



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2016/2017**

COURSE NAME : CONSTRUCTION CONTRACT
AND PROCUREMENT
COURSE CODE : BNP21203
PROGRAMME CODE : BNA/BNB/BNC
EXAMINATION DATE : JUNE 2017
DURATION : 3 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF SIX (6) PAGES

- Q1 (a) State **THREE (3)** objective of Housing and Development Act 1966 and Uniform Building By Law. (6 marks)
- (b) Professor Khazanah who specializes in the field of construction intends to build a bungalow with an estimated cost of RM 6 billion. Discuss the appropriate type of contract for this project. (10 marks)
- (c) Contract means a legally binding agreement made between two or more persons, by which rights are acquired by one or more to acts on the part of the other or others. Briefly discuss another **TWO (2)** meanings of contract. (5 marks)
- (d) An offer is an intimation of willingness by the offeror to enter into a legally binding contract. Differentiate between unilateral offers and bilateral offers. (4 marks)
- Q2 (a) AJ Energy Service & Trading was selected in an open tender for the construction of a Second Bridge Malaysian - Singapore worth RM 70 million. Explain **FIVE (5)** tender evaluation criteria which enable the company to successfully overcome the other tenderers. (10 marks)
- (b) Give comparison to the followings:-
(i) Letter of intent and the letter of acceptance
(ii) Tender Document and Document Contract
(iii) Provisional Sum and Prime Cost Sum.
(iv) Nominated Sub-Contractor and Nominated Supplier.
(v) Contractor All Risk's and Performance Bond. (10 marks)
- (c) ABC Energy Service & Trading has started constructs Second Bridge Malaysian - Singapore at 10/07/2017 and the contracts with the clients Gerbang Perdana Sdn Bhd. The time period of the contract is 52 weeks. However Contractor ABC Energy Service & Trading failed to complete the project within the specified period for certain reasons. ABC has appealed to apply for an extension of time from Client. As an employee for ABC, give **FIVE (5)** reasons that may be used in the extension of time (5 marks)

- Q3** (a) Briefly discuss **FIVE (5)** criteria to be taken into account in estimating a project. (10 marks)
- (b) State **FIVE (5)** purposes of Bill Quantity. (5 marks)
- (c) A bungalow with a volume of $9,000 \text{ m}^3$ was constructed in year 2000. The cost of materials, labor, plant and equipment used is approximately RM 150,000.00. Based on the information, you are required to estimate the cost of a flat-roofed bungalows, as in **FIGURE 3**, which will be built on a land lot in Pt. Raja by using volume method. At this years budgeted price increases on average by 8% compared to the year 2000 and you plan to get a gain of 15% for this project. (10 marks)
- Q4** Based on **FIGURE Q4 (a, b)**, calculate the quantity for the element below by using dimension paper:
- a) Excavation for top soil. (5 marks)
- b) Concrete for pad footing (4 marks)
- c) Formwork for stump. (6 marks)
- d) Reinforcement bar for stump (5 marks)
- e) Links for ground beam (GB3) (5 marks)

- END OF QUESTION -

FINAL EXAMINATION

SEMESTER/SESSION : SEM II 2016/2017

PROGRAMME CODE : BNA/BNB/BNC

COURSE NAME : CONSTR. CONTRACT AND PROCUREMENT COURSE CODE : BNP 21203

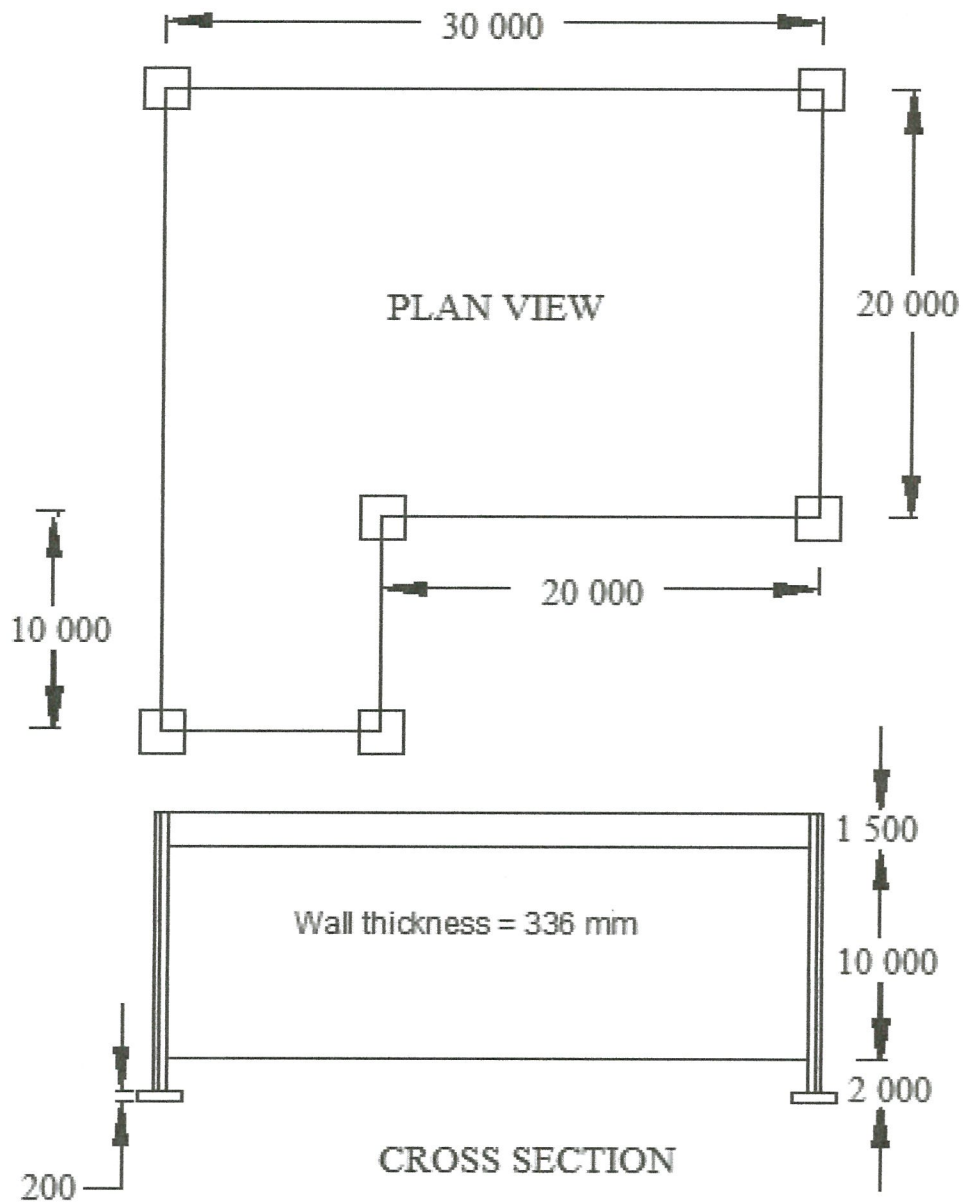


FIGURE Q3

FINAL EXAMINATION

SEMESTER/SESSION : SEM II 2016/2017

PROGRAMME CODE : BNA/BNB/BNC

COURSE NAME : CONSTR. CONTRACT AND PROCUREMENT COURSE CODE : BNP 21203

PAD FOOTING MARK	PAD FOOTING DIMENSIONS			REINFORCEMENT		
	B, mm	L, mm	H, mm	XDirBar	YDirBar	TIES
F1	1300	1500	200	T12-150	T12-150	-

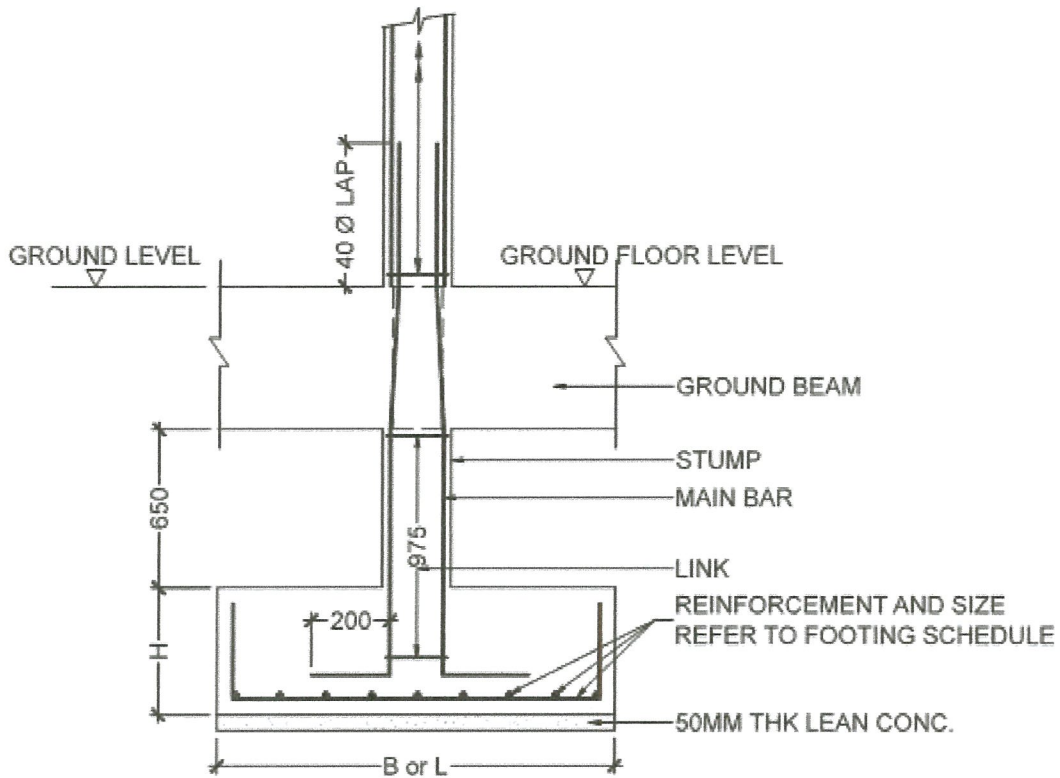


FIGURE Q4 (a) CROSS SECTION FOR PAD FOOTING

Notes for Q5

- Top soil – 200 mm
- Concrete cover for pad footing, column stump and ground beam - 40 mm thick.
- Lean concrete – grade 7
- Concrete for pad footing, column stump and ground beam - Grade 30

FINAL EXAMINATION

SEMESTER/SESSION : SEM II 2016/2017

PROGRAMME CODE : BNA/BNB/BNC

COURSE NAME : CONSTR. CONTRACT AND PROCUREMENT

COURSE CODE : BNP 21203

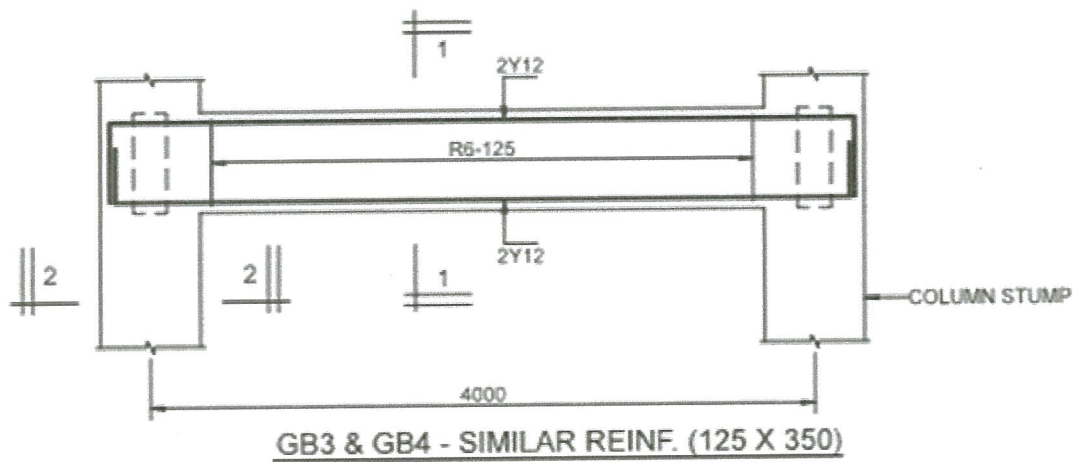
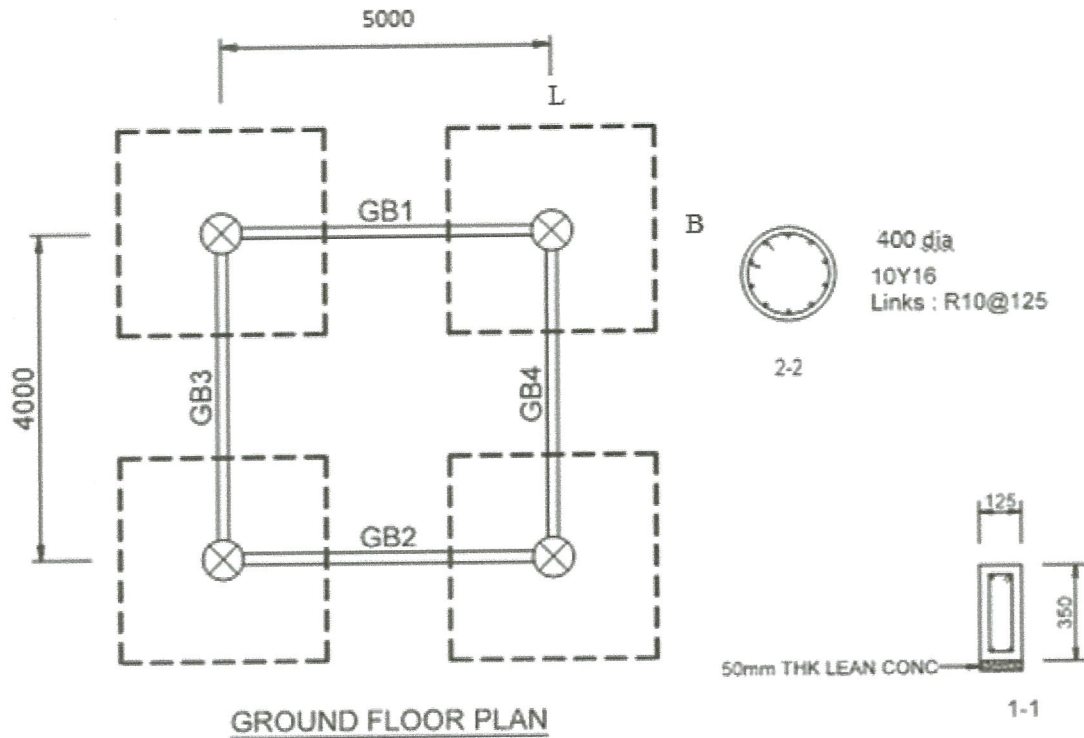


FIGURE Q4 (b) : GROUND FLOOR PLAN AND CROSS SECTION GROUND BEAM