

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER 1 SESSION 2016/2017

COURSE NAME

: BUILDING AND STRUCTURE

DEMOLITION

COURSE CODE

: BNC 40803

PROGRAMME

: 4 BNC

DATE

: DECEMBER 2016/JANUARY 2017

DURATION

: 2 HOURS 30 MINUTES

INSTRUCTION

: ANSWER ALL QUESTIONS



THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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Q1	(a)	Analyze the risk management analysis (identify, asses and control the risk) in demolition work of building to get special precautions for safe work. (6 marks)
	(b) There is a need of demolition work during construction of extension/en of building. Name THREE (3) specific examples.	

(c) With the aid of sketch, Set-up the temporary structures to protect parts of structures during demolition work of basement.

(5 marks)

(6 marks)

(d) Discuss the difference between Fire hazards and Fire preventions during demolition work.

(8 marks)

- Q2 In a demolition work,
 - (a) Evaluate the **FOUR (4)** factors usually considered in selection demolition method. (2 marks)
 - (b) Evaluate the method of demolition between diamond saw cut and human operatives method to demolish rc beam.

(5 marks)

(c) Fill in the blank by a short and concise statement of evaluation to demolition method shown in the table.

	Machinery	Superiority	Weakness
1.	Breaker machine		
2.	Saw cutting		
3.	Wrecking ball		

(9 marks)

(d) Evaluate and select one of the most effective of using the above **THREE** (3) machinery to demolish 9 stories building in congested area.

(6 marks)

(e) With the aid of sketch, describe the main process of demolition by implosion.

(3 marks)

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Q3	(a)	Evaluate the potential of recycle building material to produce concrete panel. (5 marks)				
	(b)	Point out and what to do with demolition waste after building demolished. (6 marks)				
	(c)	Before demolition work starts, explain the FOUR (4) reasons to take out th hazardous material (6 marks				
	(d)	Fill in the blank in the table Hazardous material 1. Chemically treated wood 2. Asbestos	Hazard type to human	What to do		
		3. Mercury content lamp4. Toxic material				
Q4	(a)	Explain FOUR (4) positive	ve impacts of good manage	(8 marks) ement of Construction and		

(b) With the aid of sketch, describe the sequence to demolish sheet pile as temporary structure.

(6 marks)

(6 marks)

(c) Evaluate the use of breaker machine to demolish oil tank which is made from alumunium alloy.

(6 marks)

(d) Set up the step to demolish rc basement of high rise building.

Demolition waste material.

(7 marks)

- END OF QUESTIONS -

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Pan, yorah Nakub Teknolog, Populata uso Universib auc Nossen Ond Goloyela