



NPTEL

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Unit 8 - UNIT-7 (Week 7)

Course outline

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Assignment 7

The due date for submitting this assignment has passed. **Due on 2018-03-28, 23:59 IST**
As per our records you have not submitted this assignment.

1) Which of the following statement is true with respect to estimation by analogy **1 point**



Cost are assigned to each element at lowest level of details



The estimator begins with set of drawings and specifies about each kind of requirement



It is useful when a firm is venturing into new area



It is useful and sufficient in long range planning

No, the answer is incorrect.

Score: 0

Accepted Answers:

It is useful when a firm is venturing into new area

A2) mathematical model that explains the phenomenon of worker efficiency with **1 point**
repetitive production of a good or service is known as



Learning curve



Functional relationship



Order of magnitude estimates



Power law and sizing model

No, the answer is incorrect.

Score: 0

Accepted Answers:

Learning curve

While dealing with cost estimating relationship, the functions in which price **1 point**
quantity relationship is better represented in small non-continuous increments are

☐ Solutions of Assignment 7

UNIT-8 (Week 8)

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- ☐ Linear functions
- ☐ Exponential functions
- ☐ Parabolic functions
- ☐ Step functions

No, the answer is incorrect.

Score: 0

Accepted Answers:

Step functions

The table below gives the net profit calculated for five investment opportunities under three possible futures. The alternatives that should be selected under the most probable future criterion and the expected value criterion respectively are

Alternative	(0.3) F_1 (Rs)	(0.2) F_2 (Rs)	(0.5) F_3 (Rs)
A_1	30,00,000	20,00,000	38,00,000
A_2	-20,00,000	16,00,000	59,00,000
A_3	0	18,00,000	50,00,000
A_4	11,00,000	28,00,000	20,00,000
A_5	40,00,000	9,00,000	18,00,000

- ☐ A_2 and A_1
- ☐ A_3 and A_1
- ☐ A_3 and A_4
- ☐ A_2 and A_4

No, the answer is incorrect.

Score: 0

Accepted Answers:

A_2 and A_1

5) In cash estimation involving learning, the term learning implies that to

1 point

- ☐ Direct-Labour hours will increase per unit when production quantity is doubled
- ☐ Direct-Labour hours will decrease per unit when production quantity is doubled
- ☐ Direct-Material cost per unit will increase when production quantity is doubled
- ☐ Direct-Material cost per unit will decrease when production quantity is doubled

No, the answer is incorrect.

Score: 0

Accepted Answers:

Direct-Labour hours will decrease per unit when production quantity is doubled

6) For Q 6 TO 8:

1 point

A student team is designing a formula car. Estimated time required to assemble the first car is 100 hours. Learning rate is 0.8.

Time required to assemble 4th car is

☐

80 Hours

☐

64 Hours

☐

51.2 Hours

☐

56 Hours

No, the answer is incorrect.

Score: 0

Accepted Answers:

64 Hours

7) Time required to assemble tenth car is

1 point

☐

45.2 Hours

☐

47.6 Hours

☐

49.3 Hours

☐

2.5 Hours

No, the answer is incorrect.

Score: 0

Accepted Answers:

47.6 Hours

8) Time required to assemble first ten cars is

1 point

☐

658 Hours

☐

631 Hours

☐

605 Hours

☐

692 Hours

No, the answer is incorrect.

Score: 0

Accepted Answers:

631 Hours

9) For Q 9 TO 10:

1 point



Cost per kilometer, X , is a random variable and is described in the table below:

Cost(X) in Rupees	Probability that cost is X
8000000	0.1
10000000	0.3
12000000	0.3
14000000	0.2
16000000	0.1

Expected value of the cost per kilometer will be

- ☐ 11600000
- ☐ 11800000
- ☐ 11200000
- ☐ 11300000

No, the answer is incorrect.

Score: 0

Accepted Answers:

11800000

10) If the contractor wishes to be 90% sure that the cost will not exceed the income, **1 point** the bid selected should be for Rupees

- ☐ 16000000
- ☐ 14000000
- ☐ 12000000
- ☐ 10000000

No, the answer is incorrect.

Score: 0

Accepted Answers:

14000000

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