SOUTHWESTERN UNIVERSITY NIGERIA

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FACULTY OF PURE & APPLIED SCIENCES

DEPARTMENT OF COMPUTER SCIENCE

HND TO BSC CONVERSION PROGRAMME

2018/2019 FOURTH SEMESTER EXAMINATION

COURSE CODE: CMP 493 **COURSE TITLE:** Selected Topics in Computer Science

INSTRUCTION: Answer question 1 and any other three (3). **TIME:** 2hrs

1. (a) Explain three general purpose of performance evaluation?
   (b) Explain the following category of performance measure with respect to their possible measure.
   (i) Responsiveness (ii) Usage level (iii) Missionability
   (iv) Dependability (v) Productivity
   (c) Explain explicitly, the following techniques of performance evaluation Measurment, Simulation, Analytic Modeling

2. (a) Highlight the ten (10) steps for a performance evaluation study
   (b) The diagram below shows a classification of different performance metrics, explain each terms (with bold formatting) in level 2.

Level 1

Level 2

Correctly performed ..... **Turnaround time**

..... **Response time**

..... **Through put/Productivity**

..... **Utilization of a resource**

Incorrectly performed ..... **Reliability**

Unable to do ..... **Availability**

3. (a) Highlight the 6 levels of schema that can be used to express Multi-DBMS.
   (b) Explain the following mathematical logic that must be considered when dealing with deductive database
   (i) Term (ii) N-ary predicate
   (iii) Literal (iv) Formular (well-formed)
   (v) Clause and horn-clause (vi) Facts (vii) Logic programs