

Solution for Week 1: Assignm..



Assignment -1

1. Developing a technology is an example of
 - a. Process
 - b. Project
 - c. Scope
 - d. All of the above
2. Following is(are) the responsibility(ies) of the project manager.
 - a. Budgeting and cost control
 - b. Allocating resources
 - c. Tracking project expenditure
 - d. All of the above
3. Project performance consists of
 - a. Time
 - b. Cost
 - c. Quality
 - d. All of the above
4. Project and organizational strategy is nothing but science of
 - a. Formulation to achieve objective
 - b. Implementation to achieve objective
 - c. Evaluating cross functional decisions to achieve objective
 - d. All of the above
5. What are the criteria on which a project is evaluated
 - a. Time and Cost
 - b. Cost and Performance
 - c. Performance only
 - d. Time, Cost and performance
6. What are the determinants of a project success?
 - a. Scope, Performance, Time, Client acceptance
 - b. Performance Time, Cost/Budget
 - c. Time, Scope, Performance, Cost/Budget
 - d. Scope, Cost/Budget, Performance, Time, Client acceptance
7. Project success includes the dimensions such as
 - a. Project efficiency, Impact on customers, Business success, Future preparation
 - b. Project efficiency, Impact on customers
 - c. Project efficiency, Impact on customers, Business success
 - d. Impact on customers, Business success, Future preparation

← Solution for Week 1: Assignm.. ↻



8. If project is organized as a weak matrix, the project manager seeks a commitment of work from the

- a. Personnel's
- b. Functional Departments
- c. Subcontractors
- d. Senior Manager

9. The entire process of a project may be considered to be made up of a number of sub processes placed in different stages called the

- a. Technical key resources
- b. Work key structure
- c. Work Breakdown Structure (WBS).
- d. None of the above

10. Following are the characteristics of Project Mindset.

- a. Time, Responsiveness, Information sharing, Processes, structured planning
- b. Time, Project management, Information sharing, Processes, structured planning
- c. Time, Responsiveness, Information sharing, capability, structured planning
- d. Time, Responsiveness, Information sharing, Processes, project planning

← Solution for Week 2: Assignm.. ↻

Assignment -2

1. Which project is not based on risk?
 - a. Greenfield
 - b. Brownfield
 - c. Cooperative
 - d. Divestment
2. Which are the essential parts in the brown field project?
 - a. Expansion, vertical integration, and Diversification
 - b. Vertical integration and Diversification
 - c. Diversification and Expansion
 - d. None of the above
3. A green field project is a project when you
 - a. Finish a project
 - b. Continue with the same project
 - c. Start a new project
 - d. Diversify a project
4. Steel industry moves for manufacturing of steel pipes is an example of
 - a. Forward integration
 - b. Backward integration
 - c. Horizontal integration
 - d. None of the above
5. Upstream expansion is called
 - a. Forward integration
 - b. Backward integration
 - c. Horizontal integration
 - d. None of the above
6. Conceptual phase and definition phase are an integral part of
 - a. Planning and organizing phase
 - b. Implementation phase
 - c. Initiation phase
 - d. Project clean up phase
7. Selection of a project is broadly a function of
 - a. Risk, Returns and Resources
 - b. Risk and Returns
 - c. Risk only
 - d. Return only
8. During brainstorming session, the management has to be
 - a. Receptive
 - b. Vision for future growth



← Solution for Week 2: Assignm.. ↻

7. Selection of a project is broadly a function of

- a. Risk, Returns and Resources
- b. Risk and Returns
- c. Risk only
- d. Return only

8. During brainstorming session, the management has to be

- a. Receptive
- b. Vision for future growth

c. Keep long term objectives in mind

d. All of the above

9. Boston consultancy group matrix give idea where there is a lack

- a. In portfolio
- b. Of returns
- c. Of resources
- d. None of the above

10. Boston consultancy group matrix is basically an order of

- a. 5*5
- b. 4*4
- c. 3*3
- d. 2*2



Solution fro Assignment 3



Assignment -3

1. How many types of attributes are considered in TOPSIS?
 - a. 3
 - b. 2
 - c. 4
 - d. 5
2. Two artificial alternative solutions are considered in
 - a. AHP
 - b. TOPSIS
 - c. ANPANP
 - d. DEMATEL
3. TOPSIS method selects the alternative that is
 - a. Closest to the ideal solution
 - b. Farthest from the negative ideal solutions
 - c. Both (a) and (b)
 - d. None of the above
4. Which is not the quantitative method of demand forecasting?
 - a. Jury of executive method
 - b. Moving average method
 - c. Time projection method
 - d. Exponential smoothing method
5. Which is the causal method of demand forecasting?
 - (a) Delphi technique
 - (b) Jury of executive method
 - (c) Exponential smoothing method
 - (d) Econometric analysis
6. Econometric forecasts require
 - a. accurate estimates of the coefficients of structural equations.
 - b. forecasts of future values of exogenous variables.
 - c. appropriate theoretical models.



Solution fro Assignment 3



- d. all of the above.
- 7. Which of the following is not a qualitative forecasting technique?
 - a. Surveys of consumer expenditure plans
 - b. Time-series analysis
 - c. Perspectives of foreign advisory councils
 - d. Consumer intention polling
- 8. Which is not a type of forecasting method?
 - a. Qualitative method
 - b. Quantitative method
 - c. MCDM method
 - d. Causal method
- 9. Equal weightages to all the data points are given in
 - a. Moving average method
 - b. Exponential smoothing method
 - c. Both (a) and (b)
 - d. None of the above
- 10. In which method the weightage given to the older data points decreases?
 - a. Moving average method
 - b. Exponential smoothing method
 - c. Both (a) and (b)
 - d. None of the above



Solution for Assignment 4



Assignment -4

1. Return on equity measures
 - a. Overall return on overall investment
 - b. Return for stakeholders
 - c. Profitability in its gross terms
 - d. Net profit margin

2. Operating profit margin measures
 - a. Overall return on overall investment
 - b. Return for stakeholders
 - c. Profitability in its gross terms
 - d. Net profit margin

3. Capital budgeting is also known as
 - a. Investment decision making
 - b. Planning capital expenditure
 - c. Both of the above
 - d. None of the above

4. capital budgeting decisions are
 - a. Long term nature
 - b. Short term nature
 - c. Both of the above
 - d. None of the above

5. Which of the following methods of capital budgeting is based on cash flows?
 - a. Payback period
 - b. Net present value
 - c. Profitability index
 - d. All of the above



Solution for Assignment 4



6. Which of the following is true for a capital budgeting decision?

- a. Payback period measures true profitability.
- b. Internal rate of return is also known as time adjusted rate of return.
- c. Capital budgeting and capital rationing are same.
- d. Rate of return method takes into account time value of money.

7. Which of the following method takes into account the time value of money?

- a. Payback period
- b. Average rate of return
- c. Internal rate of return
- d. All of the above.

8. Approximately IRR is inverse of

- a. Payback period
- b. Average rate of return
- c. Net present value
- d. None of the above.

9. The rate of discount at which NPV of a project becomes zero is known as

- a. Average rate of return
- b. Internal rate of return
- c. Alternative rate of return
- d. None of the above.

10. Discounted cash flow criteria for investment appraisal do not include:

- a. Net present value
- b. Benefit-cost ratio
- c. Accounting rate of return
- d. Internal rate of return



Solution for Assignment 5



Assignment 5

1. The shortcomings of the sensitivity analysis is

- a) Only one variable is considered
- b) Multiple variables are considered
- c) No variable is considered
- d) None of the above

Answer: a)

2. When do you perform risk identification?

- a) At the beginning of a project.
- b) During project planning.
- c) During the whole lifetime of a project.
- d) During project execution.

Answer: c)

3. Which of these statements about the project risk analysis and management program is best?

- a) Risk management is integrated throughout the project's life cycle.
- b) The risk management strategy should be unwavering throughout the entire project life cycle.
- c) The project manager should choose a small subset of all risk management tools.
- d) Risk management is best handled using an ad hoc approach.

Answer: a)

4. Standalone risk techniques are used for the analysis of

- a) Completed project
- b) Upcoming project
- c) Profitable project
- d) Project at hand only

Answer: d)

5. Which of the following technique is not used for analysing standalone risk/

- a) Break-even analysis
- b) Sensitivity analysis
- c) Simulation analysis



Solution for Assignment 5



d) Corporate risk analysis

Answer: d)

6. The net probability of failure (P_f) is 0.34 and consequences of failure (C_f) is 0.40. Calculate the risk factor (RF)?

a) 0.196

b) 0.604

c) 0.876

d) 0.740

Answer: b)

Solution: $RF = P_f + C_f - (P_f) * (C_f) = 0.34 + 0.40 - (0.34 * 0.40) = 0.604$

7. Which of the following sentence/s are true for the risk management of a project?

a) Properly undertaken of risk management will increase the likelihood of successful completion of a project to cost, time and performance.

b) It involve the initiating further investigations to reduce the uncertainty.

c) due to risk management, increase the understanding of project.

d) All of the above.

Answer: d)

8. For the given project where the probability that the NPV 200 of the project is 0.3. For NPV 600 probability is 0.5 and for NPV 900 probability is 0.2. Find out the final NPV?

a) 540

b) 640

c) 340

d) 440

Answer: a)

Solution : $NPV = 200 * 0.3 + 600 * 0.5 + 900 * 0.2 = 540$

9. For the given project where the probability that the NPV 200 of the project is 0.3. For NPV 600 probability is 0.5 and for NPV 900 probability is 0.2. Find out the range?

a) 400

b) 300

c) 700

d) 200

Answer: c)



Solution for Assignment 5



Answer: d)

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b) 640

c) 340

d) 440

Answer: a)

Solution : $NPV = 200 * 0.3 + 600 * 0.5 + 900 * 0.2 = 540$

9. For the given project where the probability that the NPV 200 of the project is 0.3. For NPV 600 probability is 0.5 and for NPV 900 probability is 0.2. Find out the range?

a) 400

b) 300

c) 700

d) 200

Answer: c)

Solution: Range: $900 - 200 = 700$

10. Hillier model can be used for:

a) Continuous probabilistic events

b) Discontinuous probabilistic events

c) Non-probabilistic events

d) Both a) and b)

Answer: d)



Solution for Assignment 6



Assignment 6

1. Decision points are also called as

- (a) Decision nodes
- (b) Decision networks
- © Decision forks
- (d) None of the above

Answer: C

2. The choice of product mix is guided by

- (a) Market Requirements
- (b) Market Inputs
- © Employee Requirements
- (d) Supplier Requirements

Answer: A

3. Plant capacity refers to

- (a) Area occupied by the plant
- (b) Number of equipment's in the plant
- © Number of units manufactured during a time span
- (d) Number

Answer: c

4. Choose the correct relationship between cost (C) and capacity (Q)

- (a) $C1 = C2 (Q2/Q1)^{\alpha}$
- (b) $C1 = C2 (Q1/Q2)^{\alpha}$
- c) $C2 = C1 (Q1/Q2)^{\alpha}$
- d) $C2 = C1 (Q2/Q1)^{\alpha}$

Answer: d

5. For 1000 units, the investment is Rs. 200000. What would be the investment for 3000 units. Given $\alpha = 0.6$.

- a) 386636
- b) 386000
- c) 486000



Solution for Assignment 6



d) 486636

Answer: a)

6. A thermal power project plant can't be located near sanctuary. Such guidelines are prescribed by

- a) Project financier
- b) client
- c) Government policy
- d) Project beneficiaries

Answer: c)

7. Who creates the project team?

- a) Factory manager
- b) Operation manager
- c) Project manager
- d) Purchase manager

Answer: c)

8. A company takes up a project to upgrade all its machines from conventional machines to high-tech machines. It's ---- type of project.

- a) Balancing
- b) Modernization
- c) Expansion
- d) Backward integration

Answer: b)

9. The selection of location / site is influenced by

- a) Ease of getting raw materials
- b) Ease of labour and infrastructure
- c) Governmental regulations
- d) All of the above

Answer: d)

10. Project Abandonment Analysis is a process that organizations should execute before making decisions

- a) Upon halting of their projects



Solution for Assignment 6



by parameters

- b) Modernization
- c) Expansion
- d) Backward integration

Answer: b)

9. The selection of location / site is influenced by

- a) Ease of getting raw materials
- b) Ease of labour and infrastructure
- c) Governmental regulations
- d) All of the above

Answer: d)

10. Project Abandonment Analysis is a process that organizations should execute before making decisions

- a) Upon halting of their projects

- b) Upon contribution of their projects
- c) Upon halting or continuation of their projects
- d) None of the above

Answer: c)





Solution for Assignment 7



Assignment 7

1. For the effective project teams one should have

- a) Clear sense of mission
- b) Cohesiveness
- c) Trust and result oriented
- d) All of the above

Answer: d)

2. What are the reasons behind the failure of the team

- a) Unclear goals
- b) Poor communication
- c) Dysfunctional behavior
- d) All of the above

Answer: d)

3. Which of the following statement is incorrect for critical path method (CPM)?

- a) The time durations are deterministic.
- b) Looping and probabilistic events are not allowed in the network.
- c) It gives the most economical schedule for the projects with fixed duration.
- d) There is expected duration of the project.

Answer: d)

4. The shortest possible time in which an activity can be achieved under ideal circumstances is known as _____

- a) Pessimistic time estimate
- b) Optimistic time estimate
- c) Expected time estimate
- d) The most likely time estimate

Answer: b)

5. The performance of a specific task in CPM is known as

- a) Dummy
- b) Event
- c) Activity



Solution for Assignment 7



d) Contract

Answer: c)

6. Which of the following statements is not correct about PERT?

a) Network is constructed based on the events.

b) It does not take uncertainties involved in the estimation of times.

c) Network deals with uncertainties and hence three time estimations are considered.

d) As there is no certainty of time, activity duration cannot be reduced.

Answer: b)

7. Choose the correct statement. Dummy activity on a PERT/CPM chart means, it ---- ?

a) consumes time, but no resources

b) consumes resources but no time

c) consumes neither time nor resources

d) consumes both resources and time

Answer: c)

8. Pick up the incorrect statement from the following?

a) an activity of the project is denoted by an arrow on the network

b) the tail of the arrow indicates the end of the activity

c) the head of the arrow indicates the end of the activity

d) the arrows are drawn (to scale from) left to right

Answer: d)

9. In the network, one activity may connect any ---- nodes.

a) one

b) two

c) three

d) any number of

Answer: b)

10. In a network diagram an event is denoted by the symbol ----

a) arrow

b) straight line

c) curve



Solution for Assignment 7



of two

c) three

d) any number of

Answer: b)

10. In a network diagram an event is denoted by the symbol ----

a) arrow

b) straight line

c) curve

d) circle

Answer: d)





Solution for Assignment 8



Assignment 8

1. An activity in a network diagram is said to be ---- if the delay in its start will further delay the project completion time.

- a) critical activity
- b) dummy activity
- c) forward pass
- d) null activity

Answer: a)

2. In PERT analysis the maximum time that is required to perform the activity under extremely bad conditions is known as ----.

- a) normal time
- b) optimistic time
- c) pessimistic time
- d) most likely time

Answer: c)

3. What is the PERT time (T_e) with optimistic, most likely and pessimistic time estimations of 6, 10, 14 days.

- a) 5
- b) 10
- c) 7
- d) 12

Answer: b)

4. In PERT what type of distribution is used for time estimation?

- a) Beta distribution
- b) Poisson distribution
- c) Exponential distribution
- d) Chi Square

Answer: a)

5. The difference between the maximum time available and the actual time needed to perform an activity is known as

- a) Free float



Solution for Assignment 8



b) Independent float

c) Total float

d) Half float

Answer: c)

6. Pessimistic time and optimistic time of completion of an activity are given as 10 days and 4 days respectively, the variance of the activity will be

a) 1

b) 6

c) 12

d) 18

Answer: a)

Solution: Variance, $V = \left(\frac{t_p - t_o}{6} \right)^2 = \left(\frac{10 - 4}{6} \right)^2 = 1$

7. A PERT network has 9 activities on its critical path. The standard deviation of each activity on the critical path is 3. The standard deviation of the critical path is

a) 3

b) 9

c) 81

d) 27

Answer: b)

Solution: In CPM:

The standard deviation of critical path:

$\sigma_{cp} = \sqrt{\text{Sum of variance along critical path}}$

$\sigma_{cp} = \sqrt{\sigma_1^2 + \sigma_2^2 + \dots + \sigma_8^2 + \sigma_9^2}$, where, $\sigma_1, \sigma_2, \dots, \sigma_8, \sigma_9$ are the standard deviation of each activity on the critical path.

$\sigma_{cp} = \sqrt{\sigma_1^2 + \sigma_2^2 + \dots + \sigma_8^2 + \sigma_9^2} = \sqrt{3^2 + 3^2 + 3^2 + 3^2 + 3^2 + 3^2 + 3^2 + 3^2 + 3^2}$

$\sigma_{cp} = \sqrt{9 \times 9} = 9$.

8. Critical activities have

a) maximum float

b) minimum float

c) zero float



Solution for Assignment 8



c) zero float

d) negative float

Answer: c)

9. Total float of an activity is difference between

a) Early Finish and Late Finish

b) Free Float and Interference Float

c) Duration and Early Start

d) Independent Float and the Activity

Answer: a)

10. If the variance of a critical path is 25 days, the standard deviation of that critical path is

a) 12.5 days

b) 15 days

c) 0 days

d) 5 days

Answer: d)



Solution for Assignment 9



1. The relationship between the shape of population distribution and the shape of the sampling distribution of mean is called?
 - a) Mean distribution
 - b) **Central limit theorem**
 - c) Beta distribution
 - d) Population distributions
2. _____ is the maximum delay possible for an activity without considering any delay in its precedence or succeeding activity.
 - a) Free float
 - b) **Total float**
 - c) Continuous float
 - d) Independent float
3. In an activity has Zero slack, it implies that
 - a) **It lies on the critical path**
 - b) It is a dummy activity
 - c) The project is progressing well
 - d) None of the above
4. Fulkerson's rule is connected with
 - a) **Numbering of events in PERT/CPM**
 - b) The simulating model
 - c) Queuing theory
 - d) None of the above
5. If the earliest starting time for an activity is 8 weeks, the latest finish time is 37 weeks and the duration time of the activity is 11 weeks, then the total float is equal to:
 - a) **18 weeks**
 - b) 14 weeks
 - c) 56 weeks
 - d) 40 weeks
$$T.F. = LS - ES - t = 37 - 8 - 11 = 18$$
6. Which of the following floats can have a negative value?
 - a) Total float
 - b) Free float
 - c) Continuous float
 - d) **Independent float**
7. What is the additional time available for the performance of an activity in PERT and CPM calculated on the basis that all activities will start at their earliest start time, called?
 - a) Slack
 - b) Total float
 - c) **Free float**
 - d) Independent float
8. What is the correct sequence for floats?



Solution for Assignment 9



7. What is the additional time available for the performance of an activity in PERT and CPM calculated on the basis that all activities will start at their earliest start time, called?

- a) Slack
- b) Total float
- c) **Free float**
- d) Independent float

8. What is the correct sequence for floats?

- a) Independent float < Total float < Free float
- b) Total Float <= Free Float <= Independent Float
- c) **Independent Float <= Free Float <= Total Float**
- d) Free Float < Total Float < Independent Float

9. A dummy activity is used in the PERT network to:

- a) Facilitate computation of slacks
- b) **Satisfy precedence requirements**
- c) Determine project completion time
- d) Avoid the use of resources

10. According to the Central Limit Theorem, the mean of a sample is _____ to the mean of a population.

- a) **Equal**
- b) Less than
- c) Greater than
- d) Not related



Solution for Assignment 10



Assignment 10

1. In PERT, the distribution of an activity time is assumed to be:
 - a) Normal distribution
 - b) Gamma distribution
 - c) **Beta distribution**
 - d) Exponential distribution
2. The latest start time can be regarded as
 - a) **LFT - duration of activity**
 - b) LFT + duration of activity
 - c) EFT - duration of activity
 - d) EFT + duration of activity
3. Which of the following statement is false in crashing networks?
 - a) Direct cost decreases as project duration decreases
 - b) **Direct cost increases as project duration decreases**
 - c) Direct cost decreases as project duration increases
 - d) Direct cost increases as project duration increases
4. An act (i, j) as critical if and only if
 - a) Total float = 0
 - b) Free float = 0
 - c) Independent float = 0
 - d) **All of the above**
5. In a PERT network, the slack of an event is the difference between:
 - a) **Latest occurrence time and earliest occurrence time**
 - b) Latest occurrence time and earliest finish time
 - c) Earliest occurrence time and latest occurrence time
 - d) Earliest occurrence time and latest finish time
6. In the CPM network critical path denotes the
 - a) Path where maximum resources are used
 - b) Path where minimum resources are used
 - c) **Path where delay of one activity prolongs the duration of completion of a project**
 - d) Path that gets monitored automatically
7. The earliest finish time can be regarded as
 - a) **EST + duration of activity**
 - b) EST - duration of activity
 - c) LFT + duration of activity
 - d) LFT - duration of activity
8. The essential condition for the decompression of an activity is:
 - a) The project time should change due to decompression



Solution for Assignment 10



- c) **Path where delay of one activity prolongs the duration of completion of a project**
d) Path that gets monitored automatically

7. The earliest finish time can be regarded as

- a) **EST + duration of activity**
b) EST - duration of activity
c) LFT + duration of activity
d) LFT - duration of activity

8. The essential condition for the decompression of an activity is:

- a) The project time should change due to decompression

b) After decompression the time of an activity invariably exceeds its normal time.

- c) **An activity could be decompressed to the maximum extent of its normal time**
d) None of the above

9. Crashing of a project is the process of reducing the _____ of the project?

- a) Cost
b) **Time**
c) Material
d) Labor

10. Float is used for _____.

- a) **Activities**
b) Events
c) Nodes
d) None of the above



Solution for Assignment 11



1. Which of the following is a cost estimating technique?
 - a) Variance management
 - b) Cost aggregation
 - c) **Parametric estimating**
 - d) Cost change control system
2. A cost performance index value greater than 1.0 signifies:
 - a) **Cost underrun**
 - b) Cost overrun
 - c) Cost run equal
 - d) None of the above
3. Schedule value is termed as:
 - a) Earned value – Actual value
 - b) **Earned value – Planned value**
 - c) Actual cost – planned value
 - d) Actual cost – Earned value
4. Cost performance index is calculated by using:
 - a) Actual cost / Planned value
 - b) Planned value / Earned value
 - c) Budget cost at completion / Actual cost
 - d) **Earned value / Actual cost**
5. Which of the following is not used to provide performance measurement of any work at a given point of time.
 - a) Planned value
 - b) **Budgeted cost at completion**
 - c) Earned value
 - d) Actual cost
6. Which of the following is not a cost budgeting input?
 - a) Project scope statement
 - b) WBS Dictionary
 - c) Resource calendar
 - d) **Performance reports**
7. Which of the following is not a cost control technique?
 - a) **Reserve analysis**
 - b) Project performance reviews
 - c) Forecasting
 - d) Variance management



Solution for Assignment 11



d) Variance management

8. Cost value can be regarded as:

- a) **Earned value – Actual cost**
- b) Earned value – Planned value
- c) Planned value – Actual cost
- d) Planned value – Earned value

9. Estimating the cost of individual work packages or individual schedule activities with the lowest level of detail is called?

- a) Parametric Estimating
- b) **Bottom-up Estimating**
- c) Vendor Bid Analysis
- d) Reserve Analysis

10. Which one of the following is not a dimension of Quality?

- a) Performance
- b) Reliability
- c) **Cost**
- d) Durability



Solution for Assignment 12



Assignment 12

- Which of the following is not purchasing policy?
 - Employee's purchase
 - Supplier's purchase**
 - Speculative buying
 - Sourcing
- Which of the following is not included in the prevention cost of quality?
 - Training
 - Process control
 - Product review
 - Product inspection**
- A product consists of 650 units of assembly. What is the probability that any specific unit of product is conforming if we go by 3 sigma?
 - 15.25%
 - 16.25%
 - 17.25%**
 - 18.25%

Solution = $(0.9973)^{650} = 0.1724 = 17.24\%$
- Which of the following is not a dimension of Quality?
 - Performance
 - Serviceability
 - Perishability**
 - Features
- Which of the following is not an objective of scientific purchasing?
 - Cost reduction
 - Maintain continuity in supply
 - Standardization
 - Performance evaluation**
- Which of the following term specify with the character 'I' in DMAIC?
 - Implement
 - Integrate
 - Input
 - Improve**
- Which of the following cost consider as appraisal cost of quality?
 - Testing of material**
 - Complaint adjustment
 - Liability cost
 - Data acquisition and analysis
- Which of the following is not a type of project termination?



Solution for Assignment 12



- a) Integration
- b) Starvation
- c) Extinction
- d) **Deprivation**

9. Calculate DPMO, when a supplier is supplying a total of 3, 00,000 units in a single day and observed 350 units have defected.

- a) 100
- b) **1000**
- c) 10000
- d) 10

Solution: $3001 \times 300,000 \times 1,000,000$
= 1,000 units

10. If you were a Six Sigma Deployment Leader in the organization, what will you first do?

- a. **Develop a vision and mission for the organization and execute a Six Sigma Deployment plan in the organization**
- b. Perform statistical analysis in the process and identify root causes
- c. Help process achieves its metrics by executing process improvement projects
- d. Identify areas of best practices and guide green belts to execute them