Pokhara University

TIME-BOUND HYBRID EXAMINATION

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| Level: Bachelor | Semester – ... | Year: ... |
| Program: BE | | Full Marks: 70 |
| Course: ... | | Pass Marks: 31.5 |
|  | | Time: 2 hrs. |

*Candidates are required to answer in their own words as far as practicable. The figures in the margin indicate full marks.*

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| **Group - A: Attempt all questions (5\*10=50)** | |  |
| Q. N. 1 | Explain Web Services Data Standards and Interoperability - SOAP, WSDL, UDDI and eBXML with suitable example.  OR,  Write as many test cases as you can for the **issue book** and **return book** use cases in the library management system. | 10 |
|  | Unit 1: Introduction |  |
| Q. N. 2 | Write down about the Source Code Management, Continuous Integration and Software Testing? Provide an example for the Movie Ticket Booking use case.  Unit 2. Development Process Management | 10 |
| Q. N. 3 | What do you mean by Design Patterns? What are its different types? Give any one suitable example to implement Singleton Design Pattern?  Unit 3: Design Pattern | 10 |
| Q. N. 4 | What do you mean by Web Application Architecture? Describe Service-Oriented Architecture (Microservices SOA) in more details.  Unit 4: Web Application Architecture | 10 |
| Q. N. 5 | what do you mean by SOA AND REST API? When to use them. Give example of REST API.  Unit 5: SOA and RESTFUL Web Services | 10 |
| **Group - B: Problem-solving/case studies (1\*20=20)** | |  |
| Q. N. 6 | a. what do you mean by SQL injection and how to Exploit SQL injection Attack?  b. What are the different Agile Testing Methodology? Describe them in details with suitable examples.  Unit 6: Software Security  Unit 7: Software Development Methodologies |  |

*Best of Luck!*