



# BIOLOGY

## BOOKS - TRUEMAN BIOLOGY

### NCERT Exemplar Questions +2 (BIOTECHNOLOGY AND ITS APPLICATIONS)

**Mcqs**

1. Bt cotton is not

A. a GM plant

B. insect resistant

C. a bacterial gene expressing system

D. resistant to all pesticides

**Answer: d**



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**2. C-peptide of human insulin is**

A. a part of mature insulin molecule

B. responsible for formation of disulphide  
bridges

C. removed during maturation of pro-  
insulin to insulin

D. responsible for its biological activity

**Answer: c**



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**3. GEAC stands for**

A. Genome Engineering Action Com'mit- tee

B. Ground Environment Action Committee

C. Genetic Engineering Approval Commit-  
tee

D. Genetic and Environment Approval Com-  
mittee

**Answer: c**



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4.  $\alpha - 1$  antitrypsin is

A. 1) an antacid

B. 2) an enzyme

C. 3) used to treat arthritis

D. 4) used to treat emphysema

**Answer: d**



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5. A probe which is a molecule used to locate specific sequence in a mixture of DNA or RNA molecules could be

A. i) a single stranded RNA

B. ii) a single stranded DNA

C. iii) either RNA or DNA

D. iv) can be ssDNA but not ssRNA

**Answer: c**



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6. Choose the correct option regarding retrovirus

A. 1) An RNA virus that can synthesise DNA during infection

B. 2) A DNA virus that can synthesise RNA during infection

C. 3) A ssDNA virus

D. 4) A dsRNA virus

**Answer: a**



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7. The site of production of ADA in the body is

A. bone marrow

B. lymphocytes

C. blood plasma

D. monocytes

**Answer: b**



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**8. A protoxin is**

A. a primitive toxin

B. a denatured toxin

C. toxin produced by protozoa

D. inactive toxin

**Answer: d**



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9. Pathophysiology is the

- A. study of physiology of pathogen
- B. study of normal physiology of host
- C. study of altered physiology of host
- D. none of the above

**Answer: c**



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10. The trigger for activation of toxin of *Bacillus thuringiensis* is

A. 1) acidic pH of stomach

B. 2) high temperature

C. 3) alkaline pH of gut

D. 4) mechanical action in the insect gut

**Answer: c**



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## 11. Golden rice is

- A. a variety of rice grown along the yellow river in China
- B. long stored rice having yellow colour tint
- C. a transgenic rice having gene for  $\beta$  carotene
- D. wild variety of rice with yellow coloured grains

**Answer: c**



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**12. In RNAi, genes are silenced using**

A. ss DNA

B. ds DNA

C. ds RNA

D. ss RNA

**Answer: c**



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**13.** The first clinical gene therapy was done for the treatment of

A. AIDS

B. Cancer

C. Cystic fibrosis

D. SCID (Severe Combined Immuno

Deficiency resulting from deficiency of

ADA

**Answer: d**



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**14.** ADA is an enzyme which is deficient in a genetic disorder SCID. What is the full form of ADA ?

- A. Adenosine deoxy aminase
- B. Adenosine deaminase
- C. Aspartate deaminase
- D. Arginine deaminase

**Answer: b**



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**15.** Silencing of a gene could be achieved through the use of

A. short interfering RNA (RNAi)

B. antisense RNA

C. by both

D. none of the above



**Answer: c**



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