

**P. S. SCIENCE & H. D. PATEL ARTS COLLEGE, KADI**

**Internal Examination**

**B. Sc. Semester - I**

**[Mark : 40**

**26-9-2016]**

**Introduction to Biotechnology  
& Cell Biology (BT-101)**

**[2 Hours**

**1. Attempted all questions. 10**

- (1) Product of Molecular Biotechnology.  
(A) Bt-cotton (B) DNA-Vaccines (C) Beer (D) Antibiotics
- (2) Biotechnology industry in Gujarat.  
(A) Bio-red (B) Dr.Reddy (C) Intas life sciences (D) Bio-con
- (3) 100 X lens is generally known as  
(A) Ocular lens (B) Objective lens  
(C) Oil immersion (D) Nose piece
- (4) metaphase  
(A) Last phase of cell cycle (B) Chromosome in middle  
(C) Spindle is not arranged (D) Chromosome are not separate
- (5) \_\_\_\_\_ and \_\_\_\_\_ are types of RNA.
- (6) ocular is 10X and objective 100X oil immersion calculate magnification
- (7) \_\_\_\_\_ and \_\_\_\_\_ are fermented products.

**Match the following.**

- |                          |                    |
|--------------------------|--------------------|
| (8) Blue Biotechnology   | (a) Pharmaceutical |
| (9) Green Biotechnology  | (b) Marine         |
| (10) White Biotechnology | (c) Agriculture    |

**2. Answer any four questions. 20**

- (1) Explain biotechnology
- (2) Describe applied area of biotechnology.
- (3) Draw a diagram of microscope and explain types
- (4) Explain structure of DNA
- (5) Explain endocytosis
- (6) Describe cell membrane with diagram.

**3. Answer any one questions. 10**

- (1) Define biotechnology and applications.
- (2) Describe cell cycle. \_\_\_\_\_