Shri Shankaracharya Institute of Professional Management & Technology

Department of Computer Science & Engineering

Class Test – II Session- Jan – June, 2022 Month-June.

Sem- CSE 6th, Subject-**Compiler Design** Code- **C022611(022)**

Time Allowed: 2 hrs Max Marks: 40

Note: - ***1. Attempt All Questions. Each Question carries 8 marks.***

Q.N.	Questions	Marks	Levels of Bloom's taxonomy	COs
	PART I			
1.	Consider The following Grammar: S→ CC, C→ cC, C→ d Draw SLR Parse table.	[8]	Applying	CO2
2.	Explain quadruples, triples and indirect triples. Give their examples. Give the quadruples, triple and indirect triple representation of the statement x = (a + b) * + - c / d.	[8]	Applying	CO3
3.	Explain synthesized and Inherited attribute with example.	[8]	Understanding	CO3
4.	Explain different issues related to code generation.	[8]	Understanding	CO4
5.	Explain various code optimization techniques.	[8]	Understanding	CO5

Shri Shankaracharya Institute of Professional Management & Technology

Department of Computer Science & Engineering

Class Test – II Session- Jan – June 2022 Month-June.

Sem- CSE 6th Subject-Cryptography & Network Security Code-C000619(022)

Time Allowed: 2 hrs **Max Marks: 40**

Note: - In Unit II, IV,V. All questions are compulsory . Each question carries eight marks.

Q.N.	Questions	Marks	Levels of Bloom's taxonomy	COs
1	Illustrate Advanced Encryption Standard Iin detail.	[8]	Understanding	CO2
2.	Point out and describe the encryption operations involved in RC4.	[8]	Understanding	CO2
3.	Illustrate FIREWALL design principles indetail.	[8]	Understanding	CO5
4.	Describe the process of Digital signature through diagram.	[8]	Applying	CO4
5.	Differentiate between MAC and HMAC .	[8]	Understanding	CO4

Shri Shankaracharya Institute of Professional Management & Technology

Department of Computer Science & Engineering

Class Test – II Session- Jan– June, 2022 Month-June

Sem- CSE 6th (A+B) Subject- Internet of Things(Professional Ellective-II) **Code-C022632(022)**

Time Allowed: 2 hrs Max Marks: 40

Note: - All questions are Compulsory.

Q.N.	Questions	Marks	Levels of Bloom's taxonomy	COs
Q1	Discuss the applications of actuators in IoT? Differential a thermal actuator with soft actuators	[8]	Understanding	CO3
Q2	Differentiate the working principles of IR sensor and PIR Motion Sensors with proper diagram	[8]	Analysis	CO3
Q3	Implement a pseudo code to run a servo motor connected to aurduino board	[8]	Apply	CO4
Q4	Demonstrate different componenets of Raspberry Pi board	[8]	Apply	CO4
Q5	Discuss the properties and charecteristics of cloud computing models	[8]	Understanding	CO5

Shri Shankaracharya Institute of Professional Management & Technology
Department of Computer Science & Engineering
Class Test – II Session- Jan – June, 2022 Month- June

Sem- CSE 6th, Subject-**Artificial Intelligence & Expert Systems Code-C022613(022)**

Time Allowed: 2 hrs Max Marks: 40

Note: - ***All questions are compulsory. Each questions carries 8 marks.***

Q.N.	Questions	Marks	Levels of Bloom's Taxonomy	COs
A.	What do you understand by learning in Artificial Intelligence? Describe the learning model used in AI.	[8]	Understanding	CO3
B.	Illustrate Decision tree.	[8]	Analyze	CO3
C.	Discuss the basic steps of Natural Language Processing.	[8]	Remembering	CO4
D.	Solve the following block world problem 	[8]	Apply	CO4
B.	Write a program in PROLOG to calculate the factorial of any number.	[8]	Create	CO5

Shri Shankaracharya Institute of Professional Management & Technology

Department of Computer Science & Engineering

Class Test – II Session- Jan – June, 2022 Month-June

Sem- CSE 6th Section (A & B)

Subject- Software Engineering & Project Management (SEPM)

Code- C022612(022)

Time Allowed: 2 hrs Max Marks: 40

Note: - Attempt any five questions form given questions set ,all carry equal marks).

Q.N.	Questions	Marks	Levels of Bloom's taxonomy	COs
(a).	Define the term project scope management. Explain its importance in details.	[8]	Understanding	CO3
(b)	Describe project breakdown structure	[8]	Understanding	CO3
(c).	Define the term Formal Technical Review. Explain its purpose and importance in details	[8]	Remembering	CO4
(d).	Define organizational chart. Create sample Organizational Chart for a Large IT Project	[8]	Remembering	CO5
(e)	Define project human resource management and understand its processes.	[8]	Understanding	CO5
(f).	Write short notes on:- 1. ISO 9001 2..rescource leveling	[8]	Understanding	CO4 and CO5