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**NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA**

(An Autonomous Institute)

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

**M.Tech**

**FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)**

**(Subjective Type)**

**Subject Code: AMTBT0201**

**Subject: Bioinformatics**

**Max. Mks. : 30**

**Time : 50 Minutes**

**General Instructions:**

*All questions are compulsory.*

*Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.*

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
1	Write any two properties of EMBL.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
2	What are the two characteristics of PIR?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
3	Write any two characteristics of OMIM?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
4	What to understand by CLUSTAL-V?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
5	What is CLSUTAL-&Omega;?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
6	What the latest version of CLUSTAL program?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
7	Draw a labelled diagram of a unrooted tree.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
8	What does the nodes and branches in a phylogenetic tree represent?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Type	Difficulty
9	Name two signaling pathway databases?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
10	What are rotamers?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
11	What is ubiquitination?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
12	What do you understand by off-target effects of a drug?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
13	What are synonymous SNPs?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
14	What are non-synonymous SNPs?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
15	HGMD and PharmGKB are used for?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant