5 An experiment was conducted to examine the effect of ultraviolet radiation on the development of antibiotic resistance in a strain of bacteria. The table summarises the outcomes of this experiment.

Treatment	Antibiotic resistance					
	Antibiotic P	Antibiotic Q	Antibiotic R	Antibiotic S	Antibiotic T	
No exposure to ultraviolet radiation	1	1	х	х	×	
Exposure to ultraviolet radiation	1	1	х	1	х	

Which of the following statements best summarises the stages in the development of the new strain of bacteria that was resistant to antibiotic S?

- (A) Hybridisation → Mutation → Natural Selection
- (B) Replication → Mutation → Natural Selection
- (C) Mutation → Natural Selection → Replication
- (D) Mutation → Hybridisation → Natural Selection

Band 1/2 Band 2/3 Band 3/4 Band 4/5 Band 5/6

A	20	22.10	14.10	3.60	1.90
В	28.10	23.20	24.90	20.40	13.10
С	28.90	32	43.70	69.60	80.60
D	23	22.50	17.30	6.20	4.40
N	0	0.20	0	0.20	0

Question 5: % answers correct by band range

