Institute of Human Resource Advancement (IHRA)

University of Colombo, Sri Lanka

Bachelor of Labour Management - Year II 2022/2023

2nd Semester Examination – English Medium

(Held in March, 2023)

BLM2233 – Technology Management

Instructions to the Candidates

(1)   This paper consists of six (06) questions and two (02) pages.

(2)   Answer five (05) questions.

(3)   Time allocated for the examination is three (03) hours.

(4)   Write your Index Number on all pages of answer scripts.

(5)   If a page or a part of this question paper is not printed, please inform the Supervisor immediately.

01.

    I. What is the Fourth Industrial Revolution? (08 Marks)

    II. Briefly explain following technologies; Big data

            a) IOT (Internet of Things)
            b) Autonomous Robots
            c) Cloud Computing

                                    (12 Marks)

                                (Total 20 Marks)

02.

    I. What is Technology Management?

                                  (04 Marks)

    II. What are the Tasks of Technology Management?

                                  (12 Marks)

    III. How to select correct technology for the organization? Briefly explain using examples.
                                  (04 Marks)

                                  (Total 20 Marks)

03. Briefly explain following I to V,

    I. What is data and Information? (04 Marks)

    II. What is Data base system? (04 Marks)

    III. Application of Data Base Management System. (04 Marks)

    IV. Characteristics of data base (04 Marks)

    V. Write advantages of Data Base Management System. (04 Marks)

                                  (Total 20 Marks)

04.

    I. What are the three basic principles of information security? Define each one?

                                  (07 Marks)

    II. What is digital certificate? (04 Marks)

    III. How digital certificate works in Internet, explain briefly. (06 Marks)
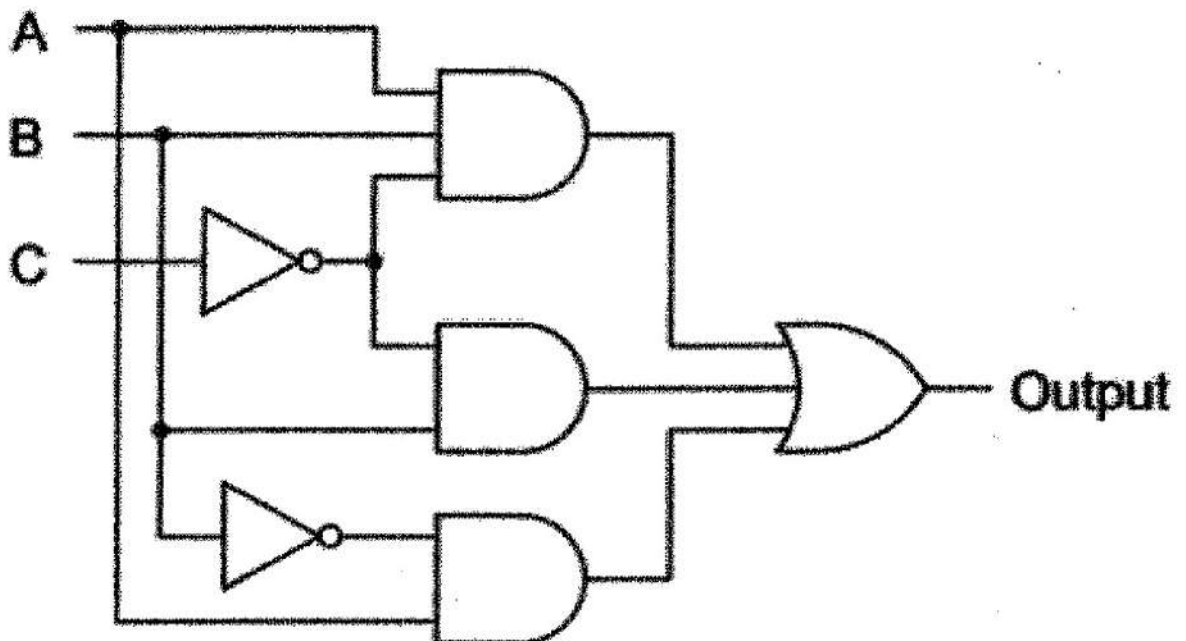
    IV. What is Certificate Authority? (03 Marks)

                                  (Total 20 Marks)

05.

    I.   Discuss about security issues in E-mail?   (05 Marks)

    II.   Briefly explain what is malware and what are the common techniques used against malware spread.   (05 Marks)

    III.   How can you prevent your organization from malware attacks?   (05 Marks)

    IV.   Briefly explain usage of firewall?   (05 Marks)

                                                             (Total 20 Marks)

06.

    I. $7FB_{16}$ Convert to Octal Numbers   (05 Marks)

    II.   Prove the following Demorgan's laws using laws of Boolean algebra or verified using a truth table   (10 Marks)

            (a) $(A + B)' = A'.B'$

            (b) $(A.B)' = A' + B'$

    III.   Write The Output for the following circuit diagram.   (05 Marks)

                                                             (Total 20 Marks)

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