

Quiz 2

BT 601

Time: 40 min

Total Marks: 10

[Show all the steps]

1. Write six steps of Single-Cell Sequencing for MSCs.
2. Draw **Gel electrophoresis diagram** to show **autonomous Motion of the DNA motor** at different time points. [Hint: DNA motor (E+F) and its substrate (S) were incubated at a motor/substrate ratio for varying time periods and then resolved by gel electrophoresis.
3. Show schematically that the cargo is not dislodged from the wheel W while transport. Mention FRET properly.
4. Write the Gibson Assembly work flow.
5. Show possible difference in absorption bands of IR for non-cancerous and cancerous after 4h dewaxing displayed in the range from 4000 cm^{-1} to 750 cm^{-1} .

[Marks: 2+2+2+2+2 = 10]
