BINUS University

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| **No.** | **Deskripsi Soal** | **LO** | **Bobot** |
| 1 | Penerapan class dan object | 1,2 | 20 |
| 2 | Data and Function Specifiers | 4 | 20 |
| 3 | Reference, Pointer, and Passing Parameters | 3,4 | 20 |
| 4 | Overloading Operators | 3 | 20 |
| 5 | Inheritance & Composition 2 and Generic Programming | 4 | 20 |

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| **BINUS ONLINE LEARNING**   **Graduate Program**  **Undergraduate Program** | | | **Semester: ~~Odd~~ / Even \*) Period: ~~1~~ / 2 \*)** | |
| * **Final Exam** |  **Others Exam:** | | **Academic Year:**  **2021/2022** | |
| Faculty / Dept. | : | Binus Online Learning/Computer Science | Student ID | : |
| Course | : | COMP6618036 - Object Oriented  Programming |
| Day/ Date | : | Senin – Senin / 15 – 22 Agustus 2022 | N a m e | : |
| BULC | : | Bandung, Bekasi, Jakarta, Malang, Palembang,  Semarang |
| Class | : | BQCA, TQCA | Signature | : |
| Time | : | 00.00 – 12.00 WIB |
| Exam Feature | : | Open/ ~~Close~~ Books\*) |
| Equipment | : | Exam Booklet / Calculator / Laptop 🞸) |
| 🞸) *Strikethrough the unnecessary items* | | | | |
| ***Please insert this test paper into the exam booklet and submit both documents after the test!!!***  ***The penalty for CHEATING is DROP OUT!!!*** | | | | |

1. Jawablah setiap pertanyaan yang berada pada bagian **PERTANYAAN UJIAN** dibawah ini
2. Jawaban di ketik rapi pada halaman **JAWABAN UJIAN** dibawah ini
3. Jawaban dikumpulkan paling lambat tanggal **22 Agustus 2022** dalam bentuk file dan submit melalui portal ujian
4. Format file Jawaban adalah : KodeMatakuliah-Nama Matakuliah-NIM.pdf Contoh : **COMP6618036-ObjectOrientedProgramming-2012345678.pdf**

**PETUNJUK UJIAN**

PERTANYAAN UJIAN

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| **No.** | **Deskripsi Soal** |
| 1 | * Sebuah kafe sedang membutuhkan sebuah sistem pembayaran kasir. Sistem pembayaran kasir terbagi atas 3 jenis, yaitu pembayaran tunai, pembayaran e-wallet, dan pembayaran kartu kredit. Ketentuan dari ketiga Jenis pembayaran adalah sebagai berikut:   + Pembayaran tunai: total tagihan ditagih normal   + Pembayaran e-wallet: total tagihan ditambah dengan biaya admin IDR 10,000   + Pembayaran kartu kredit: total tagihan ditambah dengan biaya charge bank sebesar 5% * Rancanglah aplikasi pembayaran kasir tersebut dengan menggunakan bahasa pemrograman C++ sesuai ketentuan di atas dan pastikan untuk mengimplementasikan:   + Class dengan data member dan member function yang tepat   + Pemanggilan object   + Accessor dan implementor   + Constructor dan destructor   + Inheritance   + Polymorphism |

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| **RUBRIK PENILAIAN** | | | | | | |
| LO  Bobot Level | KONTEN / ELEMEN | SKORE : % dari Bobot | | | | NILAI  Skor x bobot |
| (85 <= 100) | (75 <= 84) | (65 <= 74) | (<= 64) |
| LO1  Differentiate 10 | Ability to identify the examples of OOPs | The identification is stated clearly with complete examples | Pseudo Code, Flowchart, or NS Diagram are relevant to express  the algorithm | The identification is correct | The identification is incorrect |  |
| LO2  Describe 10 | Ability to explain the concept of generic programming | The explanation is stated clearly and correctly with relevant examples | The explanation is stated clearly and correctly with partially relevant  examples | The explanation is correct | The explanation is incorrect |  |
| LO3  Describe 30 | Ability to explain the concept of data and function modifiers | The explanation is stated clearly and correctly with relevant examples | The explanation is stated clearly and correctly with partially relevant  examples | The explanation is correct | The explanation is incorrect |  |
| LO3  Construct 50 | Ability to construct a complete program using full features of OOP | The construction program is complete with correct syntax of OOP features | The construction program is not complete with correct syntax of OOP features | The construction program is not complete with some correct syntax of OOP features | The construction program is not complete and with incorrect syntax of OOP features |  |
| **TOTAL NILAI UJIAN** | | | | | |  |

**JAWABAN UJIAN**