

ELIZADE UNIVERSITY, ILARA-MOKIN, NIGERIA

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2017/2018 ACADEMIC SESSION

COUR	SE CO	DE.	BTH.	405
COUR	5E C.U	1) 1/:	він	4U.S

COURSE TITLE: MEDICAL BIOTECHNOLOGY

DURATION:

2 HOURS



HOD's SIGNATURE

NAME:
MAT. No:
INSTRUCTIONS:

Answer any 3 questions

- 1 a) What is protein therapeutics?
 - b) What are the advantages of protein therapeutics over the small molecule drugs?
 - c) What are the different types and examples of protein therapeutics?
- 2. a) Describe the following using specific examples.
- (i) Induced mutation (ii) Spontaneous mutation
- b) Differentiate between gain of function mutation and loss of function mutation using specific examples.
- c) Describe the following DNA repair mechanisms.
- (i) Mismatch Repair (ii) Excision Repair
- 3ai) What is carcinogenesis? ii) Describe the features of malignant cells.
- b) Mention and briefly describe the four classes of normal regulatory genes involve in carcinogenesis.
- 4. a. What is Tissue Engineering?
 - b. Briefly describe the process of tissue engineering.
 - c. Briefly justify the need for the technology described above (4b).
- 5a. Describe the process of *in-vitro* fertilization.
- b. What are the challenges of *in-vitro* fertilization.