



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 bacterium is used in the production of Insulin by Genetic Engineering?
  - a) *Saccharomyces*
  - b) *Rhizobium*
  - c) *Escherichia*
  - d) *Mycobacterium*
  
2. A key factor in distinction between Biology & Biotechnology is their
  - a) Ideas
  - b) Dedication
  - c) Job opportunities
  - d) Scale of Operation
  
3. The twentieth century was undoubtedly the age of \_\_\_\_\_ & \_\_\_\_\_
  - a) Chemistry & Biology
  - b) Biology & Physics
  - c) Physics & Arts
  - d) Chemistry & Physics
  
4. 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
  
5. 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
  
6. Who is the Father of Modern Biotechnology?
  - a) Pasteur
  - b) Karl Ereky
  - c) Leeuwenhoek
  - d) Watson & Crick
  
7. Issue of poverty in developing world depends upon \_\_\_\_\_
  - a) Vaccines
  - b) Anti-cancer drugs
  - c) Agriculture
  - d) Waste water treatment plant.
  
8. 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
  
9. Biotechnology by open learning is \_\_\_\_\_
  - a) Biotool
  - b) Biological Tool
  - c) BiTool
  - d) Bio Tol



20. CO<sub>2</sub> incubator is used for \_\_\_\_\_
- a) Growing plant cells                      b) Growing mammalian cells  
c) Growing bacterial cells                d) Growing yeasts
21. Holoenzyme is \_\_\_\_\_
- a) Non- protein part of enzyme            b) Protein part of enzyme  
c) Prosthetic part of enzyme                d) Complete biologically active enzyme
22. What is the function of Sparger in Bioreactor?
- a) Provides agitation                        b) Provides aeration  
c) Controls pH                                 d) Controls temperature
23. Which by-product of sugar industry is used as feedstock for production of various compounds of economic value in fermentation process?
- a) Whey    b) Bran  
c) Bagasse                                        d) Molasses
24. Which of the following statement is true for continuous fermentation?
- a) Substrates are added to system all at once and runs until product is harvested  
b) Nutrients are fed continuously into reactor and product is siphoned off during run.  
c) Small scale production  
d) None
25. Batch fermentation is also called as
- a) Continuous system                        b) Open system  
c) Intermittent system                        d) Closed system
26. Fermentation is
- a) Aerobic process                            b) Anaerobic process  
c) Aerobic or anaerobic                        d) Simple process
27. Which type of fermentation is seen in yeast?
- a) Acrylic fermentation                        b) Alcoholic fermentation  
c) Lactic acid fermentation                    d) Pyruvic acid fermentation
28. Whey is the by product coming from
- a) Sugar industry                                b) Dairy industry  
c) Oil refinery                                    d) None
29. 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







**SPACE FOR ROUGH WORK**