

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION (ONLINE) SEMESTER II SESSION 2019/2020

COURSE NAME

BUILDING LAWS AND LEGISLATION

COURSE CODE

BFR 32403

PROGRAMME CODE :

BFR

EXAMINATION DATE :

JULY 2020

DURATION

: 6 HOURS

INSTRUCTION

: ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF SEVEN (7) PAGES



You have been appointed as the Architect by CDE Sdn. Bhd. – a consortium of developers and contractors to develop a piece of government's property located in the urban area. It is administered by the local municipality with the size of three hectares. The costing of each development components are as follows:

Development Components	Estimated Cost of Construction
1 Block of hotel	RM 60 million
1 Block of shopping complex	RM 50 million
Infrastructure	RM 4 million

- (a) Define the following terms:
 - (i) An Architect
 - (ii) A Graduate Architect
 - (iii) An Inspector of Work

(6 marks)

(b) Prepare the estimation of Architect's fee for the project according to the Scale of Minimum Fees. Refer to Figure Q1 (a), (b), (c), (d) and (e).

(7 marks)

(c) Compose a letter of acceptance of your appointment as the Architect for the project and include the mode of payment. You are to be involved in the schematic design and documentation phase that will enable the consortium to estimate the price of the project with some degree of accuracy and also obtain the necessary development approval.

(12 marks)

- Q2 (a) Define the following terms in accordance to Town and Country Planning Act:
 - (i) Building
 - (ii) Plot Ratio
 - (iii) Local Authority

(6 marks)

(b) Street, Building and Drainage Act is an act to amend and consolidate the laws relating to street, drainage and building in local areas in Peninsular Malaysia. Discuss the effects if the government decides to abolish the act.

(7 marks)

(c) As the Principal Submitting Person (PSP), you are responsible to submit for the planning approval of a MRT rail project situated in Klang Valley. The project site area is under the authorisation of two different local authorities. List the steps to be taken, and justify your decision.

(12 marks)



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Q3 (a) List the Matrix of Responsibility for Certificate of Completion and Compliance (CCC).

(5 marks)

(b) Illustrate the process of Certificate of Completion and Compliance (CCC) using flow chart. Explain every process.

(10 marks)

(c) Recently, there are cases of building failures reported involving high rise residential developments under construction. In accordance to UBBL, justify the act and needs to be carried out by the Architect upon receiving report on the event of building failures.

(10 marks)

Q4 (a) Explain the purpose of a contract and the contract principle (elements) as per Contract Act 1950.

(5 marks)

(b) Determine the difference between PWD contract and PAM contract.

(10 marks)

(c) You are the Architect of a Medical Centre project in Petaling Jaya. The contractor has highlighted discrepancies in the construction drawings issued by your office. Based on your understanding of PAM contract, describe what you need to do.

(10 marks)

- END OF QUESTIONS -



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SCHEDULE

CLASSIFICATION OF BUILDING TYPES UNDER CATEGORIES OF COMPLEXITY

CATEGORY 1:

Building types of exceptional character and complexity

Airport terminal buildings

Abattoirs

Conservation works

Chancery buildings

Embassy buildings

Ferry terminal buildings

Hospitals (service, teaching, central-support units or departments to hospitals)

Individually - designed houses

Legislative buildings

Memorials

Monuments

Museums

Mausoleums

Observatories

Palaces

Preservation works

Renovation works

CATEGORY 2:

Building types of average complexity requiring a moderate degree of design and detailing

Art gallenes

Assembly halls

Audio-visual / telecommunication buildings

Auditoria

Aquaria

Banks

Bowling centres

Bakeries

Club houses

College buildings

Community centres

Concert halls and theatres

Convention halls and facilities

Court houses

FIGURE Q1 (a)



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Crematoria

Cafeteria and canteens

Cinema halls

Civic centres

Departmental stores

Exhibition / exposition buildings

Flats (blocks of) / apartment buildings

Fire stations

Gymnasia

Housing Estates

Hotels

Industrial buildings with manufacturing and packaging facilities

Kindergarten

Libraries

Markets

Medical and health clinics

Mixed residential / commercial complexes

Motels

Marinas

Nursing homes

Office buildings

Prefabricated structures

Police stations

Prisons

Parking structures (multi-storeyed)

Petrol filling and service stations

Post offices

Power stations

Restaurants

Recreational buildings and facilities

Road transportation terminal buildings

Religious buildings

Research buildings

Skating rinks (covered, ice/roller skating)

Sports buildings

Stadia

Supermarkets

School buildings (other than government and government-aided primary and secondary schools where standard plans

are used)

Shop houses

Shopping centres / complexes

Telephone exchange buildings

University buildings

Veterinary clinics

CATEGORY 3:

Building types of the simplest utilitarian character

Carports (single-storeyed)

Farm buildings

Simple industrial type buildings

Storage or warehouse buildings

School buildings (government and government-aided primary and secondary schools where standard plans are used)

FIGURE Q1 (b)

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	Total cost of works	Minimum percentage fee
	RM500,000 and below	[Cost] x 10.00%
	RM 500,001 to RM 1,000,000	[(Cost - RM 500,000) x 9.25%] +RM50,000
	RM 1,000,001 to RM 2,000,000	((Cost - RM 1,000,000) x 8.50%) +RM96,250
	RM 2,000,001 to RM 4,000,000	[(Cost - RM 2,000,000) x 7.75%] + RM 181,250
······································	RM 4,000,001 to RM 8,000,000	[(Cost - RM 4,000,000) x 7.00%] + RM 336,250
	RM 8,000,001 to RM 16,000,000	[(Cost - RM 8,000,000) x 6.25%] + RM 616,250
	RM 16,000,001 to RM 32,000,000	[(Cost - RM 16,000,000) x 5.50%] + RM 1,116,250
	RM 32,000,001 to RM 64,000,000	[(Cos1 - RM 32,000,000) x 5.00%] + RM 1,996,250
	RM 64,000,001 to RM 128,000,000	[(Cost - RM 64,000,000) x 4,50%] + RM 3,596,250
	RM 128,000,001 to RM 256,000,000	[(Cost - RM 128,000,000) x 4.25%] + RM 6,476,250
	RM 256,000,001 to RM 512,000,000	[(Cost - RM 255,000,000) x 4,00%] + RM 11,916,250
	RM 512,000.001 and above	(Cost - RM 512,000,000) x 3.75%) + RM 22.156,250

FIGURE Q1 (c) Schedule of Minimum Fees for Category 1

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Total cost of works	Minimum percentage fee
RM 500,000 and below	[Cost] x 7.50%
RM 500,001	[(Cost - RM 500,000) x 7.0%]
to RM 1,000,000	+ RM 37,500
RM 1,000,001	[(Cost - RM 1,000,000) x 6.50%]
to RM 2,000,000	+RM 72,500
RM 2,000,001	[(Cost - RM 2,000,000) x 6.00%]
to RM 4,000,000	+RM 137,500
RM 4,000,001	[(Cost - RM 4,000,000) x 5.50%]
to RM 8,000,000	+RM 257,500
RM 8,000,001 to RM 16,000,000	[(Cost - RM 8,000,000) x 5.00%]
RM 16,000,001	[(Cost - RM 16,000,000) x 4.75%]
to RM 32,000,000	+ RM 877,500
RM 32,000,001	[(Cost - RM 32,000,000) x 4.50%]
to RM 48,000,000	+ RM 1,637,500
RM 48,000,001	[(Cost - RM 48,000,000) x 4.25%]
to RM 64,000,000	+ RM 2,357,500
RM 64,000,001	[(Cost - RM 64.000,000) x 4.00%]
to RM 80,000,000	+ RM 3,037,500
RM 80,000,001	(Cost - RM 80,000,000) x 3.75% }
to RM 96,000,000	+ RM 3,677,500
RM 96,000,001	[(Cost - RM 96,000,000) x 3.50%]
to RM 112,000,000	+ RM 4.277,500
RM 112,000,001	[(Cost - RM 112,000,000) x 3 25%]
and above	+ RM 4,837,500

FIGURE Q1 (d) Schedule of Minimum Fees for Category 2

Total cost of works	Minimum percentage fee
RM 1,000,000 and below	[Cost] x 5.00%
RM 1,000,001 to RM 2,000,000	[(Cost - RM 1,000,000) x 4,75%] +RM 50,000
RM 2,000,001 to RM 4,000,000	[(Cost - RM 2,000,000) x 4,50%] +RM 97,500
RM 4,000,001 to RM 8,000,000	[(Cost - RM 4,000,000) x 4,25%] +RM 187,500
RM 8,000,001 to RM 16,000,000	[(Cost - RM 8.000.000) x 4.00%] +RM 357,500
RM 16,000,001 to RM 32,000,000	[(Cost - RM 16,000,000) x 3.75%] + RM 677,500
RM 32,000.001 to RM 64,000,000	[(Cost - RM 32,000,000) x 3.50%] + RM 1,277,500
RM 64,000,001 and above	[(Cost - RM 64,000,000) x 3.25%] + RM 2,397,500

FIGURE Q1 (e) Schedule of Minimum Fees for Category 3

