Assignment 10

The due date for submitting this assignment has passed. Due on 2019-10-09, 23:59 IST. As per our records you have not submitted this assignment.

1) Pick the right statement

- Crash cost / time period = (crash cost - normal cost) / (normal time - crash time)
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No, the answer is incorrect.
Score: 0
Accepted Answers:
Crash cost / time period = (crash cost - normal cost) / (normal time - crash time)

2) Area under the beta – distribution curve is divided into two equal parts by

- Most likely time
- Optimistic time
- Pessimistic time
- Expected time

No, the answer is incorrect.
Score: 0
Accepted Answers:
Expected time

3) Economic saving of time results by crashing

- Cheapest critical activity
- Cheapest non-critical activity
- Costliest critical activity
- Costliest non-critical activity

No, the answer is incorrect.
Score: 0
Accepted Answers:
Cheapest critical activity

4) Crash project duration is obtained by summing the

- Normal durations for all the activities
- Crash durations for all activities
- Crash duration for all the activities along the critical path obtained by taking into account the normal durations for all the activities
- Crash duration for all the activities along path obtained by taking into account the crash durations for all the activities

No, the answer is incorrect.
Score: 0
Accepted Answers:
Crash duration for all the activities along path obtained by taking into account the crash durations for all the activities

5) A project has three independent critical paths A, B and C. to reduce the project length, we have to shorten

- The activities of A
- The activities of B
- The activities of C
- The activities of A, B and C simultaneously

No, the answer is incorrect.
Score: 0
Accepted Answers:
The activities of A, B and C simultaneously

6) Questions 6 to 8 are linked questions use following data. The following table gives data on normal time, and cost and crash time and cost for a project.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Normal</th>
<th>Crash</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Time(weeks)</td>
<td>Cost (Rs)</td>
</tr>
<tr>
<td>1 – 2</td>
<td>3</td>
<td>300</td>
</tr>
<tr>
<td>2 – 3</td>
<td>3</td>
<td>30</td>
</tr>
<tr>
<td>2 – 4</td>
<td>7</td>
<td>420</td>
</tr>
<tr>
<td>2 – 5</td>
<td>9</td>
<td>720</td>
</tr>
<tr>
<td>3 – 5</td>
<td>5</td>
<td>250</td>
</tr>
<tr>
<td>4 – 5</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5 – 6</td>
<td>6</td>
<td>320</td>
</tr>
<tr>
<td>6 – 7</td>
<td>4</td>
<td>400</td>
</tr>
<tr>
<td>6 – 8</td>
<td>13</td>
<td>780</td>
</tr>
<tr>
<td>7 – 8</td>
<td>10</td>
<td>1000</td>
</tr>
</tbody>
</table>

With the help of network diagram, what are the critical path of the project

- 1-2-5-6-7-8
- 1-2-4-5-6-7-8
- 1-2-3-5-6-8
- 1-2-3-5-6-7-8

No, the answer is incorrect.
Score: 0
Accepted Answers:
1-2-5-6-7-8

7) What are the normal project duration and associated cost?

- 31 weeks, Rs. 4820
- 30 weeks, Rs. 6820
- 29 weeks, Rs. 5820
32 weeks, Rs. 5820
No, the answer is incorrect.
Score: 0
Accepted Answers:
32 weeks, Rs. 5820

8) Crash the relevant activities systematically and determine the optimal project completion time and cost.

30 weeks, Rs. 5805
29 weeks, Rs. 5805
28 weeks, Rs. 5815
31 weeks, Rs. 5815

No, the answer is incorrect.
Score: 0
Accepted Answers:
29 weeks, Rs. 5805

9) Questions 9 to 10 are linked questions use given data. The following is a table showing details of a project:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Immediate Predecessor</th>
<th>Normal</th>
<th>Crash</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Time (weeks)</td>
<td>Cost (Rs. '000)</td>
</tr>
<tr>
<td>A</td>
<td>-</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>B</td>
<td>-</td>
<td>8</td>
<td>15</td>
</tr>
<tr>
<td>C</td>
<td>B</td>
<td>5</td>
<td>8</td>
</tr>
<tr>
<td>D</td>
<td>B</td>
<td>6</td>
<td>11</td>
</tr>
<tr>
<td>E</td>
<td>B</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>F</td>
<td>E</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>G</td>
<td>A, D, C</td>
<td>12</td>
<td>3</td>
</tr>
</tbody>
</table>

The indirect cost is Rs. 400 per day.
Find the optimum duration after crashing of project.

19 weeks
18 weeks
20 weeks
21 weeks

No, the answer is incorrect.
Score: 0
Accepted Answers:
19 weeks

10) Find the associated minimum project cost after crashing.

Rs. 1,32,200
Rs. 1,32,800
Rs. 1,33,600
Rs. 1,37,400

No, the answer is incorrect.
Score: 0
Accepted Answers:
Rs. 1,32,200