

## Worksheet: Biotechnology — Principles and Processes

Madhya Pradesh State Board · Class 12 · Biology · 5 questions · 11 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 11

**Q1.** Name the three steps of PCR and their temperatures. *[2 marks]*

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**Q2.** What is a restriction enzyme and why is it important in genetic engineering? *[2 marks]*

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**Q3.** Why is Taq polymerase used in PCR rather than ordinary DNA polymerase? *[2 marks]*

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**Q4.** What is the role of the selectable marker in a cloning vector? *[2 marks]*

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**Q5.** What is blue-white screening and how does it work? *[3 marks]*

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