

**IN THE LIGHT OF THE GRIEVANCES RECEIVED FROM THE CANDIDATES WHO APPEARED FOR THE TEST, THE FOLLOWING MEASURES WERE TAKEN DURING EVALUATION/SCRUTINY OF THE ONLINE WRITTEN TEST HELD ON 28.03.2015 FOR THE POST OF ASSISTANT PROFESSOR, CUSAT (LIFE SCIENCE/BIOTECHNOLOGY WITH SPECIALISATION IN MOLECULAR BIOLOGY)**

**A. ANSWERS CORRECTED**

**B. QUESTIONS ELIMINATED**

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**A. KEY OF THE FOLLOWING QUESTIONS MODIFIED AS FOLLOWS**

1. The second phase in meiosis (Meiosis-II) leads to

- a. Fresh DNA synthesis
- b. Separation of chromatids and centromeres
- c. Separation of sex chromosomes
- d. Separation of homologous chromosomes

The correct answer is: Separation of chromatids and centromeres

2. In flow cytometry, each peak in histogram represents

- a. Probe labeled with flurochrome
- b. Chromosome labeled with quinacrine
- c. Single or group of chromosome of same size
- d. Length of chromosomal arms

The correct answer is: Probe labeled with flurochrome

3. The bioproduct used for acute myocardial infraction which is obtained from animal cell culture is

- a. tPA
- b. Anti-fibrin 99
- c. Urokinase type plasminogen activator
- d. Somatropin

The correct answer is: tPA

4. Insulin is made up of

- a. Glucose and fructose
- b. Two polypeptide chains
- c. Fructose
- d. N-acetyl glucosamine

The correct answer is: Two polypeptide chains

5. Number of double bonds in the molecular structure of guanine will be

- a. 2
- b. 3
- c. 5
- d. 6

The correct answer is: 3

6. Which of the following is considered as a secondary metabolite?

- a. Vitamin B12
- b. Citric acid
- c. Ethanol from yeast
- d. Mycotoxin

The correct answer is: Mycotoxin

## **B. QUESTIONS ELIMINATED**

1. The specificity factor of APC in the degradation of securin
  - a. Cdc 20
  - b. Cdh 1
  - c. Cdc1
  - d. Cdc 15

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2. Mitomycin is a
  - a. Aflatoxin
  - b. Bioengineered protein
  - c. Biochip
  - d. Immobilized enzyme

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3. In the treatment of Parkinson's disease by gene therapy, the target cell considered is
  - a. Fibroblast
  - b. T-cells
  - c. Nasal epithelium
  - d. Myoblasts

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4. The flavour of garlic is stored in
  - a. Peroxisomes
  - b. Cytosol
  - c. Vacuole
  - d. Intercellular space

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5. Lysine incorporated as animal feed additive is produced industrially by
  - a. Brevibacterium spp.
  - b. Micrococcus glutamicus
  - c. Bacillus subtilis
  - d. Geobacillus suboxydans

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6. This virus has RNA dependent DNA polymerase as part of its genome
  - a. Influenza virus
  - b. Herpes virus
  - c. Cauliflower mosaic virus
  - d. Papilloma virus

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7. Shrink resistance to wool is imparted by Kylan, which is a derivative of
  - a. collagen
  - b. chitin
  - c. gelatin
  - d. phycocolloids

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8. Half-life period of  $^{32}\text{P}$  is
  - a. 32 hours
  - b. 32 days
  - c. 89 days
  - d. 89 weeks

  
CONTROLLER OF EXAMINATIONS