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NIPTEL

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Courses » Computational Systems Biology

Announcements Course Ask a Question Progress Mentor FAQ

Unit 2 - Pre-requisite Assignment

Course outline	Assignment 0	
	The due date for submitting this assignment has passed.	
How to access the portal	As per our records you have not submitted this assignment. Due on 2018-07-30, 23:5	59 IST.
Pre-requisite Assignment	1) Which of the following statements are true:	1 point
Ouiz :	DNA is translated into RNA which is further transcribed into proteins	
Assignment 0	Chemical energy is stored as ATP	
MATLAB Access	Transcription occurs in nucleus	
and Introduction	A codon is made up of 4 nucleotides	
MATLAB	None of the above	
Learning Modules	No, the answer is incorrect. Score: 0	
Week 1	Accepted Answers:	
Week 2	Chemical energy is stored as ATP Transcription occurs in nucleus	
Week 3	2) If the template strand is ATGATCGTGCCTTAG:	1 point
Week 4	The reverse complementary strand will be CTAAGGCACGATCAT	
Week 5	The RNA strand will read as AUGAUCGUGCCUUAG	
	All strands are read from 3' to 5'	
Week 6	The complementary strand is the coding strand	
Week 7	None of the above	
Week 8	No, the answer is incorrect. Score: 0	
Week 9	Accepted Answers:	
Week 10	The reverse complementary strand will be CTAAGGCACGATCAT The complementary strand is the coding strand	

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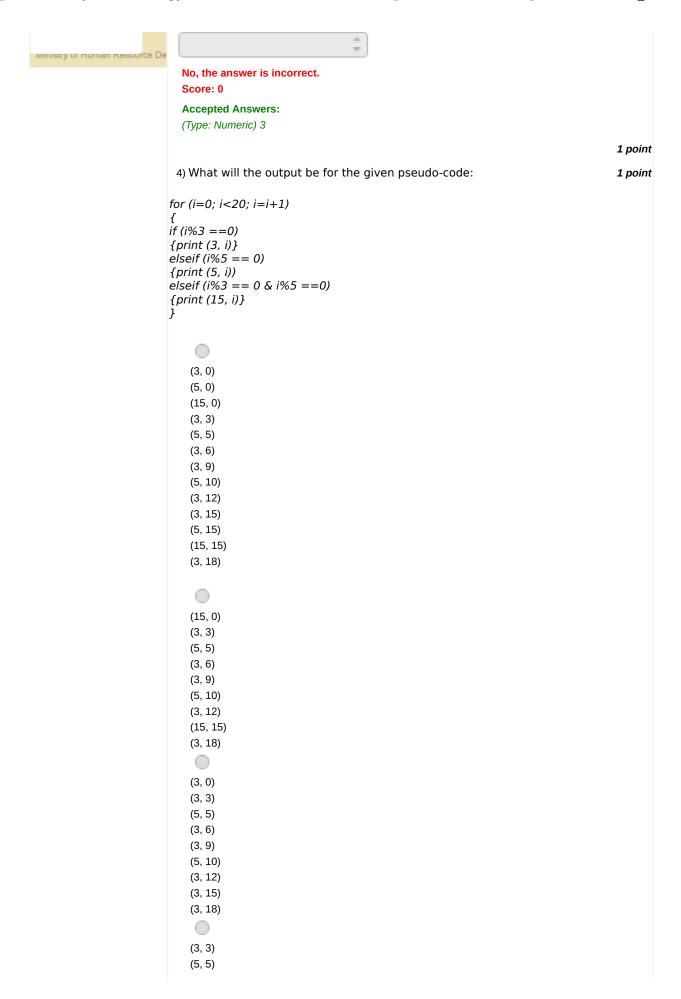
A project of





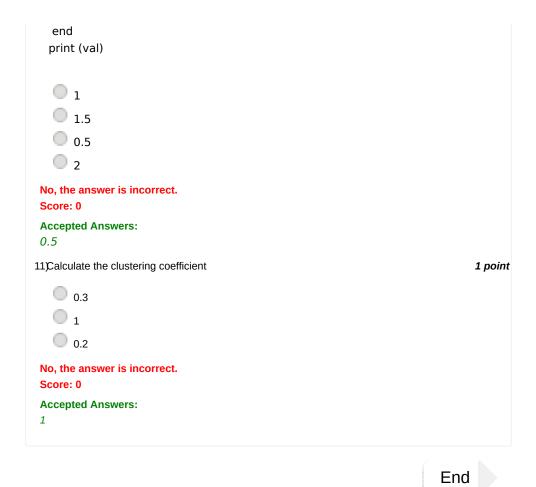
Funded by

In association with



```
(3, 6)
    (3, 9)
    (5, 10)
    (3, 12)
    (15, 15)
    (3, 18)
     (3, 3)
    (5, 5)
    (3, 6)
    (3, 9)
    (5, 10)
    (3, 12)
    (3, 15)
    (5, 15)
    (15, 15)
    (3, 18)
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  (3, 0)
  (3, 3)
  (5, 5)
  (3, 6)
  (3, 9)
  (5, 10)
  (3, 12)
  (3, 15)
  (3, 18)
 5) How many times will the function "myfunc" be called when the pseudo-code is executed?
function myfunc(x)
if (x == 1)
{return x}
else
{myfunc(x-1)}
}
a = myfunc(4)
  No, the answer is incorrect.
  Score: 0
  Accepted Answers:
  (Type: Numeric) 4
                                                                                       1 point
 6) Enzymes act as catalysts in reactions by
                                                                                       1 point
     Increasing the activation energy of a reaction
     Decreasing the activation energy of a reaction
     Changing the equilibrium constant of the reaction
     Changing the free energy change between the reactants and products
  No, the answer is incorrect.
  Score: 0
```

```
Accepted Answers:
 Decreasing the activation energy of a reaction
7) What will be the output of the below pseudocode:
                                                                           1 point
 j=0
  for (k=1; k \le 5; k++)
   k++
   j=j+2
   print(j)
   end
   All even numbers between 0 and 8
   All even numbers between 0 and 10
   All even numbers between 0 and 12
   All even numbers between 0 and 6
No, the answer is incorrect.
 Score: 0
Accepted Answers:
All even numbers between 0 and 8
8) Variables in programming languages
                                                                           1 point
   Can change in value
   Cannot change in value
   Can be one of the reserved words
   Can be local or global
No, the answer is incorrect.
 Score: 0
Accepted Answers:
Can change in value
Can be local or global
9) Which of the following statements are true:
                                                                           1 point
   Metabolic reactions are non-enzymatic reactions that occur in an organism
   Metabolism is composed of two: anabolism and catabolism
   ATP forms the energy currency of the cell
   Regulation does not play a role in metabolic processes
No, the answer is incorrect.
Score: 0
Accepted Answers:
Metabolism is composed of two: anabolism and catabolism
ATP forms the energy currency of the cell
10What is the output of the following pseudocode:
                                                                           1 point
 val = 20.5;
 for (k=1;k=20;k++)
   if k\%2 == 0
   val = val - k + 2;
   else
   val = val + k - 3;
   end
```



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