



BBH-BP808ET

Seat No. _____

M. P. M. (Sem. VIII) (W.E.F.-2017) Examination

July - 2021

BP808ET : Cell & Molecular Biology

Time : 3 Hours]

[Total Marks : 75

Instructions :

- (1) Figure to the right indicates marks.
- (2) Draw neat and clean diagrams as required.

1 Answer the following questions : 10×2=20

- (1) Define cell.
- (2) How central dogma of life work ?
- (3) Why cellular reproduction is required ?
- (4) Describe chemical foundation of cell.
- (5) How DNA is functioning ?
- (6) What is the difference between transcription and transduction?
- (7) Enlist cationic amino acids.
- (8) Describe B - platted sheets.
- (9) What is the role of hair pin loop in protein structure ?
- (10) Why regulation of protein structure is required ?

2 Answer any two out of the following : 2×10=20

- (1) Write a detailed note on eukaryotic cell division with its regulations.
- (2) Write a note on receptors and its role in cell signalling.
- (3) Write a detailed note on transgenic and genomic analysis.

3 Answer any **seven** out of the following :

7×5=35

- (1) Write a detailed note on RNA.
 - (2) Describe in detail about DNA and its types.
 - (3) Describe different steps of translation.
 - (4) Write a detailed note on cell membrane.
 - (5) Describe in detail misregulation of signalling pathway.
 - (6) Write a short note on protein kinases.
 - (7) Describe in detail about genetics.
 - (8) Describe in detail about positive control of protein synthesis.
 - (9) Write a short note on cell cycle checkpoints and its importance.
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