

Unit 2 - Week 0

Course outline
How does an NPTEL online course work?
Week 0
<input type="radio"/> Quiz : Assignment 0
Week 1
Week 2
Week 3
Week 4
Week 5
Week 6
Week 7
Week 8
Week 9
Week 10
Week 11
Week 12
Download Videos
FFEEEDBACK

Assignment 0

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-09-14, 23:59 IST.

Assignment 0

1) n unbiased coins are tossed simultaneously. The probability of getting exactly r ($r \leq n$) heads is: 1 point

- $nC_r(1/2)^{n-r}$
 $nC_r(1/2)^n$
 $nC_r(1/2)^r$
 nC_r

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $nC_r(1/2)^n$

2) The slope of the curve $y=e^{ax+ab}$ at the point $x=0$ is: 1 point

- e^b
 a
 ae^b
 $e^{b/a}$

No, the answer is incorrect.
Score: 0

Accepted Answers:
 ae^b

3) Two variables x, y are related by the equation: $y=3x+4$. The percentage change in y corresponding to 10% increase in x from its current value of $x=4$ is closest to: 1 point

- 5.50
 7.50
 8.50
 6.50

No, the answer is incorrect.
Score: 0

Accepted Answers:
7.50

4) The probability that the value of the standard normal variate lies between 0.50 and 1.00 is closest to (use normal distribution tables): 1 point

- 0.1524
 0.1675
 0.1498
 0.1347

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.1498

5) The value of the cumulative distribution function of the standard normal variate Z for $z=1.00$ is closest to (use normal distribution tables) : 1 point

- 0.8350
 0.8245
 0.8533
 0.8413

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.8413

6) A question paper consists of three multiple choice questions. Each question has five options of which only one is correct. A student marks his answers randomly. The probability that at least one answer is correct is closest to: 1 point

- 0.450
 0.420
 0.488
 0.405

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.488

7) An interest rate of 10% p.a. compounded continuously is equivalent to an annual yield (in % p.a.) which is closest to: 1 point

- 10.620
 10.430
 10.517
 10.350

No, the answer is incorrect.
Score: 0

Accepted Answers:
10.517

8) The area of the curve $y=x^2$ lying between $x=0$ and $x=2$ is: 1 point

- $8/3$
 $1/3$
 4
 $2/3$

No, the answer is incorrect.
Score: 0

Accepted Answers:
 $8/3$

9) For an online certification course, 59% of students enrolled have work experience, 32% are graduates and 21% are graduates with work experience. The probability that a random student with work experience is a graduate is: 1 point

- 0.452
 0.356
 0.332
 0.211

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.356

10) A cricket trainer knows that his team will play 40 percent of its games on artificial wickets this season. He also know that a cricketer's chance of incurring an injury are 50 percent higher if he is playing on artificial wickets. If a cricketer's probability of injury on artificial wickets is 0.42, the probability that a randomly selected cricketer incurs an injury is: 1 point

- 0.336
 0.354
 0.642
 0.314

No, the answer is incorrect.
Score: 0

Accepted Answers:
0.336