

QP Code : 77125

(2 1/2 Hours)

[Total Marks : 75

- N.B.:** (1) All Questions are compulsory.
(2) All Questions carry equal marks.
(3) Draw neat labelled diagrams wherever necessary.
(4) Questions should be answered in order.

1. Describe the following:
 - (a) Hershey - Chase experiment. 07
 - OR
 - (a) Semi discontinuous replication. 07
 - (b) Enzymes involved in DNA replication. 08
 - OR
 - (b) Excision repair mechanism. 08

2. Explain the following:
 - (a) Trp Operon. 07
 - OR
 - (a) Effect of ionizing radiations. 07
 - (b) Euchromatin. 08
 - OR
 - (b) Transition and transversion. 08

3. Describe the following:
 - (a) Food additives as a source of toxic compounds. 07
 - OR
 - (a) Drugs of abuse. 07
 - (b) Venom of snake and fish. 08
 - OR
 - (b) Threshold dose and NOEL. 08

4. Explain the following:
 - (a) Absorption through membranes and rate of penetration. 07
 - OR
 - (a) Absorption of toxicants through respiratory tract. 07
 - (b) Phase I reactions. 08
 - OR
 - (b) Susceptibility of kidney and examples of nephrotoxicants. 08

TURN OVER

KS-Con. 1058-17.

5. Write short notes on:

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| (a) Priming. | | 04 |
| | OR | |
| (a) Recombination repair mechanism. | | 04 |
| (b) Deaminating agents. | | 04 |
| | OR | |
| (b) Chemical mutagens. | | 04 |
| (c) Nicotine as a natural toxicant. | | 04 |
| | OR | |
| (c) Mycotoxins. | | 04 |
| (d) Examples of neurotoxicants. | | 03 |
| | OR | |
| (d) Types of liver injury. | | 03 |
