

Scrutinized Internal Assessment – I

(IQAC)

[AUG - DEC 2021]
ODD



**SRI DHARMASTHALA MANJUNATHESHWARA COLLEGE,
OF ENGINEERING AND TECHNOLOGY**

Department of Computer Science & Engineering

Davalagiri Dharwad-580002



3rd Semester

Sl.No	Subject Code	Subject Name
1	18UCSC300	Digital Electronics
2	18UCSC301	Discrete Structures in Computer Science
3	18UCSC302	Data Structures & Applications
4	18UCSC303	Computer Organization & Architecture
5	18UCSC304	Introduction to Unix Operating Systems

5th Semester

Sl.No	Subject Code	Subject Name
1	18UHUC500	Management, Enterpreuership & IPR
2	18UCSC500	Data Communication
3	18UCSC501	Database Management Systems
4	18UCSC502	Compiler Design & System Software
5	18UCSC503	Software Engineering
6	18UCSC508	Advanced Object Oriented Programming

7th Semester

Sl.No	Subject Code	Subject Name
1	18UCSC700	Artificial Intelligence and Machine learning
2	18UCSC701	Advanced Computer Architecture
4	18UCSE706	Software Testing
5	18UCS0707	Web Technology
6	15UCSE711	Internet of Things



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SDM COLLEGE OF ENGINEERING & TECHNOLOGY, DHARWAD

B.E (Computer Science and Engineering)

Internal Assessment - I

Class : III
 Course Title : Introduction to UNIX operating system
 Course Code : 18UCSC304
 Course Instructor: Prof. R G Yadawad / Prof. S G Yadawad

Date: 26-11-2021
 Max. Marks: 20
 Duration : 1 hr

Note: Answer Any One question from Q.No.1 and Q.No.2, Q.No.3 is Compolsory.

Q1. Explain the output for the following:

- i) ls | wc
- ii) head -n 3 emp.lst | tr '[a-z]' [A-Z]
- iii) date | cut -d " " -f 2
- iv) cat emp.lst | cut -d " " -f 2 | tee shortlist
- v) cut -d "|" -f 3 emp.lst | sort | uniq

[Marks:10, CO-3]

Q2. Explain grep command with its options -i, -n, -c. write the output of each option considering your own database.

[Marks:10, CO-3]

Q3. a) List and Explain the different services offered by operating system.

[Marks:5, CO-1]

b) With a neat diagram explain in detail life cycle of a process.

[Marks:5, CO-2]



*Q3 a) Refering to the level *****
 b) Explain the layered architecture of UNIX operating system.
 Syllabus: - Unit-1, unit-2
 P.E.M.: - Assignment
 Date: 23/11/2021*

b) write a C program to find biggest of three numbers using command line arguments. write sample input and output.

USN:

2	S	D							
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SDM College of Engineering & Technology, Dharwad -580 002

Department of Computer Science and Engineering

Internal Assessment I

Semester & Branch: V (A and B) ✓

Course Code & Title: 18UCSC500 Data Communication ✓

Course Instructor: Prof.Sandhya S.V & Dr. A.A.Qazi ✓

Date: 24-11-2021 ✓

Duration: 1 Hr

Max. Marks: 20 ✓

Note: Q3 is compulsory. Answer any one from Q1 and Q2.

Q1.

- Define line coding. Represent the sequence of bits 11010 using Bipolar, NRZ-Inverted, Manchester and Differential Manchester line coding methods. [5M, CO-2] ✓
- Consider a scenario where a user requests to access a webpage. Discuss the steps involved in this process of retrieving a web document. [5M, CO-1]

Q2.

- Discuss the mechanism of File Transfer Protocol with a neat diagram. [5M, CO-1]
- Explain the digital transmission of an analog signal with a neat diagram [5M, CO-2]

Q3. Discuss the functionalities of the various layers of OSI reference model with a neat diagram.

[10M, CO-1]

Syllabus: Unit 1, Unit 2 (50%)

PEM: Assignment

Q1 - (a) moderate level,
Q3 - Reframe

Q1, Q3
23/11/21



Semester: V (A & B)

Date: 25-11-2021

Course Code & Title: 18UCSC503 (Software Engineering)

Time: 11am-12pm

Course Instructors: Dr. U.P.Kulkarni, Prof. Rashmi. Patil

Max. Marks: 20

Note: Answer any one full question from Q.No.1 and Q. No.2. Q. No. 3 is compulsory.

Q.1)

a) Explain the essential attributes of good software. What are the key challenges faced in the software engineering? [Marks: 6, CO: 1]

b) "Requirements are fixed", in this scenario which process model is preferred and justify your answer. [Marks: 4, CO: 2]

Q.2)

a) Illustrate requirements engineering process with a neat block diagram.

[Marks: 5, CO: 3]

b) Define Software engineering. Explain Incremental Development process model with a neat block diagram.

[Marks: 5, CO: 1, 2]

Q.3) Given the following case study answer questions below.

Grandma, the owner of Grandma's Soup Unlimited, cans her soup and sells it by e-mail order. She wants to redo her ordering and shipping and like to have a new payroll system in place. During the interview, Grandma mentioned that she wants to her system to be "expandable". She is referring to her plans on opening few more stores in the near future. She wants the flexibility of adding new/different types of services, such as new soups, cans and even hiring new employees. She would like to have better reports made from her data. Based on the interview with Grandma, there are many different kinds of employees, such as clerk, telephone operator, cook, manager, even owner of future stores. Some of the employees are full time, others are part time. All of the employees have some commonalities, but there are also many differences among them. Grandma makes a variety of soups, including Beef-Barley Soup, Beef Stew, Cheese Soup, Cheesy Chicken Corn Chowder, Chicken Vegetable Noodle Soup and Cream of Broccoli Soup. Each soup uses different ingredients. For instance, French Onion Soup contains, onion, butter flour, French Bread, cheddar cheese and vegetables.

- Draw Use case diagram of the Grandma Soup Unlimited system.
- For any one use case, list and explain various possible scenarios.

[Marks: 10, CO: 1, 2, 3]

Syllabus: Unit 1, Unit 2
CO-1, CO-2, CO-3

REM: Open book test

Dr. Rashmi Patil

