Unit 6 - Week 5-Planning & Scheduling part-2

Assignments

Due on 2016-09-04, 23:09 IST.

Assignments

Assignment-5

The data for this assignment has been passed. As per our records you have not submitted this assignment.

General Information

1. There are 4 questions in this assignment.
2. Questions 1 to 4 are based on comprehension information given below.
3. Questions 3 and 4 carry 2 marks each, whereas the rest of the questions carry 1 mark each.

Answer questions 1 to 4 based on the information given below.

The details of five activities, A, B, C, D, and E are in a project in terms of their normal and crash durations (in days), and the normal and crash costs, are given in the following table. The indirect cost may be taken as INR 3000 per day, if required.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Normal Duration (Days)</th>
<th>Crash Duration (Days)</th>
<th>Normal Cost (INR)</th>
<th>Crash Cost (INR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3</td>
<td>2</td>
<td>10000</td>
<td>20000</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>3</td>
<td>15000</td>
<td>30000</td>
</tr>
<tr>
<td>C</td>
<td>5</td>
<td>4</td>
<td>20000</td>
<td>40000</td>
</tr>
<tr>
<td>D</td>
<td>6</td>
<td>5</td>
<td>25000</td>
<td>50000</td>
</tr>
<tr>
<td>E</td>
<td>7</td>
<td>6</td>
<td>30000</td>
<td>60000</td>
</tr>
</tbody>
</table>

1) What is the crash start of activity E?

A) 3
B) 4
C) 5
D) 6

No. the answer is incorrect.

Assumed Answers:

A)

2) What is the total project cost under normal condition?

A) INR 150,000
B) INR 180,000
C) INR 210,000
D) INR 240,000

No. the answer is incorrect.

Assumed Answers:

B)

3) Considering the total cost involved, the optimum project duration, i.e. duration for minimum total cost is ___ days?

A) 6
B) 5
C) 4
D) 3

No. the answer is incorrect.

Assumed Answers:

B)

4) What is the lowest total cost that can be achieved by crashing the project till the optimum duration?

A) INR 210,000
B) INR 180,000
C) INR 150,000
D) None of these

No. the answer is incorrect.

Assumed Answers:

B)

5) In the context of crashing activities in project scheduling, consider the following statements:

Statement 1: High critical activities are claimed to reduce the project duration.
Statement 2: An activity that has maximum cost is considered first for crashing.

Which of the following is correct?

A) Both statements are TRUE
B) Statement 1 is TRUE and statement 2 is FALSE
C) Statement 1 is FALSE and statement 2 is TRUE
D) Both statements are FALSE

No. the answer is incorrect.

Assumed Answers:

A)

6) In the context of resource leveling, consider the following statements:

Statement 1: Critical activities are given the first priority while allocating resources.
Statement 2: The contractor uses activity network to resolve activities, delaying project completion.

Which of the following is correct?

A) Both statements are TRUE
B) Statement 1 is TRUE and statement 2 is FALSE
C) Statement 1 is FALSE and statement 2 is TRUE
D) Both statements are FALSE

No. the answer is incorrect.

Assumed Answers:

B)

7) The normal duration and normal cost of an activity are 6 days and INR 10000, respectively. It is also given that the crash duration and crash cost of an activity are 2 days and INR 15000, respectively. What is the cost slope (in INR/day) of that activity?

A) 1000
B) 2000
C) 3000
D) 4000

No. the answer is incorrect.

Assumed Answers:

B)

8) There is a task involving fixing 100 m2 of interior framework for the roof shell of a single-stored building. The target time of completing the task is 4 = 2 point days. If more than 4.5 days, 20% of the workers working on site are skilled workers, and one unskilled worker can install framework at 1.5 m2/hr. then the maximum number of men required is ___.

A) 2
B) 6
C) 8
D) 10

No. the answer is incorrect.

Assumed Answers:

A)