

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME : BUILDING SERVICES

COURSE CODE : BPD 32902

PROGRAMME CODE : BPC

EXAMINATION DATE : DECEMBER 2018 / JANUARY 2019

DURATION

: 2 HOURS

INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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Q1 (a) The water distribution system is intended to ensure that consumers receive adequate water supply. One of the commonly used systems is the gravity system.

Describe TWO (2) characteristics of the system.

(5 marks)

- (b) A residential area will be built on a hill. The closest source of water is from River A, located 50m down from the top of the hill. Basic facilities such as distribution of clean water supply will be streamlined into the area. As a project manager, you are required to:
 - (i) Illustrate a water supply distribution system from the river up to the residential area on the hill.

(10 marks)

(ii) Discuss **TWO** (2) types of water supply systems used in residential houses using a schematic drawing.

(10 marks)

(c) Describe the components A to J in **Figure Q1** and their functions.

(10 marks)

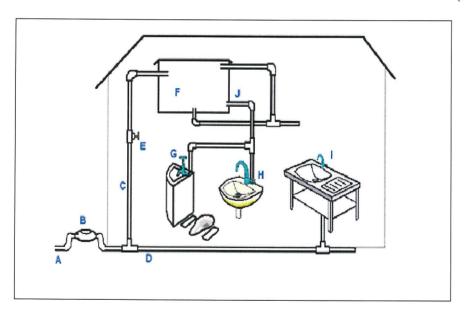


Figure Q1: Water Supply System





- Q2 (a) Discuss the following:
 - (i) Self-Siphonage
 - (ii) Trap

(5 marks)

(b) After the sanitary pipe works are completed, there is a need to test its effectiveness.

Discuss TWO (2) purposes of sanitary pipe tests run.

(5 marks)

(c) Compare a single stack system and modified single stack system.

(10 marks)

Q3 (a) Relate the importance of fire safety system in obtaining the Certificate of Completion and Compliance (CCC) in construction industry.

(10 marks)

(b) Lift has a significant impact on the functioning of a building. It makes vertical movement quicker and easier compared to paternoster.

Differentiate electric lift and hydraulic lift with the aid of sketches.

(10 marks)

Q4 (a) Air conditioning system is the process of treating air to simultaneously control its temperature, humidity, cleanliness (purity) and distribution to meet the requirements of the conditioned space. There are several systems for air conditioning units often used in commercial buildings.

Discuss **FIVE** (5) selection criteria for air conditioning system.

(10 marks)

(b) Demonstrate the components of a window unit air conditioning system with the aid of sketches.

(15 marks)

- END OF QUESTIONS -

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