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Universiti Tun Hussein Onn Malaysia

**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER II  
SESSION 2018/2019**

COURSE NAME : SPECIAL PROPERTY VALUATION  
COURSE CODE : BPE 23803  
PROGRAMME CODE : BPD  
EXAMINATION DATE : JUNE / JULY 2019  
DURATION : 3 HOURS  
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF FIVE (5) PAGES

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- Q1** Valuation is required for the air rights over the GW Bridge Express Way. The proposed development is a subsidized housing project, comprising 4 blocks of 32-storey apartments with 960 units and 5,040 rooms with 204 parking spaces. Details and procedures on the proposed development are as in **Table Q1** below:

**Table Q1: Details and procedures of the proposed development**

No.	Descriptions	Estimations
1	Revenue from 5,040 rooms	RM348 per room/annum
2	Revenue from parking space	RM360 per space/annum
3	Allowance for vacancies and collections loss; say	3%
4	Estimated expenses from Tax of RM8,000,000; say	4.25%
5	Estimated expenses from operation; say	RM412,000
6	Estimated expenses from replacements; say	RM35,000
7	Building cost (without abnormal cost); say	RM17,825,000
8	Abnormal costs; say	RM1,500,000
9	Savings; say	RM750,000
10	Interest and Carrying	RM175,000
11	Overall rate of return. estimation; say	5%

Relevant assumptions may be made to support your valuation and all calculations must be explicitly shown.

- (a) Calculate the estimation of Air Rights Value for the proposed development. (15 marks)
- (b) Explain **FIVE (5)** factors affecting the Value of Air Rights. (10 marks)
- Q2** Valuation is required for the amount of payment to be made to the owner of 2 hectares of land, which has planning permission for the erection of 40 detached houses. A sewer, length 300 metres, runs along the edge of the plot and a 10 m wide easement is sought by the local authority. It is possible to build all 40 houses on the site, but 5 plots will be adversely affected, their value being diminished by 10%.

A comparable similar type of residential building land per hectare within the surrounding area is ranging from RM4.5 mil per ha in prime area to RM400,000 per ha in the rural area. It is also notable that a typical value for the urban area not far from the subject property of RM800,000 per ha or RM40,000 per plot.

Based on the available data provided, you are required to:

- (a) Calculate the “Diminution of Value” of the subject property where a sewer pipe installation is laid under subject land, using “Before and After” valuation

approach. Suitable assumption may be made in the absence of relevant information and you are required to state all assumptions clearly in the footnotes.

(10 marks)

- (b) Calculate the amount of payment to be made to the owner of the subject land based on 50% is allowed for capital value of the “easement area” of the subject land. Suitable assumption may be made in the absence of relevant information and you are required to state all assumptions clearly in the footnotes.

(10 marks)

- (c) List **FIVE (5)** sectors that require easements or wayleaves.

(5 marks)

**Q3** You have been requested by ABC Bank to value the factories buildings for financing purposes. Your investigation reveals the following:

The subject property is currently used as a light engineering works and contains the following accommodation buildings and each of the construction buildings’ costs, site works, plant and machinery, and the site area are as listed in **Table Q3** below.

**Table Q3: Detail components of the subject property**

Ref	Description	Area sq.m	Cost (RM/sq.m)	Allowance
Buildings:				
1	Office block	650	750	10%
2	Factory	5,000	325	5%
3	Sub-station	15	1,250	12.5%
4	Workshop	500	500	0%
5	Boiler House	1,500	1,750	0%
Site works:				
1	Roads	50,000	50	5%
2	Fencing	2,500	65	0%
3	Yard	1,700	45	0%
Plant and machinery:				
1	Generators X2 3000 KVA	-	50	75%
2	Steelworks 25 tons	-	1,500	0%
Land /Site:				
1	Developed land	15	500,000	5%
2	Undeveloped land	2.5	250,000	0%

Based on the available data provided, you are required to:

- (a) Calculate the market value of the subject property for financing purpose. Suitable assumption may be made in the absence of relevant information and you are required to state all assumptions clearly in the footnotes

(19 marks)



- (b) Outline any **THREE (3)** factors affecting valuation for factories, workshops and warehouse properties

(6 marks)

**Q4** Lot No 567 Mukim of Ampang, District of Hulu Langat, State of Selangor is located within the Perang Forest Reserve. It is an on-going quarry and is located fronting Jalan Kuari and is about 25 kilometers from the City of Kuala Lumpur.

Particulars of the subject property are as follows:

Land area : 100 acres  
 Tenure : Leasehold for 30 years expiring on 31/12/2040  
 Market Value of plant and machinery : RM12,000,000  
 Granite reserve : 188,000,000 tonnes as at December 2018

Production of aggregates in tonnes for the past five years is as in **Table Q4(a)**.

**Table Q4(a): Production of aggregates in tonnes**

Types	2014	2015	2016	2017	2018
Aggregate 3/8"	28,000	44,000	50,000	56,000	29,000
Aggregate 3/4"	630,000	657,000	372,000	468,000	660,000
Aggregate 1"	23,000	33,000	43,000	50,000	23,000
Aggregate 2"	67,000	68,000	30,000	58,000	67,000
Aggregate 6" x 9"	45,000	47,000	39,000	46,000	45,000
Crusher run	199,000	238,000	156,000	226,000	199,000
Quarry dust	213,000	252,000	149,000	222,000	213,000

The average prices of crushed stones over the last five years are as in **Table Q4(b)**.

**Table Q4(b): The average prices of crushed stones**

	2014	2015	2016	2017	2018
Average price (RM/tonne)	15.04	13.56	14.52	12.38	13.80

The average production costs per tonne is as in **Table Q4(c)**.

**Table Q4(c): The average production costs**

Types	RM/tonne
Blasting	0.82
Transportation	1.30
Royalty	1.15
Crushing	3.40
Administration	0.45

Components of the buildings on site are as in **Table Q4(d)**.

**Table Q4(d): Components of the buildings on site**

<b>Buildings</b>	<b>Construction</b>	<b>Floor area (sf)</b>
Office	2-storey of permanent construction of fair condition	8,200
Workshop	Open sided of steel portal frame of fair condition	12,000
Explosive store	1-storey of permanent construction of fair condition	560
Canteen	1-storey of permanent construction of fair condition	1,200
Guardhouse	1-storey of semi-permanent construction of fair condition	600

Comparable vacant land for alternative use in the area is RM60,000 per hectare. It is assumed that the operating permit is renewable until the rock deposits are exhausted.

Calculate the market value of the subject property for loan security purpose by using an appropriate method of valuation.

(25 marks)

- END OF QUESTIONS -