20-ARID-688

Total Points: 18

Time: 60 minutes

Attempt All Questions.

Q1(a)	Following is a case study of a Content Management System for a News Paper. Read the case study carefully and perform appropriate tasks: The Content Management System of the new paper organization is totally web-based it can be run on the internet or on the internet according to the user demand. Here we will manage all the news & other modules related to the organization. There are a few basic modules which are as follows: Administration Records, New updates with pictures, Breaking news, Link up with Facebook, Twitter, etc., Display of whole New Paper, Index of the News Paper. Develop a corresponding class diagram showing all classes with their attributes and operations, various associations, and their multiplicity are mandatory.	4 Points
(b)	UIIT is in the process of designing a Courseware Management System. Within this system, there is a module called "Course Information Management". The module performs the following tasks; • Course administrator invokes the manage course functionality. • The manage course functionality of the course administrator invokes either the course creation or course modification functionality of a course. • After the course is either created or modified, the manage topic functionality of the course administrator calls the topic creation or modification functionality of a topic. • Finally, the administrator invokes the assigned tutor to the course functionality of the course administrator to assign a tutor to the selected course. Develop a sequence Diagram for the given scenario.	4 Points
Q2(a)	A computerized library system for a university keeps track of all books and periodicals in the library and their check-out status. Checkout and return are automated through a barcode reader (an external device). The library system also interfaces with an external relational database which stores information about the library users (students, faculty, and staff), including whether they have any library items checked out. Library users can access the catalog and recall books and periodicals. Library employees have the same access as well as additional capabilities (e.g., listing the status of an item) Perform the following activities 1. Identify the actors 2. Identify the use cases 3. Draw the High-level diagram for all use cases Write the textual use case for the "Managing Books"	4 Points
Q3(a)	Briefly outline the Rational unified dimensions process	3Points
(b)	Differentiate between Association with no navigability and class aggregation.	3Points

Good Luck