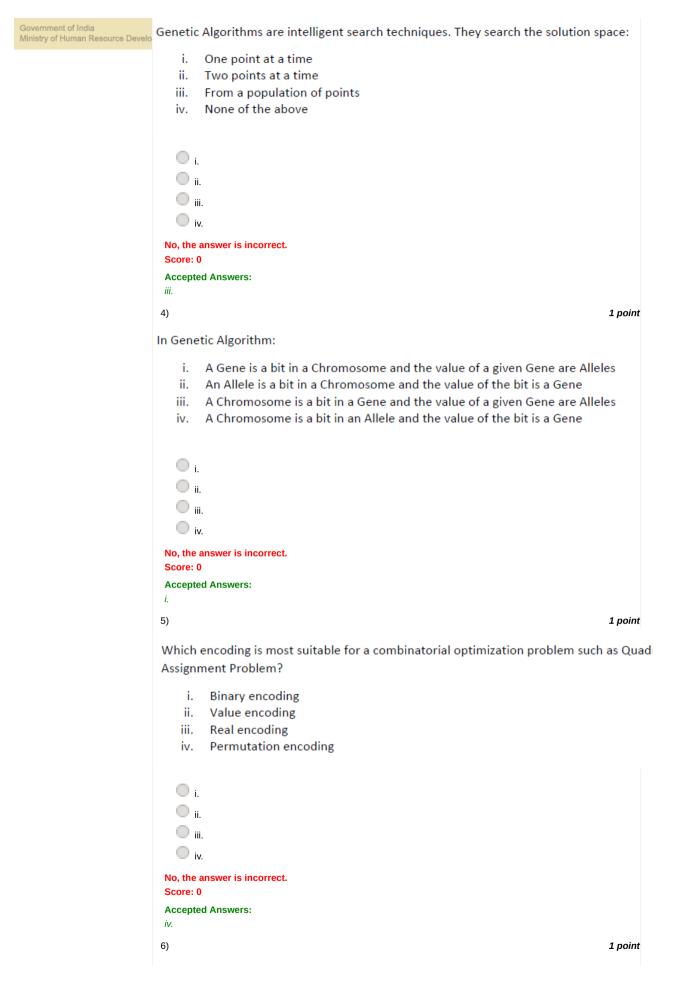


NASSCO

Funded by



Powered by



For Single point crossover with crossover point in the middle, what will be the Child Chromosomes for the following two Parent Chromosomes: 110111 and 100011

i. ii. iii. iv.	110011 111100 110100 100110	and 0 and 1)11110 11011				
● i. ● ii.							
◯ iii. ◯ iv.							
No, the an Score: 0	iswer is inc	orrect.					
Accepted	Answers:						
7)							1 point

For Two point crossover with crossover points after 2nd and 4th bit, what will be the Child Chromosomes for the following two Parent Chromosomes: 110111 and 100011

i.	111100 and 101101	
ii.	110011 and 100111	
iii.	110111 and 100011	
iv.	111110 and 011100	
О і.		
🔘 іі.		
🔘 iii		
🔘 iv	<u>.</u>	
No, the a Score: 0	answer is incorrect.	
Accepte	d Answers:	
ii.		
8)		1 point
In David		

In Roulette wheel selection, the survival probability of a chromosome is proportional to t following:

- i. Rank of the Chromosome
- ii. A randomization function
- iii. Fitness value of the Chromosome
- iv. None of the above

\odot	i.			
\odot	ii.			
\odot	iii.			
\bigcirc	iv.			
No, the answer is incorrect.				
Score: 0				

Accepte iii.	ed Answers:
9)	1 po
In Gene	tic Algorithm, Elitism as a selection scheme involves
i. ii. iii. iv.	Passing on some high fitness chromosomes directly to next generation Deleting some low fitness chromosomes from the current generation Selecting some high fitness chromosomes directly for crossover Assigning high survival probability to some high fitness chromosomes
Oi Oi Oi	i.
in No, the	v. answer is incorrect.
Score: (D ed Answers:
i.	
10)	1 po
In Gene should	etic Algorithm, it is usual to have: crossover probability and mutation probabil be:
i. ii. iii. iv.	High crossover probability and high mutation probability Low crossover probability and high mutation probability Low crossover probability and low mutation probability High crossover probability and low mutation probability
Oi. Oii Oii	i.
	answer is incorrect.
Score:	ס
iv.	ed Answers:
11)	1 po
For solv	ing Travelling Salesman Problem using Genetic Algorithm, it is usual to have:
i. ii. iii. iv.	Permutation encoding, Single point crossover, and order changing mutation Binary encoding, Single point crossover, and Bit inversion mutation Permutation encoding, Two point crossover, and Bit inversion mutation Binary encoding, Two point crossover, and order changing mutation
0 i	
	-
ii Oi	
	v.

No, the answer is incorrect. Score: 0	
Accepted Answers:	
i.	
12) 1 point	t
In a Travelling Salesman Problem, the available data include only the distances betwee cities. While solving the problem using Genetic Algorithm, the fitness function will be:	
 i. Minimization of the inverse of total distance travelled ii. Maximization of the inverse of total distance travelled iii. Maximization of the total distance travelled iv. Minimization of the total distance travelled 	
 i. ii. iii. iii. iv. 	
No, the answer is incorrect. Score: 0	
Accepted Answers: ii.	
13) 1 point	t
For 0-1 Knapsack Problem being solved by Genetic Algorithm, Following encoding is recommended:	
i. Permutation encoding	
ii. Binary encoding	
iii. Real encoding iv. Value encoding	
 i. ii. iii. iii. iv. 	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
14) 1 point	t
A Knapsack can carry total weight of 10 kg. 5 items are available in different numbers,	

A Knapsack can carry total weight of 10 kg. 5 items are available in different numbers, weights, and values. We need to fill the knapsack with as many number of each item so a to maximize the value. Genetic Algorithm is being used. We may have:

- i. Binary encoding and Single Point crossover
- ii. Binary encoding and Two Point crossover
- iii. Real encoding and Single Point crossover
- iv. Real encoding and Two Point crossover



🔲 іі.	
🔍 іі.	
iv.	
No, the answer is incorrect.	
Score: 0	
Accepted Answers:	
iii.	
15)	1 point

Input and output values are given. The task is to find a function that will give the best (closest desired) outputs for all inputs. While using Genetic Algorithm, we may go for:

- i. Binary encoding and Single Point crossover
- ii. Binary encoding and Two Point crossover
- iii. Tree encoding and Tree crossover
- iv. Real encoding and Single Point crossover

🔘 і.		
🔍 іі.		
🔍 іі.		
🔘 iv.		
No, the answer is incorrect.		
Score: 0		
Accepted Answers:		
iii.		

Previous Page

End