IN THE LIGHT OF THE GRIEVANCES RECEIVED FROM THE CANDIDATES WHO APPEARED FOR THE TEST, THE FOLLOWING QUESTIONS WERE ELIMINATED 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 GENETIC ENGINEERING)

QUESTIONS ELIMINATED

- 1. The half life of Taq polymerase enzyme at 95°C is:
- a. 1.6 hours
- b. 7 hours
- c. 3.5 hours
- d. Not estimated
- 2. Melting temperature of a PCR reaction is calculated by the formula:
- a. Tm=4(GC)+2(CG)
- b. Tm=2(GC)+2(AT)
- c. Tm=4(GC)+2(AT)
- d. Tm=4(GC)+4(AT)
- 3. Which is not a database for comparative genomics?
- a. PEDAT
- b. MBGD
- c. KEGG
- d. SAGE
- 4. CRISPR-cas9 is an example for
- a. Nuclease
- b. Endonuclease
- c. Nickase
- d. Topoisomerase
- 5. Mitomycin is a
- a. Aflotoxin
- b. Bioengineered protein
- c. Biochip
- d. Immobilized enzyme
- 6. An additional gene function is established by employing one among the following experiments
- a. Knock in
- b. Knock out
- c. Transgenic
- d. Recombined

B

- 7. An entire organism can be grown from a single cell following
- a. Cloning
- b. Genetic engineering
- c. Cell culture
- d. Transfusion
- 8. Southern blotting technique could not be applied directly to the blot transfer of mRNA separated by gel electrophoresis because
- a. RNA is more stickier than DNA with nitrocellulose filter
- b. Once attached, RNA cannot be separated out from nitrocellulose filter
- c. RNA forms in bulk and sticks on nitrocellulose filter
- d. RNA bands do not binds with nitrocellulose filter
- 9. ORF does not contain:
- a. Codon for methionine
- b. Stop codon
- c. UUU codon
- d. Any of these
- 10. Which of the following is not a soil DNA purification method?
- a. Filtration column
- b. Microwave heating
- c. Chemical flocculation
- d. Agarose gel purification
- 11. Methylated DNA has not been observed in one of the organisms below
- a. E.coli
- b. Homo sapiens
- c. Arabidopsis thaliana
- d. Drosophila

James of the same

CONTROLLER OF EXAMINATIONS