

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I **SESSION 2014/2015**

COURSE NAME

: ARCHITECTURE AND BUILDING

TECHNOLOGY

COURSE CODE

: BNB 30103

PROGRAMME

: BNB

EXAMINATION DATE : DECEMBER 2014 / JANUARY 2015

DURATION

: 3 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTIONS PAPER CONSISTS OF THREE (3) PAGES

BNB30103

Q1	(a)	Building services are divided into three main categories: mechanical electrical services and building operations. For each category, state (3) types of building services system.	THREE
			(9 marks)
	(b) Selec expla	Select ONE (1) appropriate example of the above building services explain why the system is essential to a building.	systems;
		CAPIGIT WILL STORMS	(7 marks)
	(c)	Propose TWO (2) types of building services systems that you necessary for an examination hall and state why you choose those sys	think are stems. (4 marks)
Q2	(a)	Differentiate between FOUR (4) types of plan drawing in working drawing (10 m	
	(b)	With the aid of sketches, describe the method to draw the vertical section obuilding. (6 ma	tion of a
			(6 marks)
	(c)	Building setback refers to the distance between the boundaries lines of the building, reserves or other buildings where no construction is allowed. Justify why the building setback is needed. (4 marks)	
Q3	(a) Historically, the role of building services technologies would install all the services within the space allocated but a new focus development in buildings has changing the job responsibility above statement, discuss the roles and responsibilities of buildings has changing the job responsibilities.		sustainable sed on the
		technologies today. (8 mar)	
	(b)	Nowadays, the design of the building services systems is supported by	by a range
		of tools. Outline FIVE (5) typical building services design tools. (5 m	
	(c)	With the aid of diagram, create the process of brief and design developed for building services.	velopment
			(7 marks)

BNB30103

- Classify the THREE (3) acts adopted for the purpose of planning and **Q4** (a) preparing a development? (3 marks)
 - Define the meaning of development and show in detail the THREE (3) (b) development needs. (7 marks)
 - Summarize the stage, purpose of work and decisions to be reached, task to be (c) done and people directly involve in the process of development (10 marks)
- With appropriate examples, compare the following concepts: Q5 (a)
 - Building alteration. (i)
 - Building preservation. (ii)
 - Adaptive reuse. (iii)

2

(15 marks)

Specifically, under the revised Acts, the Professional Architect or Professional (b) Engineer or Registered Building Draughtsman of a project who submits the building plans (PSP) will have to issue the Certificate of Completion and Compliance (CCC) before owners can take possession of their properties and live in them. Briefly, indicate FIVE (5) responsibilities of Principle Submitting Person (PSP) under CCC.

(5 marks)

- END OF QUESTION -