

GENETIC ENGINEERING AND BIO TECHNOLOGY BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Created By [Careericons](#) Team

Q1. Assertion (A):

Scientists can cut apart and paste together DNA molecules at will, regardless of the source of the molecules.

Reason (R):

DNA fragments can be manipulated using restriction endonucleases and DNA ligases.

Code

- a) (A) is true, but (R) is false
 - b) Both (A) and (R) are true and (R) is the correct explanation of (A)
 - c) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
 - d) (A) is false, but (R) is true
-

Q2. Who synthesized the DNA in vitro?

- a) Edward Jenner
 - b) Arthur Kornberg
 - c) Robert Hooke
 - d) Joseph Lister
-

Q3. Assertion (A):

'Golden rice' is a biotechnological achievement to the benefit of consumers as much as the farmers.

Reason (R):

The yellow colour of this rice reflects a high level of beta carotene, a compound that is converted to vitamin A in the body.

Code

- a) (A) is true, but (R) is false

- b) Both (A) and (R) are true and (R) is the correct explanation of (A)
- c) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- d) (A) is false, but (R) is true
-

Q4. World level program 'Human Genome Project' is related with

- a) Genetic improvements of human breeds
- b) Establishment of Superman society
- c) Identification of colour distinct breeds
- d) Identification and mapping of human genes and its sequence

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Q5. Which of the following is a transgenic plant?

- a) Golden rice
- b) Buck wheat
- c) Macaroni wheat
- d) Triticale
-

Q6. Consider the following statements :

- Sex is determined by different factors in various species.
- Exchange of genetic material takes place in asexual reproduction.

Which of these statement(s) is/are correct ?

- a) Both A and B
- b) A only
- c) B only
- d) Neither A nor B
-

Q7. *Bacillus thuringiensis* (Bt) strains have been used for designing novel –

- a) Bio-mineralization processes
 - b) Bio-metallurgical techniques
 - c) Bio-insecticidal plants
 - d) Bio-fertilizers
-

Q8. In animals sex determination is due to

- a) A-chromosome
 - b) X-chromosome
 - c) Y-chromosome
 - d) B-chromosome
-

Q9. Consider the following as objectives of the New Science and Technology Policy, 2003 and state which is/are correctly stated, with the help of codes given below?

- Optimal utilisation of existing physical and knowledge resources.
- Development of innovative technologies.
- Development of systems and technologies for mitigation and management of natural hazards.
- Management of intellectual property.

Code

- a) 1, 3 and 4
 - b) Only 1 and 2
 - c) 1, 2 and 3
 - d) All the four
-

Q10. Which country has produced the first transgenic glowing pigs that are all green from inside out?

- a) Singapore
- b) Korea
- c) Japan

d) Taiwan

Q11. Which one of the following techniques can be used to establish the paternity of a child?

- a) Quantitative analysis of DNA
 - b) Protein analysis
 - c) Chromosome counting
 - d) DNA fingerprinting
-

Q12. Which of the following is recently evolved in Genetic Engineering?

- a) Gene splicing
 - b) Gene analysis
 - c) Gene mapping
 - d) Gene synthesis
-

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Q13. Other than resistance to pests, what are the prospects for which genetically engineered plants have been created?

- To enable them to withstand drought.
- To increase the nutritive value of the produce.
- To enable them to grow and do photosynthesis in space ships and space stations.
- To increase their shelf life.

Select the correct answer using the code given below.

- a) 1, 2 and 4
 - b) 1 and 2
 - c) 3 and 4
 - d) 1, 2, 3 and 4
-

Q14. DNA fingerprinting is used in the following area(s).

- a) Conservation of endangered living being only
- b) Forensic cases only
- c) Paternity dispute only
- d) All of the above

Q15. Gene is made of which chemical

- a) protein
- b) D.N.A.
- c) R.N.A.
- d) enzyme

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Answers to the above questions :

Q1. Answer: (b)

Q2. Answer: (b)

Q3. Answer: (b)

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Q4. Answer: (d)

Q5. Answer: (a)

Q6. Answer: (b)

Q7. Answer: (c)

Q8. Answer: (d)

Q9. Answer: (d)

Q10. Answer: (d)

Q11. Answer: (d)

Q12. Answer: (c)

Q13. Answer: (a)

Q14. Answer: (d)

Q15. Answer: (b)

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