- 6. 'RNA interference (RNAi)' technology has gained popularity in the last few years. Why?
  - It is used in developing gene silencing therapies.
  - It can be used in developing therapies for the treatment of cancer.
  - It can be used to develop hormone replacement therapies.
  - It can be used to produce crop plants that are resistant to viral pathogens.

Select the correct answer using the code given below.

- (a) 1, 2 and 4
- (b) 2 and 3
- (c) 1 and 3
- (d) 1 and 4 only
- 7. Recently, scientists observed the merger of giant 'blackholes' billions of lightyears away from the Earth. What is the significance of this observation?
  - (a) 'Higgs boson particles' were detected.
  - (b) 'Gravitational waves' were detected.
  - (c) Possibility of inter-galactic space travel through 'wormhole' was conffrmed.
  - (d) It enabled the scientists to understand 'singularity'.
- 8. Which of the following are the reasons for the occurrence of multi-drug resistance in microbial pathogens in India?
  - Genetic predisposition of some people
  - Taking incorrect doses of antibiotics to cure diseases

- Using antibiotics in livestock farming
- Multiple chronic diseases in some people

Select the correct answer using the code given below.

- (a) I and 2
- (b) 2 and 3 only
- (c) 1, 3 and 4
- (d) 2, 3 and 4
- 9. What is Cas9 protein that is often mentioned in news?
  - (a) A molecular scissors used in targeted gene editing
  - (b) A biosensor used in the accurate detection of pathogens in patients
  - (c) A gene that makes plants pestresistant
  - (d) A herbicidal substance synthesized in genetically modified crops
- 10. Which one of the following statements is not correct?
  - (a) Hepatitis B virus is transmitted much like HIV.
  - (b) Hepatitis B, unlike Hepatitis C, does not have a vaccine.
  - (c) Globally, the number of people infected with Hepatitis B and C viruses are several times more than those infected with HIV.
  - (d) Some of those infected with Hepatitis B and C viruses do not show the symptoms for many years.

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**M Lipman** 

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