



RAN - 1803001101030001



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M.Sc. Biotechnology (Sem. I) Examination

March - 2023

BT - 01 : Introduction to Biotechnology

Set - I

[Total Marks: 50

સૂચના : / Instructions

(૧)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

M.Sc. Biotechnology (Sem. I)

Name of the Subject :

BT - 01 : Introduction to Biotechnology Set - I

Subject Code No.: **1803001101030001**

Seat No.:

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Student's Signature

***O.M.R. Sheet ભરવા અંગેની અગત્યની સૂચનાઓ આપેલ
O.M.R. Sheetની પાછળ છાપેલ છે.***

***Important instructions to fillup O.M.R. Sheet
are given on back side of the provided O.M.R. Sheet.***

1. Which PSU of DBT was established with aim to achieve self-sufficiency in production and supply of high quality Polio vaccine?
 - a) Bharat Immunological and Biological Corporation Limited
 - b) Indian Vaccine Corporation Limited
 - c) Biotech Consortium India Limited
 - d) Bharat Biotech Limited

2. Rajiv Gandhi Centre for Biotechnology is located in which city?
 - a) Mumbai
 - b) Delhi
 - c) Punjab
 - d) Thiruvananthapuram

3. Full form of ABLE
 - a) Association of Biotechnology Led Enterprises
 - b) Association of Biotechnology Led Entrepreneur's
 - c) Association of Bioscience Led Enterprises
 - d) None

4. Currently total number of autonomous institutes under DBT are
 - a) 50
 - b) 3
 - c) 15
 - d) 72

5. Department of Biotechnology (DBT) was established under
 - a) Ministry of Agriculture
 - b) Ministry of Health and Family Welfare
 - c) Ministry of Environment and Forestry
 - d) Ministry of Science and Technology

6. When was the first National Biotechnology Development Strategy announced by the DBT?
 - a) September, 2005
 - b) September, 2007
 - c) November, 2005
 - d) November, 2007

7. _____ is described as Genome valley in India
 - a) Mumbai
 - b) Chennai
 - c) Hyderabad
 - d) Kerala

8. What is full form of CDFD?
 - a) Center for DNA Fingerprinting and Diagnosis
 - b) Center for DNA Footprinting and Diagnosis
 - c) Center for DNA Fragmentation and Diagnosis
 - d) Center for DNA fixation and Diagnosis

9. Which is NOT a Public sector undertaking of DBT?
a) BIBCOLD b) IVCOL
c) BIRAC d) NIAB
10. Which bacterium is used in the production of Insulin by Genetic Engineering?
a) *Saccharomyces* b) *Rhizobium*
c) *Escherichia* d) *Mycobacterium*
11. A key factor in distinction between Biology & Biotechnology is their
a) Ideas b) Dedication
c) Job opportunities d) Scale of Operation
12. The twentieth century was undoubtedly the age of _____ & _____
a) Chemistry & Biology b) Biology & Physics
c) Physics & Arts d) Chemistry & Physics
13. BIOTOL-European based learning software stands for _____
a) Biology by Open Learning b) Biotechnology by Open Learners
c) Biology by European Learning d) Biotechnology by Open Learning
14. Which one of the following components is NOT a part of three central cores of Biotechnology?
a) Obtaining the best biological catalyst
b) Chemical modification of catalyst
c) Creating best possible environment for the catalyst to perform
d) Separation and purification of catalyst
15. Who is the Father of Modern Biotechnology?
a) Pasteur b) Karl Ereky
c) Leeuwenhoek d) Watson & Crick
16. Issue of poverty in developing world depends upon _____
a) Vaccines b) Anti-cancer drugs
c) Agriculture d) Waste water treatment plant.
17. Probe is defined as _____
a) Protein for detecting a specific DNA molecule
b) Protein for detecting a specific RNA molecule
c) Short piece of labelled RNA or DNA complementary to the nucleic acid to be detected
d) Short piece of labelled RNA complementary to the nucleic acid to be detected

37. Whey is the by product coming from
a) Sugar industry b) Dairy industry
c) Oil refinery d) None
38. Hybridoma technique for monoclonal antibody production was developed by
a) Khorana and Nirenberg b) Kohler and Milstein
c) Korenberg and Khorana d) Beedle and Talum
39. Bioethanol is commonly produced by fermentation of
a) Mineral acids b) Burnt oil
c) Sugary crops d) None
40. Which of following pair is wrongly matched?
a) Textile-Amylase b) Detergent-Lipase
c) Alcohol-Nitrogenase d) Fruits-Pectinase
41. Large and coarse particles in waste water are removed during
a) Tertiary stage b) Quaternary stage
c) Primary stage d) Secondary stage
42. What chemical reaction is used in generation of biodiesel?
a) Polymerization b) Transesterification
c) Sublimation d) Fermentation
43. Bt cotton is produced by _____
a) Genetic engineering b) Old biotechnology
c) Microbiology d) Agriculture hybridization
44. What is the contribution of Ross Harrison?
a) First to culture plant cells
b) First to culture animal cells in laboratory
c) First to develop nutrient media
d) First to develop MS media
45. Which of the following enzyme generates Sticky ends?
a) *Sma*I b) *Hind* II
c) *Hind* III d) All
46. Which vector has maximum insert range?
a) YAC b) Cosmid
c) Plasmid d) Phagemid

SPACE FOR ROUGH WORK