Mock Question Paper

MICROBIOLOGY(HONS.)

PAPER-C7

Full Marks:50 Time:2hrs 1. Answer any *four* of the following: 2x4 = 8a) Distinguish between introns and exons b) What is central dogma? c) What do you mean by SD- sequence? d) What is pribnow box? Give its sequence e) What do you mean by ambiguous codon? Give example. f) What is cot curve? g) What do you mean by CRP? Give an example of an inducible operon 2. Answer any three of the following: 6x3=18a) How does post transcriptional modification of m RNA occur in eukaryotes? b) Give a comparative account among A,B and Z DNA c) Describe the cloverleaf model of t-RNA. d) Differentiate between inducible and repressible operon? What is attenuation? briefly describe it. e) Describe the rolling circle model of replication. f) Write a note on termination of transcription on the basis of dependency and independency of "Rho" factor. 6. 3. Answer any two of the following: 12x2=24a) Write a comprehensive note on translational phases(Initiation, elongation and termination) of protein synthesis in bacteria. b) Write notes on: I .Initiation of transcription mentioning importance of 6 factor. II .Characteristic feature of genetic code. 6+6c) Draw the growth curve of the medium containing both glucose and lactose as carbon sources. Explain the gene regulation mechanism operated in this culture. Distinguish between inducible and repressible system. 2+5+5 d) Give a comparison between prokaryotic and eukaryotic transcription. Write a short note

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on DNA methylation.