

<b>Name:</b>	 <b>UPES</b> UNIVERSITY WITH A PURPOSE
<b>Enrolment No:</b>	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, May 2019**

**Course: BCA**  
**Program: Agile Systems**  
**Course Code: CSBC 2004**

**Semester: IV**  
**Time : 03 hrs.**  
**Max. Marks: 100**

**SECTION A**

S. No.		Marks	CO
Q 1	Explain waterfall model of software development	4	CO1
Q 2	Explain time boxing methodology for software development	4	CO2
Q 3	Explain the utilization of Iterative and Incremental Development models in Agile systems.	4	CO1, CO3
Q 4	Explain 3 important characteristics of a bad software design to avoid.	4	CO5
Q 5	Explain Open Close Principle (OPC) while writing classes in software development.	4	CO4

**SECTION B**

Q 6	Discuss all the 4 Agile Software Development Values.	10	CO4
Q 7	Differentiate between waterfall and agile development methodology for software development	10	CO3
Q 8	Explain the importance of ETVX approach towards website development for a school	10	CO2
Q 9	Describe the usage of Crystal methodology for the library software development	10	CO5

**OR**

	Describe the usage of SCRUM approach of agile software development for a school.		
--	--	--	--

**SECTION-C**

Q 10	Describe the software development of railway reservation system using Agile methodology with Data Processing, Composition & Architectural Model.	20	CO5
Q 11	Explain the Sales Process in a shoe manufacturing company. How does software developed with agile methodology shall implement it better?	20	CO4, CO5

**OR**

	Explain how 4 values are associated with 12 principles in Agile manifesto		CO4, CO5
--	---	--	-------------



<b>Name:</b>	 <b>UPES</b> <small>UNIVERSITY WITH A PURPOSE</small>
<b>Enrolment No:</b>	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, May 2019**

<b>Course: BCA</b> <b>Program: Agile Systems</b> <b>Course Code: CSBC 2004</b>	<b>Semester: IV</b> <b>Time : 03 hrs.</b> <b>Max. Marks: 100</b>
--	--

**SECTION A**

S. No.		Marks	CO
Q 1	Explain prototype model of software development	4	CO1
Q 2	Explain the importance of OPC in agile software development.	4	CO2
Q 3	Explain Dependency Inversion Principle used in software development.	4	CO1, CO3
Q 4	Explain Interface Segregation Principle in software design and development.	4	CO5
Q 5	Explain the importance of Extreme Programming.	4	CO4

**SECTION B**

Q 6	Discuss all the 12 Agile Software Development Principles	10	CO4
Q 7	Explain the usage of Rapid Application Development methodology for software development	10	CO3
Q 8	Explain the importance of Extreme programming over waterfall model for software development.	10	CO2
Q 9	Describe the usage of DSDM methodology for the software development for a fast food centre.	10	CO5

**OR**

	Describe the usage of Feature Driven Development approach of agile software development for a fuel filling station.		CO5
--	---	--	-----

**SECTION-C**

Q 10	Explain the Equipment Procurement Process in a company. How does software developed with agile methodology shall implement it better?	20	CO5
Q 11	Describe the software development of movie ticket booking system using Agile methodology with Data Processing, Classification and Stimulus/ Response Model	20	CO4, CO5

**OR**

	Explain the importance of 4 values and their association with respective 12 principles in Agile manifesto.		CO4, CO5
--	--	--	-------------