Daffodil International University

Department of Computer Science and Engineering

Faculty of Science and Information Technology

Final Examination   FALL 2019

Course Code: CSE214   Course Title: Object Oriented Programming

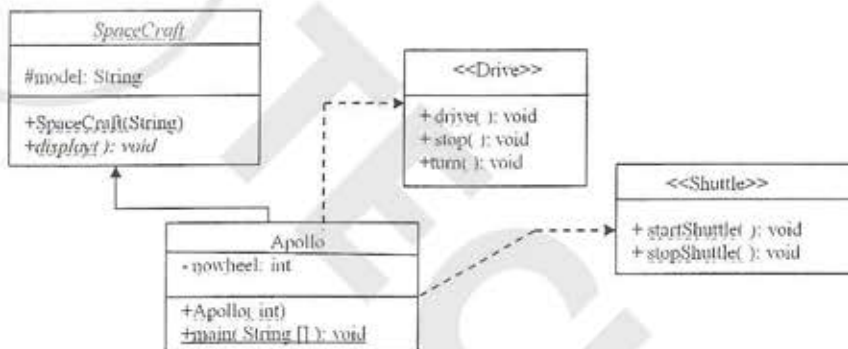Level : 2   Term: 1   Section: ALL

Instructor: ALL

Time: 2hrs   Full Marks: 40

Question 1:   03+07

(a) Write the use of "interface" in OOP using Java. Give example.

(b) Consider the following UML digram:

(i)   Describe different component used in the above UML diagram.   (05)

(ii) How "interface" is different from "class".   (02)

Question 2:   03+07

(a) Explain the use of two interfaces *Drive* and *Shuttle* in the above UML model.

(b) Implement the UML model using Java.

Question 3:   05+05

(a) Create a new UML model extending the above model for *Voyezar* along with *Apollo*.

(b) Explain the new UML model from the perspective of inheritance and polymorphism.

Question 4:   10

Create a UML model for the following scenario:

Patient attend Hospital. Patient has patientID, name, dateofbirth and cell. Hospital has hospital name and address and cell. Sqaure is a Hospital and it has Diagonstic Center. HeartPatieint is a Patient and it has blood pressure and status. Patient uses Pathology service which has check and report as service. Hospital uses Admission Service which has getAdmission and release service.

------------------ Good Luck ----------------------