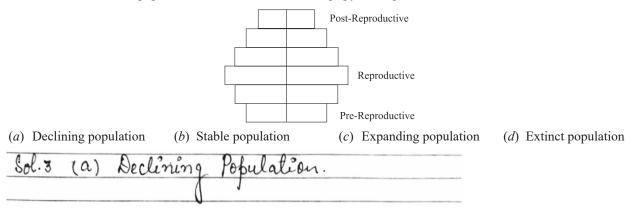
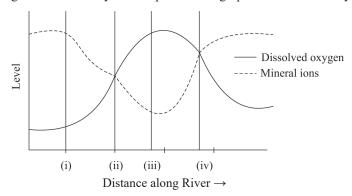
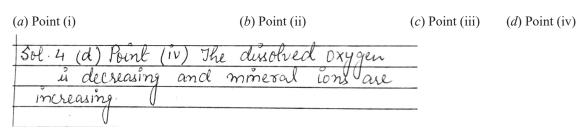
Sol. 2 (C) Promoter	Sigma(r)	RNA Polymerase
(d) Promoter	Sigma $(\sigma)$	DNA polymerase
(c) Promoter	Sigma (σ)	RNA polymerase
(b) Promoter	Rho $(\rho)$	RNA polymerase
(a) Terminator	Sigma (σ)	RNA polymerase
Region 'X'	Factor 'Y'	Enzyme 'Z'

3. The status of the human population reflected in the human age pyramid given below is:



**4.** The graph plotted below is based on the data collected by biology students with respect to the levels of oxygen at the specific points in the river flowing outside their city. Which point in the graph indicates the entry of untreated sewage in the river?





**5.** Given below are two columns. In Column I is the list of four enzymes and in Column II is the list of functions of the given enzymes. Which one of the following options shows the enzymes matched with their respective functions correctly?

Column I (Enzyme)

P. DNA Ligase

Q. Restriction exonuclease

Column II (Function)

i. Removes nucleotides from ends of DNA

ii. Extends primer on a DNA template