

**Zoology [Honours]****[CBCS]****B.Sc. Fifth Semester End Examination-2023****(Regular & Supplementary Paper)****PAPER-DSE2P****Practical****Full Marks: 20****Time: 02 Hrs***The figures in the right hand margin indicate marks**Candidates are required to give their answers in their own words as far as practicable**Illustrate the answers wherever necessary*

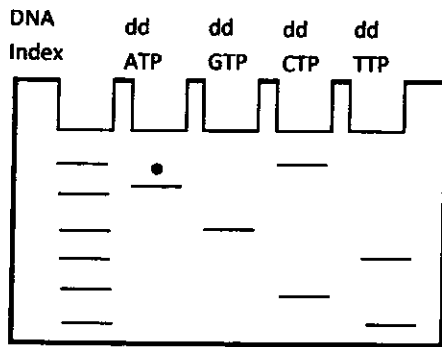
1. When interrupted mating technique was used with five different strains of Hfr bacteria, the following order of gene entry and recombination was observed. 5

<u>Hfr strain</u>	<u>Order of transfer</u>
1	T C H R O
2	H R O M B
3	M O R H C
4	M B A K T
5	C T K A B

On the basis of these data, draw a map of bacterial chromosome.

Do the data support the concept of circularity?

2. After do the DNA sequencing with the help of di-deoxy method followed by agarose gel electrophoresis, above mentioned photograph is taken find out the sequence of target DNA with justification. 10



3. Laboratory Note-book. 2
4. Viva-voce 3
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