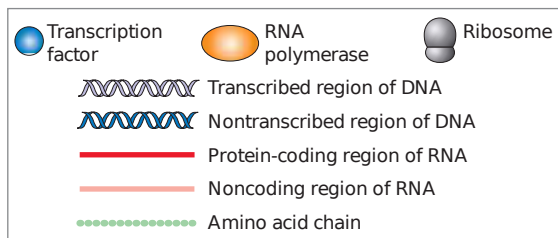
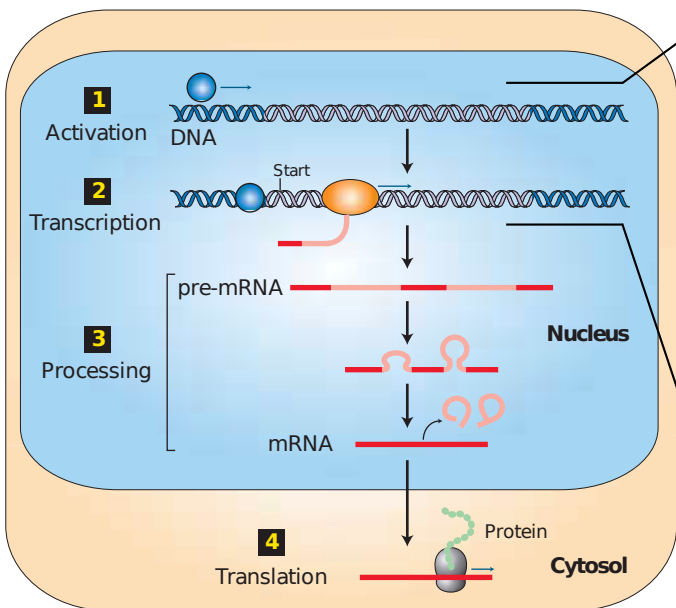
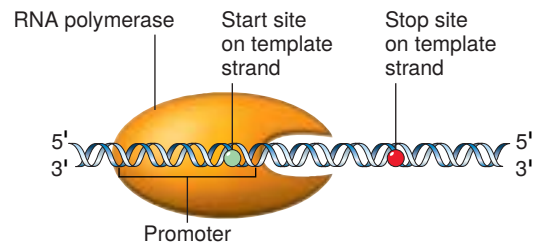
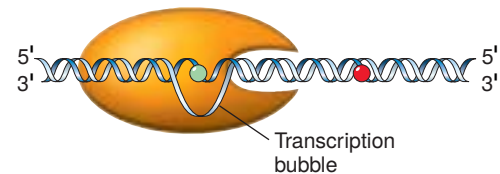


a**b****INITIATION**

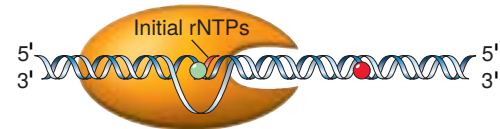
- 1** Polymerase binds to promoter sequence in duplex DNA.



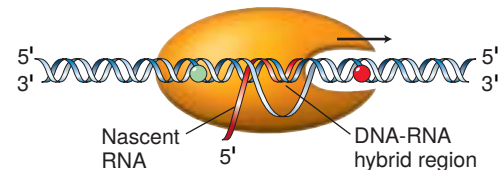
- 2** Polymerase melts duplex DNA near transcription start site, forming a transcription bubble.



- 3** Polymerase catalyzes phosphodiester linkage of two initial rNTPs.

**ELONGATION**

- 4** Polymerase advances 3' → 5' down template strand, melting duplex DNA and adding rNTPs to growing RNA.

**TERMINATION**

- 5** At transcription stop site, polymerase releases completed RNA and dissociates from DNA.

