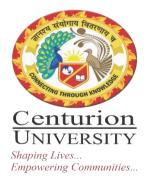
Model Questions for Introduction to Biotechnology and Bioinformatics FSAQ 3210 (1+1)

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1.	Multi	nle	Choice	Questions

2. Matching Table:

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1.	Fill in the blanks:	[5x0.5=2.5]
	a)is an example of primary database	
	b) Hybridoma is a fusion of cells	
	c) AquAdvantage Salmon is	•••••
	d) Competitive ELISA measures amount ofin	a sample
	e) DNA structure as a double helix was first reported by	_

Double ringed nitrogen bases	Salvage pathway
Thymidine kinase	Exons
Single ringed nitrogen bases	selection of hybridomas
Coding regions in DNA	Pyrimidines
HAT medium	Purines

3. Choose the correct answer or True/ False statement:

[5x1=5]

[5x0.5=2.5]

- a) GloFish is a genetically modified food fish []
- b) Green biotechnology applies to agriculture []
- c) Western blotting is used to detect RNA []
- d) DNA vaccines can lead to insertion mutagenesis []
- e) First commercial licensed DNA vaccine was against IPNV disease []
- **4.** Differentiation or define or abbreviations or statement:

[5x1=5]

- a) Define genetic code
- b) Expand the acronyms ELISA, rDNA, HGPRT
- c) Enlist common primary and secondary biological databases
- d) Difference between prokaryotic and eukaryotic cell
- e) Expand the acronyms NCBI, BLAST, DDBJ, PDB

(Answer any Three)

[3x5=15]

- **5.** Explain briefly the principle of ELISA and discuss different types of ELISA [5]
- **6.** Write a short note on Hybridoma technology and differentiate between monoclonal and polyclonal antibodies
- 7. Discuss about the DNA vaccines and write down the advantages of DNA vaccines [5]
- **8.** Write a note on blotting. Enlist its types and explain any one type by a flowchart [5]

- **9.** Define bioremediation and give an account on its types [5]
- **10.** Write short notes on any **One**: [5]
 - a) Polymerase chain reaction
 - b) DNA structure