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Monday, October 02, 2017   6:32 PM

GUJARAT NATIONAL LAW UNIVERSITY
GANDHINAGAR
Course: **Advanced Sciences**
Semester-III (Batch: 2016-21)

Mid Semester Test: August-2017

Date: 24th August, 2017
Duration: 1 ½ hours   Max. Marks: 20

Instructions:
- Read the questions properly and write the answers in the given answer book.
- The respective marks for each question are indicated in-line.
- Do not write any thing on the question paper.
- Indicate correct question numbers in front of the answers.
- No questions or clarifications can be sought during the exam period, answer as it is, giving reason, if any.

	Part-A	Marks
Q.1	What is OMIM? What numbering system is used in the OMIM database?	(03)
Q.2	Briefly discuss the tertiary structure of protein.	(03)
Q.3	Differentiate between accession code and identifier.	(03)
Q.4	What is meant by sequence alignment? What are its application? Add a note on types of sequence alignments.	(03)

	Part-B	
Q.5	An element has atomic number 68 and the mass number is 137. Determine the number of protons, electrons and neutrons forming the part of the element.	(02)
Q.6	Write four difference between the nuclear fusion and nuclear fission reaction.	(02)
Q.7	Explain the working of a nuclear reactor with the help of a neat diagram also describing the components and its role in the working of a reactor.	(04)

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