

# Homeostasis in mammals

## Question Paper 3

<b>Level</b>	International A Level
<b>Subject</b>	Biology
<b>Exam Board</b>	CIE
<b>Topic</b>	Homeostasis
<b>Sub Topic</b>	Homeostasis in mammals
<b>Booklet</b>	Theory
<b>Paper Type</b>	Question Paper 3

**Time Allowed :** 66 minutes

**Score :** / 55

**Percentage :** /100

**Grade Boundaries:**

A*	A	B	C	D	E	U
>85%	'77.5%	70%	62.5%	57.5%	45%	<45%



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2 (a) Describe the role of insulin in the regulation of blood glucose concentration.

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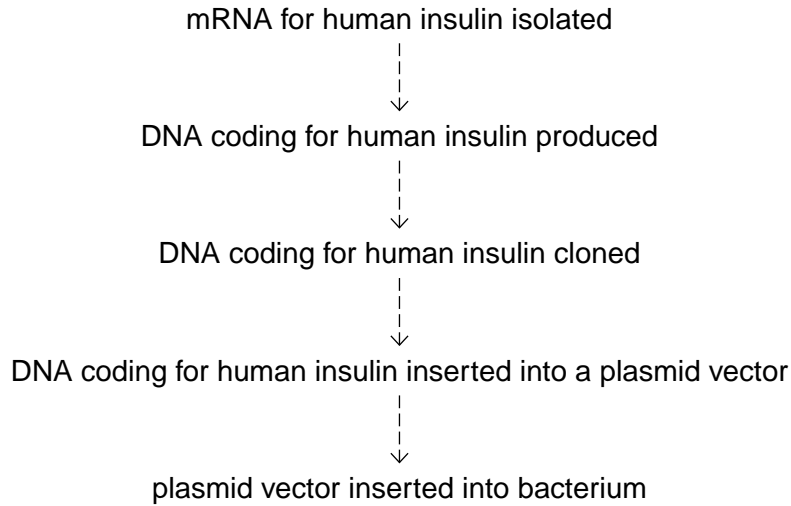
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..... [4]

- (b) Fig. 4.1 shows some of the steps involved in the production of bacteria capable of synthesising human insulin.



**Fig. 4.1**

State the role of each of the following enzymes in the production of bacteria capable of synthesising human insulin,

reverse transcriptase .....

.....  
.....

DNA polymerase .....

.....  
.....

restriction enzymes (restriction endonucleases) .....

.....  
.....

DNA ligase. ....

.....  
.....

[6]

[Total: 10]



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