## Artificial Intelligence QUIZ 1 (Section-A)

Date: November 19, 2018 Marks: 50 Time: 30 min.

**Q1.a.** Suppose there are 10 chromosomes with fitness as shown in table. What will be the selection probability according to proportionate and linear rank selection methods? (15)

Chromosome No.	Fitness	Proportionate	Linear Rank
A	50		
В	25		
С	25		
D	100		
E	75		
F	125		
G	250		
Н	110		
I	140		
J	100		

	Artificial Intelligence	е
	QUIZ 1 (Section-A)	
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tournament selection	n and the two random and {C, D, J}, which t	the above population by nly selected chromosome wo chromosomes will be

## Artificial Intelligence QUIZ 1 (Section-A)

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_	<b>means algorithm</b> on the distance of the dista	he data given in Figure nce as the distance

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Individual	Variable 1	Variable 2	
1	1.0	1.0	
2	1.5	2.0	
3	3.0	4.0	
4	5.0	7.0	
5	3.5	5.0	
6	4.5	5.0	
7	3.5	4.5	

Figure 1