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**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER I  
SESSION 2019/2020**

COURSE NAME : BULDING CONSTRUCTION II  
(DESIGN AND DETAILING)

COURSE CODE : BFR 32003

PROGRAMME CODE : BFR

EXAMINATION DATE : DECEMBER 2019 / JANUARY 2020

DURATION : 3 HOURS

INSTRUCTION : ANSWER **ALL** QUESTIONS

THIS QUESTION PAPER CONSISTS OF **FIVE (5)** PAGES

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- Q1** (a) Define the meaning of 'setting out' and its purpose in field works. (3 marks)
- (b) Describe the meaning of Levelling Process. (2 marks)
- (c) **FIGURE Q1 (c)** is a sample of levelling process. List and explain all **FOUR (4)** terms used in Levelling Process. (8 marks)
- (d) With the aids of illustration, list and explain **FOUR (4)** types of Shallow Foundations (12 marks)
- Q2** (a) Describe with illustrations **FOUR (4)** basic design principles of retaining wall. (8 marks)
- (b) Describe with illustration this two types of retaining wall. (8 marks)
- (i) Crib Wall
- (ii) Sheet Piling
- (c) List **FIVE (5)** advantages of using Concrete Piling. (5 marks)
- (d) Compare the differences between shallow foundation and deep foundation. (4 marks)
- Q3** (a) Explain **FIVE (5)** benefits of using Industrialized Building System (IBS). (5 marks)
- (b) Briefly explain **FIVE (5)** common types of Industrialized Building System (IBS). (5 marks)
- (c) With aid of illustration, compose the construction method of Industrialized Building System (IBS) from the Foundation Phase until the Floor Topping Works Phase. (15 marks)

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- Q4** (a) With the aids of illustration, describe **FIVE (5)** types of long span structures in concrete. (10 marks)
- (b) **FIGURE Q4 (b)** shows a section A-A of single storey community hall. Material used for the building are brick masonry and timber roof structures. Sketch a section drawing with specification of **Detail A** . (15 marks)

– END OF QUESTIONS –

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PROGRAMME CODE : 3 BFR  
COURSE CODE : BFR32003

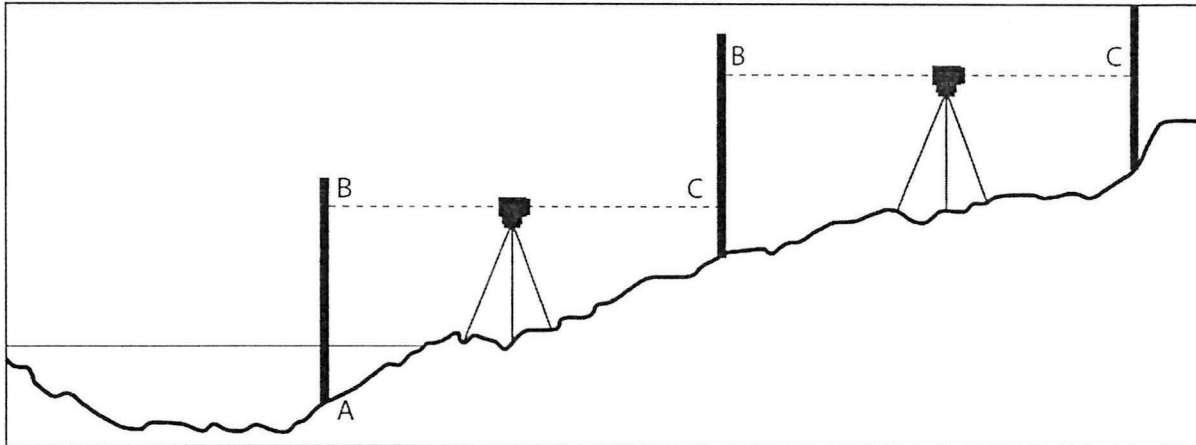


FIGURE Q1 (c)

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SEMESTER/SESSION : SEM I / 2019/2020  
NAMA KURSUS : BUILDING INFRASTRUCTURE

KOD PROGRAM : 3 BFR  
COURSE CODE : BFR31903

NAMA KURSUS : AMALAN GEOMATIK

COURSE CODE : BFR32003

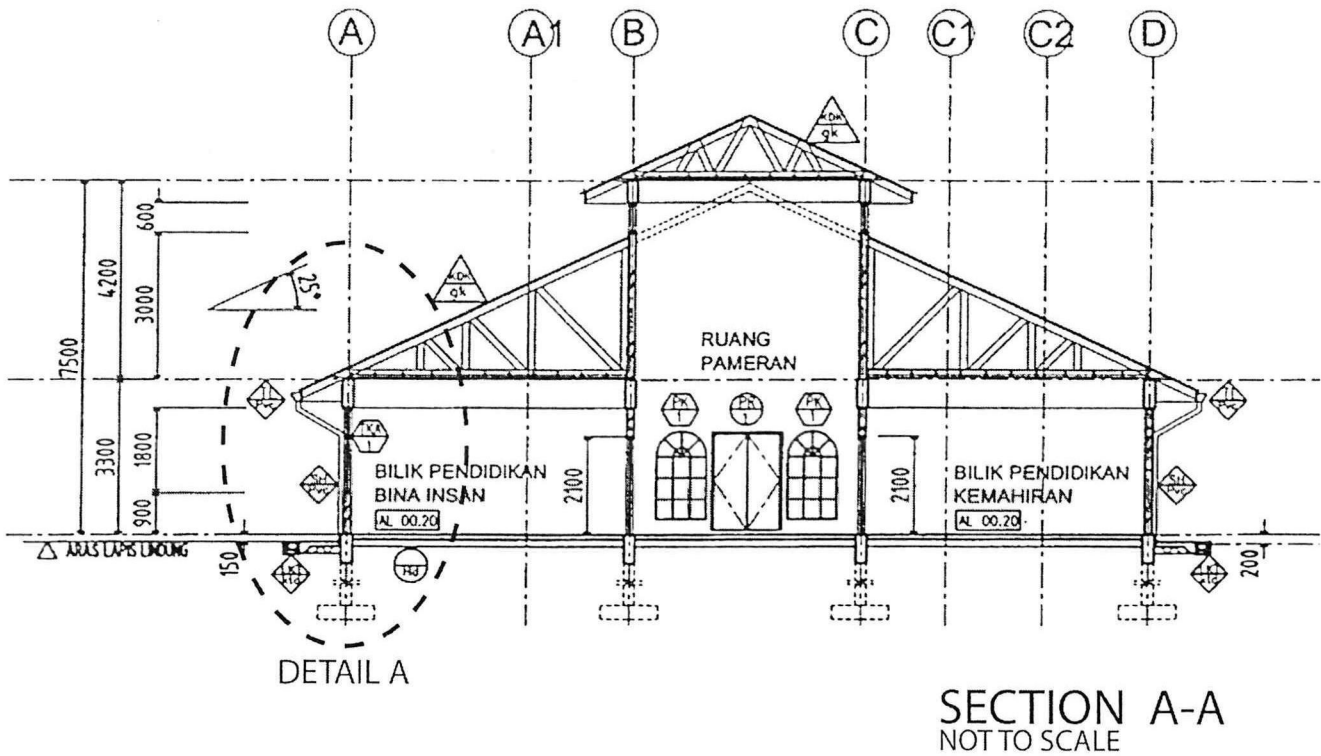


FIGURE Q4 (b)

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