



# International Islamic University Chittagong

Department of Arabic language and literature

BA (Hons.) in ALL	Final Examination	Semester : Spring-2023
Course Code: BSC-2301		Course Title: Basic Science
Time: 2 hours 30 minutes		Full Marks: 50

(Answer any **five** questions from the followings. Figures in the right margin indicate marks)

1.	a)	What do you mean by food, health and protein?	3
	b)	What is light? State the natural and artificial sources of light.	3
	c)	Mention the sources of vitamins.	2
	d)	Write down the types of fats with examples.	2
2.	a)	Define hazards. Classify hazards with examples.	1+4
	b)	What are the names of different types of water?	2
	c)	How can you control soil pollution? Explain it.	3
3.	a)	Briefly explain the thermal conductors and insulators with suitable examples.	3
	b)	Write down the uses of heat.	2
	c)	Define temperature. Briefly discuss the different types of thermometer for measuring temperature of various things like air, human bodies, food and many other things.	3
	d)	Mention the examples of thermal energy.	2
4.	a)	What is plant? Name the five groups of plant growth regulating compounds.	2
	b)	Explain photosynthesis and mention its products.	2+2
	c)	What do you mean by chloroplast and cytoplasm?	2
	d)	List out the factors that affect rate of transpiration.	2
5.	a)	Define biodiversity, ecosystem and taxonomy.	3
	b)	Sketch the diagram of a food chain and flow of energy and nutrients.	3
	c)	Describe the ecological and economic importance of conservation of biodiversity.	4
6.	a)	Write down the five good reasons to OHS for ISO 45001.	2
	b)	How do you create a PDCA cycle based on ISO 45001?	4
	c)	Mention the top 10 hazards in workplace.	2
	d)	Differentiate between ISO 14001 and ISO 45001.	2
7.	a)	Write short note on- i)P <sup>H</sup> scale ii)Kinetic energy iii)Transpiration iv)Essential metals.	2×4=8
	b)	Mention the biotic and abiotic components of an ecosystem.	2