

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

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

Created By [Careericons](#) Team

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**Q1.** Who has proposed for the first time the double helix model of DNA?

- a) Lamark and Darwin
  - b) Watson and Crick
  - c) Fisher and Haldoni
  - d) Hugo de Vries
- 

**Q2.** The American multinational company, Monsanto, has produced an insect-resistant cotton variety that is undergoing field trials in India. A toxin gene from which one of the following bacteria has been transferred to this transgenic cotton?

- a) Bacillus amyloliquifaciens
  - b) Bacillus subtilis
  - c) Bacillus thuringiensis
  - d) Bacillus globlii
- 

**Q3.** The micro-organism which is associated with the production of Bt cotton is a

- a) Blue-green algae
  - b) Fungus
  - c) Bacterium
  - d) Virus
- 

**Q4.** Golden rice is a transgenic crop of the future with the following improved trait

- 
- a) High protein content

- b) High lysine (essential amino acid) content
- c) Insect resistance
- d) High vitamin-A content

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**Q5.** A genetically engineered form of brinjal, known as the Bt brinjal has been developed. The objective of this is

- a) To make it drought resistant
- b) To make in pest-resistant
- c) To improve its taste and nutritive qualities
- d) To make it shell-life longer

**Q6.** Match Column-I with Column-II and select the correct answer using the code given below the lists.

Column-I	Column-II
A. Incomplete dominance	I. Drosophila
B. Mendelian disorder	II. Antirrhinum sp
C. Transforming principle	III. Griffith
D. Dihybrid cross	IV. Haemophilia

Select the correct answer using the codes given below the lists: A B C D

- a) A – II; B – III; C – IV; D – I
- b) A – I; B – IV; C – III; D – II
- c) A – IV; B – II; C – III; D – I
- d) A – II; B – IV; C – III; D – I

**Q7.** Consider the following statements and choose the correct ones using the codes given below.

- The flavr-savr tomato was the first genetically engineered crop product to be commercialised.
- Ripe fruits of flavr-savr remain firm for longer duration and can be transported to market after vine-ripening.
- Ripe fruits of flavr-savr have colour but not the full array of vine ripened tomato flavours.

Code

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

**Q8.** Amniocentesis is a method used to determine the

- a) Sequence of amino acids in protein
  - b) Foetal sex
  - c) Kind of amino acids
  - d) Type of hormones
- 

**Q9.** Which one of the following is not a genetic disorder?

- a) Haemophilia
  - b) Colour blindness
  - c) Down's syndrome
  - d) Xerophthalmia
- 

**Q10.** Which of the following statements is/are correct regarding vegetative propagation of plants?

- Vegetative propagation produces clonal population.
- Vegetative propagation helps in eliminating the virus.
- Vegetative propagation can be practised most of the year.

Select the correct answer using the code given below.

- a) Only 1 and 3

- b) Only 1
  - c) Only 2 and 3
  - d) 1, 2 and 3
- 

**Q11.** For which desirable character the transgenic crop 'Golden Rice' is produced?

- a) Insulin
  - b) Vitamin 'A'
  - c) Essential Amino Acids
  - d) Characteristic Starch
- 

**Q12.** Consider the following techniques/ phenomena.

- Budding and grafting in fruit plants.
- Cytoplasmic male sterility.
- Gene silencing.

Which of the above is/are used to create transgenic crops?

- a) 1 and 3
- b) Only 1
- c) 2 and 3
- d) None

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**Q13. Assertion (A):**

Insect resistant transgenic cotton has been produced by inserting Bt gene.

**Reason (R):**

The Bt gene is derived from a bacterium.

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
- 

**Q14.** The first crime ever solved using the DNA fingerprinting technique was in England in the year

- a) 1983  
b) 1963  
c) 1973  
d) 1993
- 

**Q15.** What is the application of Somatic Cell Nuclear Transfer Technology?

- a) Reproductive cloning of animals  
b) Production of biolarvicides  
c) Manufacture of biodegradable plastics  
d) Production of organisms free of diseases
- 

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**Answers to the above questions :**

**Q1. Answer: (b)**

**Q2. Answer: (c)**

**Q3. Answer: (c)**

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VELOCITY)

FORCE OF GRAVITY, SOLIDS AND FLUIDS      MOTION UNDER GRAVITY

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**Q4. Answer: (d)**

**Q5. Answer: (b)**

**Q6. Answer: (d)**

**Q7. Answer: (a)**

**Q8. Answer: (b)**

**Q9. Answer: (d)**

**Q10. Answer: (a)**

**Q11. Answer: (b)**

**Q12. Answer: (c)**

**Q13. Answer: (b)**

**Q14. Answer: (a)**

**Q15. Answer: (a)**

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