

# Paper I Unit IV-Biotechnology

\* Required

1. Email address \*

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2. A Duchenne muscular dystrophy patient's family was screened for mutations or high risk probability by

*Check all that apply.*

- Fluorescently Labelled DNA sequencing
- Using Intragenic spacers
- Oligonucleotide Ligation
- PCR-RFLP

3. A patient showed symptoms of cystic fibrosis but tested negative for the common mutation. What would you recommend?

*Check all that apply.*

- Allele specific oligonucleotide
- RFLP
- ARMS
- Oligonucleotide Ligation

4. A murder was committed, the crime scene had two different blood splatters on the wall and floor. The initial investigation showed that the blood groups of both splatters were same, how would you identify the victim and the murderer?

*Check all that apply.*

- Mitochondria DNA sequencing
- Y chromosome sequencing
- MLP
- SLP

5. Sujay was suffering from diabetes. He was given the standard drug dose but his blood sugar levels remained the same even after taking the medication. In which category does he fall in

*Check all that apply.*

- Poor Metabolizer
- Ultra rapid Metabolizer
- Extensive Metabolizer
- Intermediate Metabolizer

6. Nicotine addiction is associated with mutation in

*Check all that apply.*

- CYP2D6
- CYP2A1
- CYP6D2
- CYP2A6

7. Pharmagenomics is focused on

*Check all that apply.*

- Pharmacodynamics
- Pharmacodynamics and Pharmacokinetics
- Pharmacokinetics
- Genome wide associate studies of metabolizers

8. Cigarette smoking addiction is

*Check all that apply.*

- Eugenetics
- Epigenetics
- Somatic Mutation
- All above the above

9. A person has high risk of developing psychosis but phenotypic symptoms are not seen. In psychiatry this called as

*Check all that apply.*

- Epistatis
- Expressivity
- Endophenotype
- Penetrance

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