

PYQSide

NEET BIOTECHNOLOGY AND ITS APPLICATIONS — PYQS

Max. Marks: 296

Questions: 74

Section A (MCQ)

Q.1 Match **List I** with **List II** : [NEET (UG) 2026]

List-I		List-II	
A.	Genetically modified organism	I.	<i>Agrobacterium tumefaciens</i>
B.	Thermostable DNA polymerase	II.	Bt cotton
C.	Ti plasmid	III.	<i>Thermus aquaticus</i>
D.	pBR322	IV.	<i>Escherichia coli</i>

- (1) A-II, B-I, C-IV, D-III (2) A-II, B-III, C-I, D-IV
(3) A-I, B-IV, C-III, D-II (4) A-I, B-II, C-IV, D-III

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- Q.2** Arrange the following steps of somatic hybridisation in a correct sequence.
A. Digestion of cell walls.
B. Isolation of naked protoplasts.
C. Fusion of protoplasts to get hybrid protoplast.
D. Isolation of single cells from two different varieties of plants.
E. Growing of hybrid protoplast to form a new plant.
Choose the correct answer from the options given below : [NEET (UG) 2026]
(1) D, B, A, E, C (2) E, A, B, C, D
(3) E, B, A, D, C (4) D, A, B, C, E

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- Q.3** The toxin proteins isolated from *Bacillus thuringiensis*, coded by which of the following genes would control cotton bollworms and corn borer, respectively? [NEET (UG) 2026]
(1) cryIAC and cryIIAb (2) cryIAC and cryIIIAb
(3) cryIAC and cryIAb (4) cryIIAb and cryIAC

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- Q.4** The human protein named α -1-antitrypsin, obtained from transgenic animals, is used for the treatment of _____. [NEET (UG) 2026]

- (1) Alzheimer's disease (2) Rheumatoid arthritis
(3) Emphysema (4) Cystic fibrosis

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- Q.5** The inactive form of Bt toxin is converted to the active form in the insect gut _____. [RE-NEET (UG) 2026]
(1) by nucleases (2) due to alkaline pH
(3) due to acidic pH (4) by proteases

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- Q.6** Which of the following genetically engineered organisms was used by Eli Lilly to prepare human insulin? [NEET (UG) 2025]
(1) Virus (2) Phage
(3) Bacterium (4) Yeast

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- Q.7** Silencing of specific mRNA is possible via RNAi because of [NEET (UG) 2025]
(1) Complementary tRNA
(2) Non-complementary ssRNA
(3) Complementary dsRNA
(4) Inhibitory ssRNA

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- Q.8** Why can't insulin be given orally to diabetic patients? [NEET (UG) 2025]
(1) Because of structural variation
(2) Its bioavailability will be increased
(3) Human body will elicit strong immune response
(4) It will be digested in Gastro-Intestinal (GI) tract

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- Q.9** Given below are two statements:
Statement-I: Bt toxins are insect group specific and coded by a gene cry IAC.
Statement-II: Bt toxin exists as inactive protoxin in *B. thuringiensis*. However, after ingestion by the insect the inactive protoxin gets converted into

active form due to acidic pH of the insect gut.

In the light of the above statements, choose the correct answer from the options given below:

[NEET (UG) 2024]

- (1) Both Statement-I and Statement-II are true
- (2) Both Statement-I and Statement-II are false
- (3) Statement-I is true but Statement-II is false
- (4) Statement-I is false but Statement-II is true

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Q.10 Match **List I** with **List II**

List-I		List-II	
A.	α -1 antitrypsin	I.	Cotton bollworm
B.	Cry IAb	II.	ADA deficiency
C.	Cry IAc	III.	Emphysema
D.	Enzyme replacement therapy	IV.	Corn borer

Choose the correct answer from the options given below:

[NEET (UG) 2024]

- (1) A-II, B-I, C-IV, D-III (2) A-III, B-I, C-II, D-IV
- (3) A-III, B-IV, C-I, D-II (4) A-II, B-IV, C-I, D-III

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Q.11 Given below are two statements:

Statement-I: The Indian Government has set up GEAC, which will make decisions regarding the validity of GM research.

Statement-II: Biopiracy is the term used to refer to the use of bio-resources by native people.

In the light of the above statements, choose the correct answer from the options given below :

[RE-NEET (UG) 2024]

- (1) Statement-I is true but Statement-II is false
- (2) Statement-I is false but Statement-II is true
- (3) Both Statement-I and Statement-II are true
- (4) Both Statement-I and Statement-II are false

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Q.12 Match **List-I** with **List-II** : [RE-NEET (UG) 2024]

List-I		List-II	
A.	Genetically engineered Human Insulin	I.	Gene therapy
B.	GM Cotton	II.	<i>E. coli</i>
C.	ADA Deficiency	III.	Antigen-antibody interaction
D.	ELISA	IV.	<i>Bacillus thuringiensis</i>

- (1) A-III, B-II, C-IV, D-I (2) A-II, B-I, C-IV, D-III
- (3) A-IV, B-III, C-I, D-II (4) A-II, B-IV, C-I, D-III

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Q.13 The Bt toxin in genetically engineered Bt cotton kills the pest by: [RE-NEET (UG) 2024]

- (1) Creating pores in the midgut
- (2) Damaging the respiratory system
- (3) Degenerating the nervous system
- (4) Altering the pH of body fluids

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Q.14 Following are the steps involved in action of toxin in Bt. Cotton

- A. The inactive toxin converted into active form due to alkaline pH of gut of insect.
- B. *Bacillus thuringiensis* produces crystals with toxic insecticidal proteins.
- C. The alkaline pH solubilises the crystals.
- D. The activated toxin binds to the surface of midgut cells, creates pores and causes death of the insect.
- E. The toxin proteins exist as inactive protoxins in bacteria.

Choose the correct sequence of steps from the options given below:

[RE-NEET (UG) 2024]

- (1) $E \rightarrow C \rightarrow B \rightarrow A \rightarrow D$
- (2) $B \rightarrow C \rightarrow A \rightarrow E \rightarrow D$
- (3) $A \rightarrow E \rightarrow B \rightarrow D \rightarrow C$
- (4) $B \rightarrow E \rightarrow C \rightarrow A \rightarrow D$

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Q.15 Given below are two statements :

Statement-I: RNA interference takes place in all Eukaryotic organisms as method of cellular defense.

Statement-II: RNAi involves the silencing of a specific mRNA due to a complementary single-stranded RNA molecule that binds and prevents translation of mRNA

In the light of the above statements, choose the correct answer from the options given below.

[RE-NEET (UG) 2024]

- (1) Statement-I is true but Statement-II is false.
- (2) Statement-I is false but Statement-II is true.
- (3) Both Statement-I and Statement-II are true.
- (4) Both Statement-I and Statement-II are false.

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Q.16 Which one of the following techniques does not serve the purpose of early diagnosis of a disease for its early treatment? [NEET (UG) 2023]

- (1) Serum and Urine analysis
- (2) Polymerase Chain Reaction (PCR) technique
- (3) Enzyme Linked Immuno-Sorbent Assay (ELISA) technique
- (4) Recombinant DNA Technology

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Q.17 Transposons can be used during which one of the following? [NEET (UG) 2022]

- (1) Polymerase Chain Reaction
- (2) Gene Silencing
- (3) Autoradiography
- (4) Gene sequencing

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Q.18 In gene therapy of Adenosine Deaminase (ADA) deficiency, the patient requires periodic infusion of genetically engineered lymphocytes because:

[NEET (UG) 2022]

- (1) Retroviral vector is introduced into these lymphocytes.
- (2) Gene isolated from marrow cells producing ADA is introduced into cells at embryonic stages
- (3) Lymphocytes from patient's blood are grown in culture, outside the body
- (4) Genetically engineered lymphocytes are not immortal cells.

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Q.19 Statements related to human Insulin are given below.

Which statements is/are correct about genetically engineered Insulin?

- A. Pro-hormone insulin contains extra stretch of C-peptide
- B. A-peptide and B-peptide chains of insulin were produced separately in *E. coli*, extracted and combined by creating disulphide bond between them.
- C. Insulin used for treating Diabetes was extracted from cattle and pigs.
- D. Pro-hormone Insulin needs to be processed for converting into a mature and functional hormone.
- E. Some patients develop allergic reactions to the foreign insulin.

Choose the most appropriate answer from the options given below :

[NEET (UG) 2022]

- (1) A, B and D only
- (2) B only
- (3) C and D only
- (4) C, D and E only

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Q.20 Milk of transgenic 'Cow Rosie' was nutritionally more balanced product for human babies than natural cow milk because it contained:

[NEET (UG) 2022 (Phase 2)]

- (1) Human enzyme Adenosine Deaminase (ADA)
- (2) Human protein α -1-antitrypsin
- (3) Human alpha-lactalbumin
- (4) Human insulin-like growth factor

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Q.21 When gene targeting involving gene amplification is attempted in an individual's tissue to treat disease, it is known as :

[NEET (UG) 2021]

- (1) Safety testing
- (2) Biopiracy
- (3) Gene therapy
- (4) Molecular diagnosis

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Q.22 Which of the following is not an application of PCR (Polymerase Chain Reaction)? [NEET (UG) 2021]

- (1) Detection of gene mutation
- (2) Molecular diagnosis
- (3) Gene amplification
- (4) Purification of isolated protein

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Q.23 Now-a-days it is possible to detect the mutated gene causing cancer by allowing radioactive probe to hybridise to its complementary DNA in a clone of cells, followed by its detection using autoradiography because:

[NEET (UG) 2021]

- (1) mutated gene does not appear on photographic film as the probe has complementarity with it
- (2) mutated gene partially appears on a photographic film
- (3) mutated gene completely and clearly appears on a photographic film
- (4) mutated gene does not appear on a photographic film as the probe has no complementarity with it

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Q.24 With regard to insulin choose correct options.

- A. C-peptide is not present in mature insulin.
- B. The insulin produced by rDNA technology has C-peptide.
- C. The pro-insulin has C-peptide
- D. A-peptide and B-peptide of insulin are interconnected by disulphide bridges.

Choose the correct answer from the options given below.

[NEET (UG) 2021]

- (1) A and D only (2) B and D only
(3) B and C only (4) A, C and D only

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Q.25 For effective treatment of the disease, early diagnosis and understanding its pathophysiology is very important. Which of the following molecular diagnostic techniques is very useful for early detection? [NEET (UG) 2021]

- (1) Hybridization Technique
(2) Western Blotting Technique
(3) Southern Blotting Technique
(4) ELISA Technique

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Q.26 The Adenosine deaminase deficiency results into [NEET (UG) 2021]

- (1) Addison's disease
(2) Dysfunction of immune system
(3) Parkinson's disease
(4) Digestive disorder

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Q.27 Bt cotton variety that was developed by the introduction of toxin gene of *Bacillus thuringiensis* (Bt) is resistant to [NEET (UG) 2020]

- (1) Insect predators (2) Insect pests
(3) Fungal diseases (4) Plant nematodes

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full solution



Q.28 Which of the following statements is not correct? [NEET (UG) 2020]

- (1) In man insulin is synthesised as a proinsulin
(2) The proinsulin has an extra peptide called C-peptide.
(3) Genetically engineered insulin is produced in *E. coli*.
(4) The functional insulin has A and B chains linked together by hydrogen bonds.

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Q.29 Match the following columns and select the correct option. [NEET (UG) 2020]

Column-I		Column-II	
a.	Bt cotton	i.	Gene therapy
b.	Adenosine deaminase deficiency	ii.	Cellular defence
c.	RNAi	iii.	Detection of HIV infection

Column-I		Column-II	
d.	PCR	iv.	<i>Bacillus thuringiensis</i>

- (1) (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv)
(2) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
(3) (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)
(4) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)

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Q.30 What triggers activation of protoxin to active Bt toxin of *Bacillus thuringiensis* in boll worm? [NEET (UG) 2019]

- (1) Acidic pH of stomach
(2) Body temperature
(3) Alkaline pH of gut
(4) Moist surface of midgut

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Q.31 Which of the following is true for Golden rice? [NEET (UG) 2019]

- (1) It is drought tolerant, developed using *Agrobacterium* vector.
(2) It has yellow grains, because of a gene introduced from a primitive variety of rice.
(3) It is Vitamin A enriched, with a gene from daffodil.
(4) It is pest resistant, with a gene from *Bacillus thuringiensis*.

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Q.32 Which of the following is commonly used as a vector for introducing a DNA fragment in human lymphocytes? [NEET 2018]

- (1) Retrovirus (2) Ti plasmid
(3) λ phage (4) pBR322

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full solution



Q.33 In India, the organisation responsible for assessing the safety of introducing genetically modified organisms for public use is [NEET 2018]

- (1) Indian Council of Medical Research (ICMR)
(2) Council for Scientific and Industrial Research (CSIR)
(3) Research Committee on Genetic Manipulation (RCGM)
(4) Genetic Engineering Appraisal Committee (GEAC)

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Q.34 A 'new' variety of rice was patented by a foreign company, though such varieties have been present in India for a long time. This is related to

[NEET 2018]

- (1) Co-667 (2) Sharbati Sonora
(3) Lerma Rojo (4) Basmati

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Q.35 Use of bioresources by multinational companies and organisations without authorisation from the concerned country and its people is called

[NEET 2018]

- (1) bio-infringement (2) biodegradation
(3) biopiracy (4) bioexploitation

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Q.36 The two polypeptides of human insulin are linked together by

[NEET 2016 (Phase 1)]

- (1) Hydrogen bonds (2) Covalent bond
(3) Disulphide bridges (4) Phosphodiester bond

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Q.37 Which part of the tobacco plant is infected by *Meloidogyne incognita* ?

[NEET 2016 (Phase 1)]

- (1) Flower (2) Stem (3) Leaf (4) Root

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Q.38 Which kind of therapy was given in 1990 to a four-year-old girl with adenosine deaminase [ADA] deficiency ?

[NEET 2016 (Phase 2)]

- (1) Radiation therapy (2) Immunotherapy
(3) Gene therapy (4) Chemotherapy

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Q.39 Golden rice is a genetically modified crop plant where the incorporated gene is meant for biosynthesis of -

[AIPMT 2015]

- (1) Vitamin C (2) Omega 3
(3) Vitamin A (4) Vitamin B

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Q.40 In Bt cotton, the Bt toxin present in plant tissue as pro-toxin is converted into active toxin due to :

[AIPMT 2015 (Cancelled)]

- (1) action of gut micro-organisms
(2) presence of conversion factors in insect gut
(3) alkaline pH of the insect gut
(4) acidic pH of the insect gut

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Q.41 Which body of the Government of India regulates GM research and safety of introducing GM organisms for public services ?

[AIPMT 2015 (Cancelled)]

- (1) Research Committee on Genetic Manipulation
(2) Genetic Engineering Approval Committee
(3) Indian Council of Agricultural Research
(4) Bio-safety committee

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Q.42 The crops engineered for glyphosate are resistant/tolerant to :

[AIPMT 2015 (Cancelled)]

- (1) Bacteria (2) Herbicides
(3) Fungi (4) Insects

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Q.43 The first human hormone produced by recombinant DNA technology is :

[AIPMT 2014]

- (1) Estrogen (2) Insulin
(3) Thyroxin (4) Progesterone

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Q.44 Which of the following Bt crops is being grown in India by the farmers ?

[NEET 2013]

- (1) Soybean (2) Cotton (3) Brinjal (4) Maize

Scan or tap for the full solution



Q.45 RNA interference involves :-

[NEET 2013 (Karnataka)]

- (1) Interference of RNA in synthesis of DNA
(2) Synthesis of cDNA from RNA using reverse transcriptase
(3) Synthesis of mRNA from DNA
(4) Silencing of specific mRNA due to complementary RNA

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Q.46 Which one of the following vectors is used to replace the defective gene in gene therapy ?

[NEET 2013 (Karnataka)]

- (1) Ti plasmid (2) Cosmid
(3) Ri plasmid (4) Adenovirus

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Q.47 Tobacco plants resistant to a nematode have been developed by the introduction of DNA that produced (in the host cells) :

[AIPMT 2012 (Mains)]

- (1) An antifeedant
- (2) A toxic protein
- (3) Both sense and anti-sense RNA
- (4) A particular hormone

Scan or tap for the
full solution



Q.48 The first clinical gene therapy was given for treating

[AIPMT 2012 (Mains)]

- (1) Rheumatoid arthritis
- (2) Adenosine deaminase deficiency
- (3) Diabetes mellitus
- (4) Chicken pox

Scan or tap for the
full solution



Q.49 A single strand of nucleic acid tagged with a radioactive molecule is called

[AIPMT 2012 (Prelims)]

- (1) Probe
- (2) Selectable marker
- (3) Vector
- (4) Plasmid

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full solution



Q.50 Consumption of which one of the following foods can prevent the kind of blindness associated with vitamin 'A' deficiency?

[AIPMT 2012 (Prelims)]

- (1) Flavr Savr tomato
- (2) Canola
- (3) Bt-brinjal
- (4) Golden rice

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Q.51 *Bacillus thuringiensis* forms protein crystals which contain insecticidal protein. This protein:

[AIPMT 2011 (Mains)]

- (1) is activated by acid pH of the foregut of the insect pest.
- (2) binds with epithelial cells of midgut of the insect pest ultimately killing it
- (3) is coded by several genes including the gene cry
- (4) does not kill the carrier bacterium which is itself resistant to this toxin

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full solution



Q.52 Silencing of mRNA has been used in producing transgenic plants resistant to:

[AIPMT 2011 (Mains)]

- (1) White rusts
- (2) Nematodes
- (3) Bacterial blights
- (4) Bollworms

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full solution



Q.53 Maximum number of existing transgenic animals is of :

[AIPMT 2011 (Prelims)]

- (1) Mice
- (2) Cow
- (3) Pig
- (4) Fish

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full solution



Q.54 The process of RNA interference has been used in the development of plants resistant to :

[AIPMT 2011 (Prelims)]

- (1) Nematodes
- (2) Fungi
- (3) Viruses
- (4) Insects

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full solution



Q.55 Which one of the following is now being commercially produced by biotechnological procedures?

[AIPMT 2010 (Mains)]

- (1) Insulin
- (2) Morphine
- (3) Nicotine
- (4) Quinine

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full solution



Q.56 DNA or RNA segment tagged with a radioactive molecule is called –

[AIPMT 2010 (Prelims)]

- (1) Clone
- (2) Probe
- (3) Plasmid
- (4) Vector

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Q.57 The genetically-modified (GM) brinjal in India has been developed for:

[AIPMT 2010 (Prelims)]

- (1) Enhancing shelf life
- (2) Insect-resistance
- (3) Drought-resistance
- (4) Enhancing mineral content

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full solution



Q.58 Genetic engineering has been successfully used for producing –

[AIPMT 2010 (Prelims)]

- (1) transgenic models for studying new treatments for certain cardiac disease
- (2) animals like bulls for farm work as they have super power
- (3) transgenic mice for testing safety of polio vaccine before use in humans
- (4) transgenic Cow-Rosie which produces high fat milk for making ghee

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full solution



Q.59 Some of the characteristics of Bt cotton are –

[AIPMT 2010 (Prelims)]

- (1) High yield and production of toxic protein crystals which kill dipteran pests
- (2) High yield and resistance to bollworms
- (3) Long fibre and resistance to aphids
- (4) Medium yield, long fibre and resistance to beetle pests

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Q.60 An improved variety of transgenic basmati rice

[AIPMT 2010 (Prelims)]

- (1) gives high yield but has no characteristic aroma
- (2) does not require chemical fertilizers and growth hormones
- (3) is completely resistant to all insect pests and diseases of paddy
- (4) gives high yield and is rich in vitamin A

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Q.61 The genetic defect – adenosine deaminase (ADA) deficiency may be cured permanently by

[AIPMT 2009]

- (1) Introducing bone marrow cells producing ADA into cells at early embryonic stages
- (2) Periodic infusion of genetically engineered lymphocytes having functional ADA cDNA
- (3) Administering adenosine deaminase activators
- (4) Enzyme replacement therapy

Scan or tap for the full solution



Q.62 What is true about Bt toxin? [AIPMT 2009]

- (1) The activated toxin enters the ovaries of the pest to sterilise it and thus prevent its multiplication.
- (2) Bt protein exists as active toxin in the *Bacillus*
- (3) The concerned *Bacillus* has antitoxins
- (4) The inactive protoxin gets converted into active form in the insect gut

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Q.63 Transgenic plants are the ones - [AIPMT 2009]

- (1) Produced after protoplast fusion in artificial medium
- (2) Produced by a somatic embryo in artificial medium
- (3) Generated by introducing foreign DNA into a cell and regenerating a plant from that cell
- (4) Grown in artificial medium after hybridization in the field

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Q.64 What is antisense technology? [AIPMT 2009]

- (1) RNA polymerase producing DNA
- (2) Production of somaclonal variants in tissue cultures
- (3) When a piece of RNA that is complementary in sequence is used to stop expression of a specific gene
- (4) A cell displaying a foreign antigen used for synthesis of antigens

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Q.65 Cry I endotoxins obtained from *Bacillus thuringiensis* are effective against:

[AIPMT 2008]

- | | |
|----------------|----------------|
| (1) Mosquitoes | (2) Flies |
| (3) Nematodes | (4) Boll worms |

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Q.66 Main objective of production/use of herbicide resistant GM crops is to: [AIPMT 2008]

- (1) eliminate weeds from the field without the use of manual labour
- (2) eliminate weeds from the field without the use of herbicides
- (3) encourage eco-friendly herbicides
- (4) reduce herbicide accumulation in food articles for health safety

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Q.67 Human insulin is being commercially produced from a transgenic species of: [AIPMT 2008]

- | | |
|------------------------|--------------------------|
| (1) <i>Escherichia</i> | (2) <i>Mycobacterium</i> |
| (3) <i>Rhizobium</i> | (4) <i>Saccharomyces</i> |

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Q.68 A transgenic food crop which may help in solving the problem of night blindness in developing countries is [AIPMT 2008]

- | | |
|-------------------------|-----------------|
| (1) Flavr Savr tomatoes | (2) Bt soybean |
| (3) Starlink maize | (4) Golden rice |

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Q.69 Golden rice is a promising transgenic crop. When released for cultivation, it will help in [AIPMT 2006]

- (1) Herbicide tolerance
- (2) Alleviation of vitamin A deficiency
- (3) Producing a petrol-like fuel from rice
- (4) Pest resistance

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Q.70 *Bacillus thuringiensis* (Bt) strains have been used for designing novel - [AIPMT 2005]

- (1) Bio-metallurgical techniques
- (2) Biofertilizers
- (3) Bioinsecticidal plants
- (4) Bio-mineralization processes

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Q.71 Golden rice is a transgenic crop of the future with the following improved trait - [AIPMT 2005]

- (1) High lysine (essential amino acid) content
- (2) High protein content
- (3) Insect resistance
- (4) High vitamin A content

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Q.72 ELISA is used to detect viruses, where the key reagent is :- [AIPMT 2004]

- (1) Catalase
- (2) RNase
- (3) DNA probes
- (4) Alkaline phosphatase

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Q.73 Maximum application of animal cell culture technology today is in the production of :- [AIPMT 2003]

- (1) Interferons
- (2) Vaccines
- (3) Edible proteins
- (4) Insulin

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Q.74 ELISA is used to detect viruses, where the key reagent is :- [AIPMT 2003]

- (1) Alkaline phosphatase
- (2) RNase
- (3) DNA probes
- (4) Catalase

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ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	2	4	3	3	2	3	3	4	3	3	1
Ques.	12	13	14	15	16	17	18	19	20	21	22
Ans.	4	1	4	1	1	2	4	2	3	3	4
Ques.	23	24	25	26	27	28	29	30	31	32	33
Ans.	4	4	4	2	2	4	3	3	3	1	4
Ques.	34	35	36	37	38	39	40	41	42	43	44
Ans.	4	3	3	4	3	3	3	2	2	2	2
Ques.	45	46	47	48	49	50	51	52	53	54	55
Ans.	4	4	3	2	1	4	2	2	1	1	1
Ques.	56	57	58	59	60	61	62	63	64	65	66
Ans.	2	2	3	2	4	1	4	3	3	4	1
Ques.	67	68	69	70	71	72	73	74			
Ans.	1	4	2	3	4	4	2	1			