Some of the Features of RNA Transcription
Transcription in eukaryotes

In contrast to prokaryotes, eukaryotes have three types, designated:

RNA polymerase - I (rRNA),

RNA polymerase - II (mRNA) and

RNA polymerase - III (tRNA).
(2) Polyadenylation

- The 3' end of (most) transcripts is modified by polyadenylation
- The poly-A tail is usually about 200-250 nucleotides
- The poly A tail is not encoded by the gene but is added post-transcriptionally
Inhibitors of eukaryotic transcription

α-amanitin, a toxic component of the poisonous mushroom blocks mRNA synthesis by RNA polymerase II