BOWEN UNIVERSITY (Of the Nigerian Baptist Convention) IWO College of Environmental Science (COEVS) FIRST SEMESTER EXAMINATION, 2023/2024

FIRST SEMESTER EXAMINATION, 2023/2024 DEPARTMENT OF ARCHITECTURE ARC 303: BUILDING SERVICES (2 UNITS)

INSTRUCTION: This paper contains six questions. Answer Questions 1 and any other three (3) questions in all

TIME ALLOWED: 2 hours

USE WELL LABELED DIAGRAM(S) WHERE APPLICABLE

WARNING: Please note that you are not allowed to bring mobile phone(s) into the examination hall. Non-compliance will amount to examination misconduct and attract stiff penalty.

1.	(b) List and explain the various treatment of water. (1	0 marks) 0 marks) 5 marks)
2.	List and explain the 3 types of water distribution.	(15 marks)
3.	Write short notes on the following, provide sketches where necessary	
	 i. Soakaway ii. Drains iii. Sewers iv. Inspection chambers v. Manholes 	(15 marks)
4.	(a)) (i) What are sanitary appliances?(ii) List the two types of sanitary appliances with examples.(iii) Describe the two types of a wash down water closet.	(7 marks) (4 marks) (4 marks)
5.	(a) List 5 types of water taps.(b) Explain and state 5 advantages and disadvantages of water taps listed in question 5	(5 marks) a (10 marks)
6.	 (a) Explain the process of heat transfer. (b) Write short notes on the following Conduction Convection Radiation 	(6 marks)