

**BRAC UNIVERSITY**  
**Department of Computer Science and Engineering**

Examination: Quiz 4  
Duration: 35 minutes

Semester: Fall 2022  
Full Marks: 15

**CSE 471: System Analysis and Design**

<b>Name:</b>	<b>ID:</b>	<b>Section: 07</b>
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1 <u>CO2</u>	<p>Suppose there is Hotel management software where customers can reserve rooms. They can see room availability, price quotation and amend facilities like laundry services, personal pool, room services etc. In the price quotation page, customers can see a list of rooms with price. while selecting any room it will take the customer to the payment page. Customers can either make payment or return to the home page. Currently this company maintains a website but they want a mobile application. You have to <b>design</b> a Window navigation diagram for their Mobile App. Take necessary assumptions where needed.</p>	6
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2 <u>CO1</u>	<ul style="list-style-type: none"> <li>a. Explain how denormalization can Optimize Access Speed?</li> <li>b. Explain the ideal number of Fan-In and Fan-out with respect to the structure chart and Why it is encouraged?</li> </ul>	4
2 <u>CO2</u>	<p>A central Food ordering system receive customer order from Get order module and send it to process order. Process order module send the customer order information to Generate order module and receive order details from it. After that Process order send this order details to food ordering service and to generate report module. Finally food ordering system sends inventory data to update inventory file or update inventory database module where update inventory file is continued to another page and update inventory database is continued to same page of structure chart.</p>	5

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