



# 10TH SSC MCQ - CH 8 - Cell Biology and Biotechnology

DATE: \_\_\_\_\_

TIME: 30 Min

MARKS: 30

SEAT NO:

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**Note:-**

1. All Questions are compulsory.
2. Numbers on the right indicate full marks.

- Q.1 The maintenance of honey bee colonies in manmade hive is known as \_\_\_\_\_ (1)  
A) Vermiculture    B) Apiculture  
C) Agriculture    D) Tissue culture

**Ans : B**

- Q.2 Which of the following bacterium is useful for genetic engineering experiments? (1)  
A) *E.coli*    B) *Klebsiella*  
C) *Lactobacilli*    D) *Streptococcus*

**Ans : A**

- Q.3 Which of the following disease uses cell therapy for treatment? (1)  
A) Rickets    B) Alzheimer's  
C) Haemophilia    D) Jaundice

**Ans : B**

- Q.4 The main characteristic feature of \_\_\_\_\_ is its pluripotency. (1)  
A) Germ cells    B) Stem cells  
C) Cancer cells    D) All of these

**Ans : B**

- Q.5 Growing of plants in nutrient-rich mist environment without the use of soil. (1)  
A) Aeroponics    B) Hydroponics  
C) Aquaponics    D) Geoponics

**Ans : A**

- Q.6 Alcohol is produced from sugar molasses with the help of transgenic \_\_\_\_\_. (1)  
A) *E. coli*    B) Yeast  
C) Potato    D) Rice

**Ans : B**

- Q.7 The sheep Dolly was born in \_\_\_\_\_. (1)  
A) India    B) Scotland  
C) Malaysia    D) China

**Ans : B**

- Q.8 \_\_\_\_\_ pattern of offspring is 50 % similar to father and 50 % similar to mother? (1)  
A) DNA finger print    B) Karyotype  
C) Phenotype    D) Uniform

**Ans : A**

- Q.9 \_\_\_\_\_ arises due to genetic changes in hepatocytes. (1)  
A) Phenylketonuria    B) Anaemia  
C) Cholera              D) Jaundice  
**Ans : B**
- Q.10 \_\_\_\_\_ has developed a transgenic variety of tobacco. (1)  
A) Indian Institute of Science              B) Indian Institute of Technology  
C) Indian Institute of Engineering    D) Indian Institute of Pharmacology  
**Ans : A**
- Q.11 Which of the following is referred to as superbug, which cleans up oil spills? (1)  
A) *Pseudomonas putida*    B) *Vibrio Cholerae*  
C) *Plasmodium vivax*              D) *Pseudomonas denitrificans*  
**Ans : A**
- Q.12 *Chlorella* species are commonly used in the removal of \_\_\_\_\_. (1)  
A) Hydrocarbons    B) Heavy Metals  
C) Biofertilizer              D) Medicine  
**Ans : A**
- Q.13 Which of the following disease can be cured by genetic engineering? (1)  
A) Jaundice    B) Thalassemia  
C) Cholera    D) Jaundice  
**Ans : B**
- Q.14 Which of the following is the final step of tissue culture? (1)  
A) Rooting              B) Hardening  
C) Treatment    D) Shooting  
**Ans : B**
- Q.15 What is Golden rice famous for? (1)  
A) Vitamin A    B) Resistance  
C) Fatal              D) Immunity  
**Ans : A**
- Q.16 Who is considered as the "Milk man of India"? (1)  
A) Dr. Sabarish Aryan    B) Dr. Varghese Kurien  
C) Dr. Arun Krishnan    D) Dr. M.S. Swaminathan  
**Ans : B**
- Q.17 Who is considered the father of blue revolution in India? (1)  
A) Dr. Varghese Kurien    B) Dr. Arun Krishnan  
C) Dr. Durgesh Patel              D) Dr. Rutuja Salaskar  
**Ans : B**
- Q.18 Which of the following is considered as an example for GMO? (1)  
A) BT cotton              B) Flavr-savr tomato  
C) Golden Rice    D) All of these  
**Ans : D**

- Q.19 Incorporation of biotechnology in agriculture is referred to as \_\_\_\_\_. (1)  
A) White revolution    B) Blue revolution  
C) Green revolution    D) Black revolution  
**Ans : C**
- Q.20 Which of the following is a bio-fertilizer? (1)  
A) *Nostoc*    B) *Azolla*  
C) *Rhizobium*    D) Both (a) and (b)  
**Ans : D**
- Q.21 A.M. Chakrabarty is famous for his contribution in developing \_\_\_\_\_ that degrade oils spills. (1)  
A) *Lactobacillus*    B) *Pseudomonas*  
C) *Chlorae*    D) *Streptococcus*  
**Ans : B**
- Q.22 Which of the following are produced with the help of biotechnology? (1)  
A) Alcohol    B) Yoghurt  
C) Vaccines    D) All of these  
**Ans : D**
- Q.23 Small and extra circular DNA present in the bacterial cells is known as \_\_\_\_\_. (1)  
A) Plasmids    B) Vectors  
C) SSR    D) DNA  
**Ans : A**
- Q.24 Which of the following is edible vaccine? (1)  
A) Transgenic potato    B) BT Brinjal  
C) Golden rice    D) None of these  
**Ans : A**
- Q.25 Which of the following are the steps involved in tissue culture? (1)  
A) Initiation    B) Extension  
C) Ligation    D) Glycation  
**Ans : A**
- Q.26 Which of the following is the first cloned animal? (1)  
A) Sheep    B) Goat  
C) Cow    D) All of these  
**Ans : A**
- Q.27 Who is considered as the father of white revolution in India? (1)  
A) Dr. M.S. Swaminathan    B) Dr. Varghese Kurian  
C) Dr. C.N.R Rao    D) Dr. Ramchandran  
**Ans : B**
- Q.28 Aquatic ecosystem is affected by \_\_\_\_\_. (1)  
A) oil spills    B) dumping wastes  
C) fertilizers    D) all of these  
**Ans : D**

Q.29 Vaccine is an \_\_\_\_\_. (1)

**Ans : A**

Q.30 Which of the following is an application of biotechnology? (1)

- A) Animal husbandry      B) Tissue culture
- C) Genetic engineering      D) All of these

**Ans : D**