



Horizon College of Business and Technology

Faculty of Information Technology

BSc (Hons) Information Technology / BIT (Hons) in Network and Mobile Computing

Third Year Second Semester Examination (Online) – September 2020

IT32033: Cloud Computing

Time allowed: Two (02) hours (9.00 a.m. - 11.00 a.m.)	2 Pages	4 Questions
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INSTRUCTIONS:

1. Answer ALL the Questions.
2. If you do not have a laptop/PC take a piece of paper and write your index number (E.g.; IT2017601) on the top of each and every paper. Then write the answer(s) by clearly mentioning question numbers, page numbers, and then take a photo of the answer sheet and upload the documents via LMS and email as instructed below.
3. **Submit your answers before 11.20 a.m.** Answers submitted after 11.20 a.m. will not be accepted.
4. Please avoid multiple submissions of your final exam answer script.

METHOD OF SUBMISSION:

1. Complete the Submission Sheet.
2. Make sure that all pages are attached to the email as a **PDF document**.
3. In the email, the subject line should be according to format given below.
<Course Code> <Course Name> <your Index No>
E.g.; **the subject line of email will be:**
IT32033 Cloud Computing IT2017601
4. If handwritten, attach the photograph of the COMPLETED Submission Sheet with your signature and then answer script of your final exam (complete document).
5. Email your answer script of your final exam paper to **hcit0001@gmail.com**
6. In addition, **submit your answers via LMS** link provided.

IMPORTANT: Academic dishonesty and plagiarism

Academic dishonesty involves any attempt to gain academic advantage by doing something misleading or unfair. Attempting to communicate with or copy from another student during an exam is considered as a serious examination violation. If found to be copied or any form of plagiarism, an inquiry will be held once the Campus starts. Marks and the grades of such instance will not be released and students may have to **repeat the whole examination** in such occasions.

You are hereby advised NOT to involve in any such activities during this examination.

Question 1

(Total 25 Marks)

- a) Explain *EC2* with examples.
- b) Describe *S3 of CLOUD* and its advantages.
- c) What are the two (2) types of *IaaS in CLOUD*?
- d) Describe *CLOUD Services* and *CLOUD roles*.

Question 2

(Total 25 Marks)

- a) Describe the *Google App Engine* and its architecture.
- b) Describe the *Windows Azure* and its architecture.
- c) Describe the *EKC* (Enterprise Knowledge Cloud).
- d) Describe the *EKM* (Enterprise Knowledge Management).

Question 3

(Total 25 Marks)

- a) Describe *Mobile Cloud Computing* (MCC) and its advantages.
- b) Describe different advantages of MCC.
- c) Explain two types of offloading in MCC architecture.
- d) Describe *Context-aware Mobile Cloud Services*.

Question 4

(Total 25 Marks)

- a) What is “Big Data”?
- b) What are the two (2) common techniques to improve the *data processing* capabilities in an organization?
- c) Describe the two (2) different approaches in *data processing* of an organization.
- d) Describe *OLAP*.
