

Shri Pundlik Maharaj Mahavidyalaya Nandura (Rly)

Dist. Buldana

Unit Test Sem VI B. Sc III

Subject :- Botany

Que. 1. Fill in the blanks

1. Which form of RNA has a Structure resembling Clover leaf.
2. The anticodon of tRNA binds with Nucleic bases of mRNA.

Que. 2. Multiple choice questions.

1. Wobble hypothesis was proposed by
 - a) Watson
 - b) Crick
 - c) Nirenberg
 - d) Watson & crick
- 2 Genetic code is not
 - a) Overlapping
 - b) With commas
 - c) Universal
 - d) Degenerate
- 3 The ability of the component cell of callus to form a whole plant is known as
 - a) Redifferentiation
 - b) Dedifferentiation
 - c) Either A & B
 - d) None of these
- 4 Protoplast are the cells devoid of
 - a) Cell membrane
 - b) Cell wall
 - c) Both a & b

d) None of these

Que. 3. Answer in one sentence

- 1) What is cDNA library ?
- 2) What is genomic DNA library?
- 3) Which of the following is a stop codon?
- 4) Why genetic code is non ambiguous?
- 5) Which DNA strands is used for transcription?

Que. 4.Explain in brief.

- 1) Write short notes on DNA replication in eukaryotes.
- 2) What are the steps of eukaryotic transcription?
- 3) Regulation of gene expression in prokaryotes Lac operon.
- 4) How is gene expression controlled in prokaryotes?
- 5) Write a short notes on Micro propagation.
- 6) Write a short notes on Recombinant DNA technology.