

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2017/2018

COURSE NAME

: CONSTRUCTION EQUIPMENT

COURSE CODE

BPD 21602

PROGRAMME CODE :

BPC

EXAMINATION DATE :

JUNE / JULY 2018

DURATION

2 HOURS

INSTRUCTION

: ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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Q1		Discuss the impact on the proper use of the appropriate equipment contributes to the following.	
	(i)	Economy	
	(ii)	Quality	
	(iii)	Safety	
	(iv)	Speedy (20 marks)	
Q2	(a)	Differentiate types of mixers used in concreting work of small and large projects. (10 marks)	
	(b)	A conveyor system is a common piece of mechanical handling equipment that moves materials from one location to another.	
		Differentiate the following types of conveyors, with the aid of sketches.	
		(i) Wheel Conveyor	
		(ii) Belt Conveyor	
		(iii) Truck Conveyor (15 marks)	
	(c)	Explain TWO (2) functions of Screw Conveyor and Pneumatic Conveyor. (5 marks)	



Q3 In 2013, a contractor company bought an excavator with a price of RM300,000. As (a) in 2018, the company used the excavator efficiently and maintained it well. Within the period, there were several costs involved to maintain the excavator, as stated in Table Q3.

Table O3: List of cost related for construction equipment

Item	Cost (RM)	
Annual insurance	3,500	
Annual road tax	350	
Monthly parking fee	400	
Monthly fuel	1,500	
Cost of tyre (change every year)	2,000	
Monthly maintenance service	400	

Calculate the company's profit, assuming the depreciation rate of 7% per (i) year, if the company decide to sell the excavator in 2018,

(5 marks)

- Calculate the total cost for the excavator to operate efficiently until 2018. (ii) (10 marks)
- Analyse THREE (3) suitable cranes option to be selected, if the company decided to (b) invest and buy cranes for their next project.

(15 marks)

- Scraper is a large piece of equipment which is used in mining, construction, agriculture and 04 other earthmoving activities.
 - Explain the function of **THREE** (3) basic operating parts of a scraper. (a)

(6 marks)

(b) Analyse FOUR (4) steps of operation of the equipment.

(14 marks)

- END OF QUESTIONS -

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