G	9

On a separate paper, draw a project network. Complete the forward and backward pass, compute activity slack, and determine the project duration. Then, use the results to complete the table provided below.

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Question 18

Not yet answered

Marked out of 5

Flag question

The following labor hours data have been collected for a nanotechnology project for periods 1 through 5.

SCHEDULE INFORMATION						BASELINE BUDGET NEEDS -- LABOR HOURS (00)														
ACTIWP	DUR	ES	LF	SL	TOTAL PV	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	0	2	0	20	10	10													
2	2	2	7	3	24			16	8											
3	6	2	11	3	30			5	5	10	3	2	5							
4	5	2	7	0	25			10	10	2	2	1								
5	4	4	11	3	16					4	4	4	4							
6	4	7	11	0	20								5	5	6	4				
7	2	11	13	0	10												5	5		
TOTAL PV BY PERIOD						10	10	31	23	16	9	7	14	5	6	4	5	5		
CUMULATIVEPV BY PERIOD						10	20	51	74	90	99	106	120	125	131	135	140	145		

a) On a separate paper, develop status reports for period 4 and period 5 using the templates provided below.

b) Compute SPI, CPI and PCI

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Question 18

Not yet answered

Marked out of 5

Flag question

The following labor hours data have been collected for a nanotechnology project for periods 1 through 5.

SCHEDULE INFORMATION						BASELINE BUDGET NEEDS -- LABOR HOURS (00)														
ACTIWP	DUR	ES	LF	SL	TOTAL PV	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	0	2	0	20	10	10													
2	2	2	7	3	24			16	8											
3	6	2	11	3	30			5	5	10	3	2	5							
4	5	2	7	0	25			10	10	2	2	1								
5	4	4	11	3	16					4	4	4	4							
6	4	7	11	0	20								5	5	6	4				
7	2	11	13	0	10												5	5		
TOTAL PV BY PERIOD						10	10	31	23	16	9	7	14	5	6	4	5	5		
CUMULATIVEPV BY PERIOD						10	20	51	74	90	99	106	120	125	131	135	140	145		

a) On a separate paper, develop status reports for period 4 and period 5 using the templates provided below.

b) Compute SPI, CPI and PCI

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answered

Marked out of 3

Flag question

Activity ID	Activity predecessor	Time
A	None	2
B	A	5
C	A	13
D	A	10
E	B, C	18
F	B, C	7
G	F	3
H	D, E, G	9

On a separate paper, draw a project network. Complete the forward and backward pass, compute activity slack, and determine the project duration. Then, use the results to complete the table provided below.

C	2	15	
D	2	12	

answered

Marked out of 3

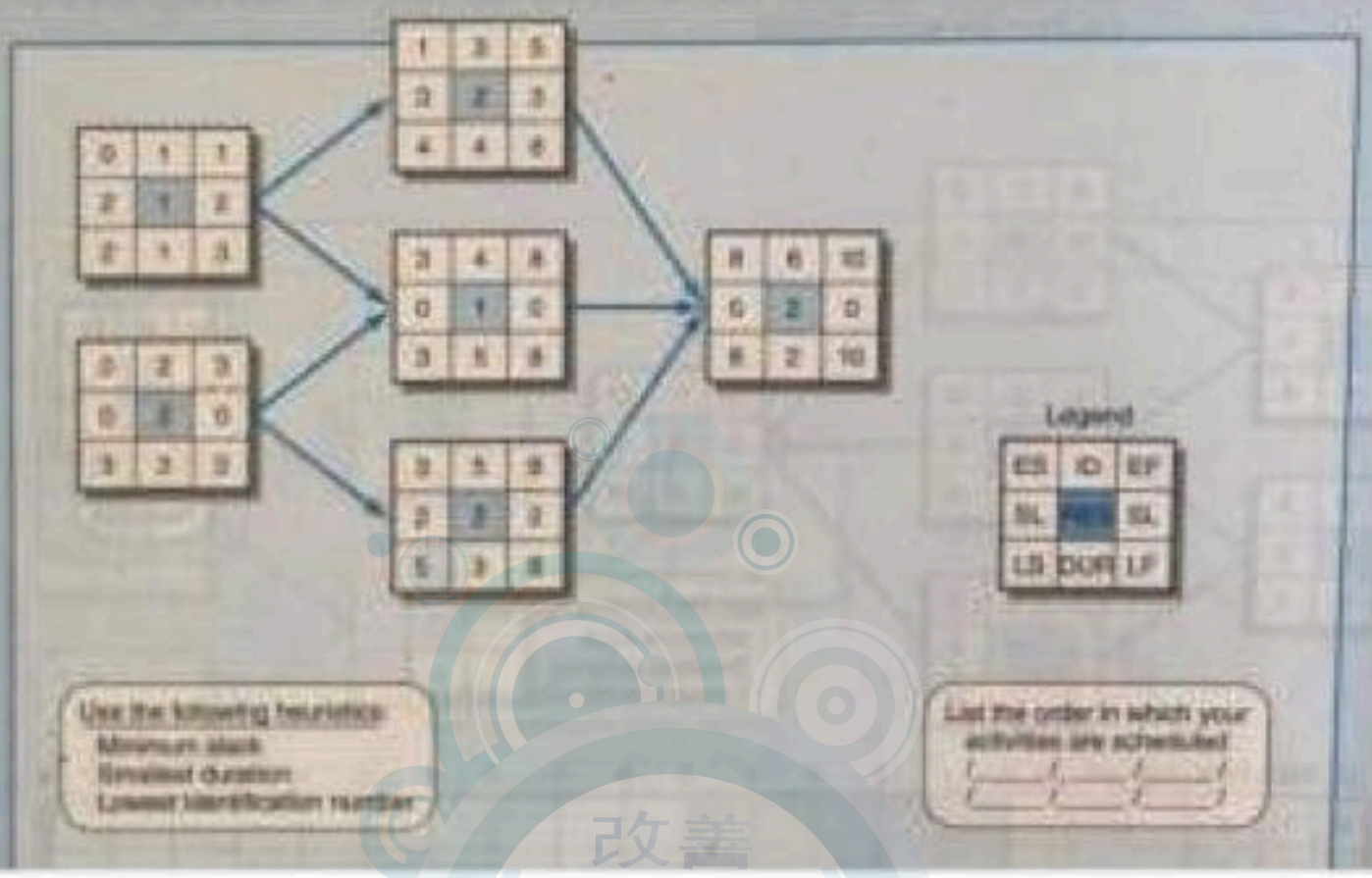
Flag question

Activity ID	Activity predecessor	Time
A	None	2
B	A	5
C	A	13
D	A	10
E	B, C	18
F	B, C	7
G	F	3
H	D, E, G	9

On a separate paper, draw a project network. Complete the forward and backward pass, compute activity slack, and determine the project duration. Then, use the results to complete the table provided below.

C	2	15	
D	2	12	

5. Develop a resource schedule in the loading chart that follows. Use the parallel method and heuristics given. Be sure to update each period as the computer would do. Note: activities 2, 3, 5, and 6 use two of the resource skills. Three of the resource skills are available. How has slack changed for each activity? Has the risk of being late changed? How?



Solve the problem on a separate paper. Then, use the results to complete the table provided below, save the file and then submit it on E-learning.

Student Name	
Registration number	

Activity	Start	Finish
1		
2		
3		
4		
5		
6		

Project duration after scheduling resources	

Marked out of 1

Flag question

When developing a new software package, the software must be designed, the code must be written, and the code must be tested. This is an example of a _____ constraint.

Select one:

a. Time

b. Physical

c. Schedule

d. Technical

e. Resource

Finish attempt ...

Quiz navigation

Select one:

- a. Quality, cost
- b. Cost, time
- c. Time, quality
- d. Time, resource
- e. Quality, resource

Question **8**

Not yet answered

Marked out of 1

Flag question

In reviewing the status of her project with top management, Shirley was told that there only were two programmers that she could use for her project. Her project is _____ constrained.

Select one:

- a. Time
- b. Quality
- c. Performance
- d. Resource

Question 16

Not yet answered

Marked out of 5

Flag question

Develop a resource schedule in the loading chart
complete the table provided below.

Use the parallel method and the following heuristi

- Minimum slack
- Smallest duration
- Lowest identification number

Note: three of the resource skills are available.

Question 16

Not yet answered

Marked out of 5

Flag question

Develop a resource schedule in the loading chart
complete the table provided below.

Use the parallel method and the following heuristi

- Minimum slack
- Smallest duration
- Lowest identification number

Note: three of the resource skills are available.

Question 1

Not yet answered

Marked out of 1

Flag question

In a resource-constrained project, which of the following is most likely to be changed?

Select one:

- a. The completion date
- b. Project quality
- c. The budget

Question 2

Not yet answered

Marked out of 1

Flag question

C	2	15	2	15	0	0
D	2	12	23	33	21	21
E	15	33	15	33	0	0
F	15	22	23	30	8	8
G	22	25	30	33	8	8
H	33	42	33	42	0	0

42

Project Duration

Question 14

Not yet answered

Marked out of 4

Flag question

Given the following information in the Table below:

ID	Duration	Finish-to-Start predecessor	Finish-to-Start lag	Additional relationships	lag
A	4	None			
B	F	None			

C	2	15	2	15	0	0
D	2	12	23	33	21	21
E	15	33	15	33	0	0
F	15	22	23	30	8	8
G	22	25	30	33	8	8
H	33	42	33	42	0	0

42

Project Duration

Question 14

Not yet answered

Marked out of 4

Flag question

Given the following information in the Table below:

ID	Duration	Finish-to-Start predecessor	Finish-to-Start lag	Additional relationships	lag
A	4	None			
B	F	None			

Question **4**

Not yet answered

Marked out of 1

Flag question

Which of the following is not one of the types of project constraints?

Select one:

- a. Time
- b. Resource
- c. Technical
- d. Physical
- e. All of these are types of project constraints

Question **5**

Not yet answered

Marked out of 1

Flag question

All resource leveling techniques involve:

Select one:

Not yet answered

Marked out of 1

Flag question

If resources are not adequate to meet peak demands, the resulting reschedule is termed:

Select one:

- a. Time-constrained scheduling
- b. Resource-constrained scheduling
- c. Mandatory leveling
- d. Project resource adjustment

Question 3

Not yet answered

Marked out of 1

Flag question

Delaying noncritical activities to lower peak demand on resources is known as resource:

Select one:

- a. Effectiveness

Given the following information in the Table below:

Activity ID	Activity predecessor	Time
A	None	2
B	None	2
C	A	4
D	B	6

On a separate paper, draw a project network. Complete the forwa

What is the value of (LS) for activity A, B, C, and D?

(write the result in the space provided below)

Activity ID	LS
A	4
B	0
C	6
D	2

earch

G STRIX

Given the following information in the Table below:

Activity ID	Activity predecessor	Time
A	None	2
B	None	2
C	A	4
D	B	10

On a separate paper, draw a project network. Complete the forw

What is the value of (LS) for activity A, B, C, and D?

(write the result in the space provided below)

Activity ID	LS
A	
B	
C	
D	

is a tractor

Activity ID	Activity predecessor	Time	Number of tractors (Resource)
A	None	2	3
B	None	2	3
C	A, B	1	2

Three tractors are available for the project. Develop a resource schedu
Use the parallel method and the following heuristics:

- Minimum slack
- Smallest duration
- Lowest identification number

(write the result in the space provided below)

Activity	Start (After Scheduling)	Finish (After Scheduling)
A		
B		
C		

en the following information in the Table below:

ctivity ID	Activity predecessor	Time
A	None	10
B	None	5
C	A, B	20
D	B	5

a separate paper, draw a project network. Complete the forward and

What is the value of (Total slack) for activity **D**?

What is the value of (Free slack) for activity **B**?

rite the result in the space provided below)

A B I

(Total slack) for activity D	20
(Free slack) for activity B	0

RIX

For a project, the expected project duration (T_E) is **120** and the sum of variances for the critical path activities is **25**

a) What is the probability that the project will be completed before a scheduled time (T_S) of 125?

b) What is the probability that the project will be completed after a scheduled time (T_S) of 118?

(write the result in the space provided below)

a)

b)

Given the following information in the Table below:

Activity ID	Activity predecessor	Time
A	None	2
B	None	2
C	A	4
D	B	10

On a separate paper, draw a project network. Complete the fo

What is the value of (LS) for activity A, B, C, and D?

(write the result in the space provided below)

Activity ID	LS
A	2
B	2
C	6
D	12

For a project, the expected project durati
activities is **25**

a) What is the probability that the proje

b) What is the probability that the projec

(write the result in the space provided belo

A B I

a) 0.78

b) 0.74

B	60%	-----	100	-----	-----	Time
C	40%	-----	170	-----	-----	-----
D	50%	-----	500	-----	-----	-----
Cumulative Totals		-----	-----	-----	-----	-----

Complete the status report for period 4.

a) What is SPI, CPI and PCIB for period 4?

b) What is your assessment of the project at the end of period 4?

(write the result in the space provided below)

Period	SPI	CPI	PCIB
4			

Write your assessment of the project at the end of period 4

Given the following project data:

Activity ID	Direct cost			
	Normal		Crash	
	Time	Cost	Time	Cost
A	4	220	3	260
B	16	50	13	60
C	7	220	7	220
D	8	230	4	262

a) What is the slope for activity A?

b) What is the maximum crash time for activity B?

(write the result in the space provided below)

Slope for activity A

Maximum crash time for activity B

For a project, the expected project duration (T_E) is 120 and the sum of variances for the critical path activities is 25

a) What is the probability that the project will be completed before a scheduled time (T_S) of 128?

b) What is the probability that the project will be completed after a scheduled time (T_S) of 116?

(write the result in the space provided below)

a)

b)

Given the following information about a project in which the key resource is a tractor

Time left 0:11:09

Activity ID	Activity predecessor	Time	Number of tractors (Resource)
A	None	1	3
B	None	2	3
C	A, B	2	2

Three tractors are available for the project. Develop a resource schedule. Use the parallel method and the following heuristics:

- Minimum slack
- Smallest duration
- Lowest identification number

(write the result in the space provided below)

Activity	Start (After Scheduling)	Finish (After Scheduling)
A	0	2
B	2	4
C	4	5

Question 2

Not yet answered

Marked out of 12

Flag question

The following labor hours data have been collected for a nanotechnology project for periods 1 through 5.

SCHEDULE INFORMATION						BASELINE BUDGET NEEDS -- LABOR HOURS (00)														
ACTI WP	DUR	ES	LF	SL	TOTAL PV	TIME PERIOD 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	0	2	0	20	10	10													
2	2	2	7	3	24			16	8											
3	6	2	11	3	30			5	5	10	3	2	5							
4	5	2	7	0	25			10	10	2	2	1								
5	4	4	11	3	16					4	4	4	4							
6	4	7	11	0	20								5	5	6	4				
7	2	11	13	0	10												5	5		
TOTAL PV BY PERIOD						10	10	31	23	16	9	7	14	5	6	4	5	5		
CUMULATIVEPV BY PERIOD						10	20	51	74	90	99	106	120	125	131	135	140	145		

a) On a separate paper, develop status reports for period 4 and period 5 using the templates provided below.

Question **5**

Not yet answered

Marked out of 4

Flag question

Given the following project data.

Activity	Predecessor	Time in work days		
		Optimistic	Most likely	Pessimistic
A	None	2	4	6
B	A	2	5	8
C	B	4	7	10
D	B, C	4	7	10

Use the PERT technique to answer the following:

1. Compute the expected time for (**activity B**).
2. Compute the variance for (**activity C**).

(write the result in the space provided below)

Expected time for (activity B)

Variance for (activity C)

Given the following project data.

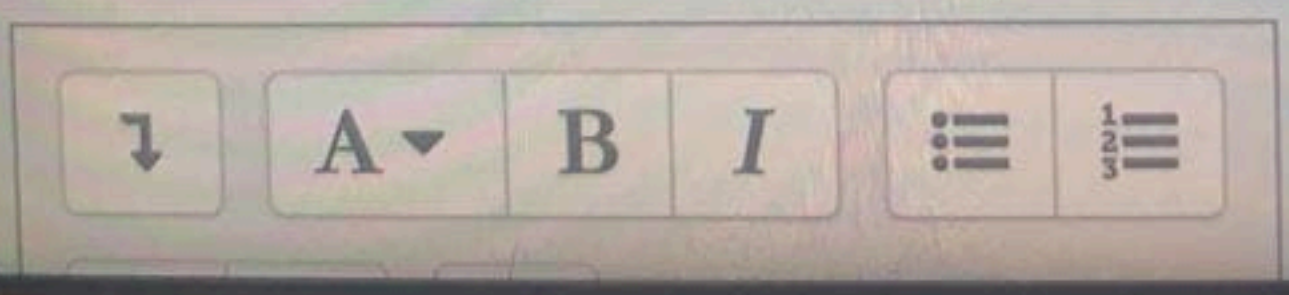
Activity	Predecessor	Time in work days		
		Optimistic	Most likely	Pessimist
A	None	2	5	8
B	A	4	7	10
C	B	2	4	6
D	B, C	4	7	10

Use the PERT technique to answer the following:

1. Compute the expected time for (activity B).

2. Compute the variance for (activity C).

(write the result in the space provided below)



Question 4
Not yet answered
Marked out of 2
Flag question

Given the following information in the risk assessment form below:

Risk event	Likelihood	Impact	Detection difficulty
Machine malfunction	4	4	3
Worker absence	5	2	3
Bad weather	3	2	2
Material defect	2	5	4

What is risk value for the risk event (Bad weather)?
(write the result in the space provided below)

Risk value

Given the following information in the risk assessment form below:

Risk event	Likelihood	Impact	Detection difficulty
Machine malfunction	4	4	3
Worker absence	5	2	3
Bad weather	3	2	2
Material defect	2	5	4

What is risk value for the risk event (Material defect)?

(write the result in the space provided below)

Risk value

about a project

Activity ID	Activity predecessor	Time
A	None	4
B	None	3
C	A, B	1

Cost by Week ($)				
ID	← 1	← 2	← 3	← 4
A	10	10	10	10
B	25	25	25	
C	30			

Develop the baseline budget for the project

(write the result in the space provided below)

Indexes

Period	SPI	CPI	PCIB
4			
5			

Write your assessment of the project at

Question 2

Not yet answered

Marked out of 13

Flag question

Given the following project data, draw an AON network for the project. Use the PERT technique to

+

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Given the following information in the Table below:

ID	Duration	Finish-to-Start predecessor	Finish-to-Start lag	Additional relationships	lag
A	2	None	0	Start-to-Start A to B	5
B	3	None	0	Finish-to-finish B to C	5
C	5	A	0	None	0
D	20	B	0	None	0

On a separate paper, draw a project network. Complete the forward and backward pa

What is the value of (LS) for activity A, B, C, and D?

(write the result in the space provided below)

Activity ID	LS
A	0
B	5
C	23
D	8

STRIX

Given the following information in the Table below:

Activity ID	Activity predecessor	Time
A	None	10
B	None	5
C	A, B	10
D	B	5

On a separate paper, draw a project network. Complete the forward and backward pass.

a) What is the value of (Total slack) for activity D?

b) What is the value of (Free slack) for activity B?

(write the result in the space provided below)

(Total slack) for activity D

(Free slack) for activity B

Question **2**

Not yet answered

Marked out of 4

Flag question

Time left 0:38:12

Given the following information in the Table below:

ID	Duration	Finish-to-Start predecessor	Finish-to-Start lag	Additional relationships	lag
A	2	None	0	Start-to-Start A to B	5
B	3	None	0	Finish-to-finish B to C	5
C	5	A	0	None	0
D	15	B	0	None	0

On a separate paper, draw a project network. Complete the forward and backward pass.

What is the value of (LS) for activity A, B, C, and D?

(write the result in the space provided below)

Activity ID	LS
A	6
B	5
C	8
D	8

1 2 7 8 13

Finish attem

ne following information in the risk assessment form below:

Risk event	Likelihood	Impact	Detection difficulty
hine malfunction	4	4	3
orker absence	5	2	3
Bad weather	3	2	2
Material defect	2	5	4

hat is risk value for the risk event (Bad weather)?

vrite the result in the space provided below)

Risk value

PROJECT MANAGEMENT

Final Exam Final Exam

Time left 0:16:26

uestion 6

ot yet answered

larked out of 2

Flag question

Given the following project data

		Time in work days				
Activity	Predecessor	Optimistic	Most likely	Pessimistic	Activity time (t_e)	Variance
A	None	18	27	30	26	4
B	A	30	30	30	30	0
C	A	60	72	90	73	25
D	A	16	19	28	20	4
E	B, C, D	17	29	47	30	25

Use the PERT technique to answer the following:

What is the expected project duration (T_E)?

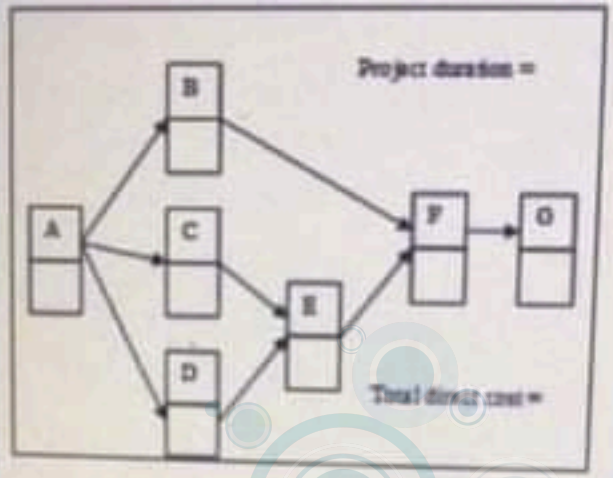
(write the result in the space provided below)

A B I

Activity ID	Activity predecessor	Time
A	None	2
B	None	2
C	A	4
D	B	10

On a separate paper, draw a project network. Complete the forward and back
What is the value of (LS) for activity A, B, C, and D?
(write the result in the space provided below)

Activity ID	LS
A	6
B	0
C	8
D	2



duration	cost	cost	cost
25	1230	200	1430
24	1235	150	1385
23	1253	100	1353
22	1313	50	1363

optimum cost-time schodule 1353

Not yet answered

Marked out of 2

Flag question

One of the major risks identified for a project is getting material with defects. Suggest an action that you will take as a project manager if your response to this risk is avoiding.

Time left 0:13:03

Given the following project data

		Time in work days				
Activity	Predecessor	Optimistic	Most likely	Pessimistic	Activity time (t_e)	Variance
A	None	16	19	28	20	4
B	A	30	30	30	30	0
C	A	60	72	90	73	25
D	A	18	27	30	26	4
E	B, C, D	17	29	47	30	25

Use the PERT technique to answer the following:

What is the expected project duration (T_E)?

(write the result in the space provided below)

Expected project duration (T_E)

Time left 0:12:18

For a project, the expected project duration (T_E) is **120** and the sum of variances for the critical path activities is **25**

a) What is the probability that the project will be completed before a scheduled time (T_S) of 125?

b) What is the probability that the project will be completed after a scheduled time (T_S) of 118?

(write the result in the space provided below)

a)	0.78
b)	0.74

Given the following information in the risk assessment form below:

Risk event	Likelihood	Impact	Detection difficulty
Machine malfunction	4	4	3
Worker absence	5	2	3
Bad weather	3	2	2
Material defect	2	5	4

What is risk value for the risk event (Worker absence)?

(write the result in the space provided below)

Risk value	30

3

Time

Given the following information in the Table below:

Activity ID	Activity predecessor	Time
A	None	10
B	None	5
C	A, B	20
D	B	5

On a separate paper, draw a project network. Complete the forward and backward pass

a) What is the value of (Total slack) for activity D?

b) What is the value of (Free slack) for activity B?

(write the result in the space provided below)

(Total slack) for activity D	20
(Free slack) for activity B	0

PM Full Notes.Image.Marked.pdf | 1test_bank_with_answers_for_pr | Final Exam (page 6 of 13)

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answered

Marked out of 2

Flag question

Activity	Predecessor	Time in work days: Optimistic	Most likely	Pessimistic	Activity time (t_e)	Variance
A	None	30	30	30	30	0
B	A	16	30	30	28	4
C	A	60	19	30	30	25
D	A	18	72	28	30	4
E	B, C, D	17	27	90	20	25
			29	30	73	
				47	26	
				30	30	

Time le

Use the PERT technique to answer the following:

What is the expected project duration (t_E)?

(write the result in the space provided below)

1

A B I

Expected project duration (t_E)

133

I

Given the following information in the risk assessment form below:

Risk event	Likelihood	Impact	Detection difficulty
Machine malfunction	4	4	3
Worker absence	5	2	3
Bad weather	3	2	2
Material defect	2	5	4

What is risk value for the risk event (Material defect)?

(write the result in the space provided below)

Risk value

A	None	2
B	None	2
C	A	4
D	B	8

On a separate paper, draw a project network. Complete the forward and backward pass.

What is the value of (LS) for activity A, B, C, and D?

(write the result in the space provided below)

Activity ID	LS
A	4
B	0
C	6
D	2

13

Finish attempt

5	1
7	1
11	9
7	4

roject duration (T_E)=23

f the project duration=9.8994

bility that the project will be completed before a schedule

bility that the project will be completed after a scheduled ti

resource schedule in the loading chart that follows. Then, use

ided below.

b) What is the probability that the project will be completed after a scheduled time (T_S) of 116?

(write the result in the space provided below)

a)

b)

Given the following project data

	Time in work days					
Activity	**Predecessor**	**Optimistic**	**Most likely**	**Pessimistic**	**Activity time (t_e)**	**Variance**
A	None	16	19	28	20	4
B	A	30	30	30	30	0
C	A	60	72	90	73	25
D	A	18	27	30	26	4
E	B, C, D	17	29	47	30	25

Use the PERT technique to answer the following:

What is the expected project duration (T_E)?

(write the result in the space provided below)

Expected project duration (T_E)

a variance for each activity.

expected project duration (T_E)?

variance of the project duration?

probability that the project will be completed before a scheduled ti

probability that the project will be completed after a scheduled tim

		Time in work days		
Activity	Predecessor	Optimistic	Most likely	Pessimistic
A	None	4	7	10
B	None	2	4	6
C	None	4	5	8
D	A,B	7	7	10
E	B,C	8	8	24
F	D,E	7	7	13

Given the following project data.

		Time in work days		
Activity	Predecessor	Optimistic	Most likely	Pessimistic
A	None	4	7	10
B	A	2	4	6
C	B	2	5	8
D	B, C	4	7	10

Use the PERT technique to answer the following:

1. Compute the expected time for (**activity B**).
2. Compute the variance for (**activity C**).

(write the result in the space provided below)

Expected time for (**activity B**)	4
Variance for (**activity C**)	1