**1.** If mRNA has a codon CAU, what is the corresponding anticodon on the tRNA molecule?

A. CAT

B. GUA

C. CAU

D. GTA

(Total 1 mark)

**2.** Which stage of translation is illustrated by the diagram below?



A. Termination

B. Initiation

C. Translocation

D. Elongation

(Total 1 mark)

**3.** Explain the process of translation.

(Total 9 marks)

**1.** B

[1]

**2.** D

[1]

**3.** 5' to 3' (direction of movement along mRNA);  
(small subunit of) ribosome binds to mRNA;  
moves along mRNA until it reaches the start codon /   
AUG / translation starts at AUG;  
tRNA binds to ribosome / mRNA;  
large subunit binds to small subunit;  
two tRNAs bound to ribosome at the same time;  
binding of tRNA with anticodon complementary  
to codon on mRNA;  
tRNAs carry an amino acid;  
anticodon / codon codes for an amino acid;  
amino acid linked by a peptide bond to the polypeptide /   
to another amino acid;  
ribosome moves on along the mRNA;  
tRNA displaced and another attaches to vacant binding site;  
stop codon reached;  
polypeptide / protein is released /   
tRNA and mRNA detached from ribosome;  
ribosome splits into (large and small) subunits;

[9]