

Quiz Date: 27th October 2021

Platform – Hacker Rank

Timings – 1 PM sharp

Duration of Quiz – 40 min.

Questions count in the Quiz - 20 (EACH QUESTION OF 1 mark)

Browser support: Google Chrome

Student need to type the URL **<https://hr.gs/ucs303sess2>** in the **Google Chrome** browser

STUDENT CAN START ATTEMPT **AT 1:00 PM** SHARP.

STUDENT WILL NOT BE ALLOWED TO LOGIN AFTER **1:05 PM**.

AFTER **40 MINUTES** OF QUIZ START IT WILL GET DEACTIVATED AUTOMATICALLY, IN CASE YOU HAVE FAILED TO CLICK FINAL SUBMIT BUTTON, IT WILL GET SUBMITTED AUTOMATICALLY

<https://hr.gs/ucs303sess2>

Password is: *ucs303s2*

Type `https://hr.gs/<to be provided>` in Browser and
Following screen will appear

The screenshot shows a web interface for a quiz. On the left, the Thapar Institute of Engineering & Technology logo is visible, along with the text 'Welcome to UCS303, Sessional-'. Below this is a large blue rectangular area. At the bottom left, there are two input fields: 'Test duration' with a value of 'mins' and 'No. of questions' with a value of '20 questions'. On the right, a light blue box contains the title 'Instructions' and a list of five rules: 1. 20 Questions, 2. Minutes (with a blue input field), 3. No Negative Marking, 4. It's a proctored quiz; so if you switch the window/tab then your marks will get deducted by the system/bot automatically, and 5. Start your Quiz at sharp (with a blue input field). A green 'Continue' button is located at the bottom of the instructions box.

Thapar Institute Of
Engineering &
Technology
Hey Vinayakora,

**Welcome to
UCS303, Sessional-**

Test duration mins No. of questions 20 questions

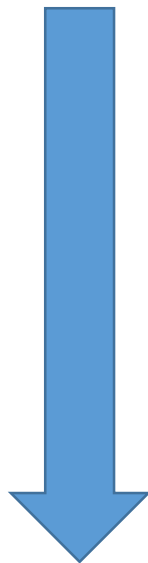
Instructions

1. 20 Questions
2. Minutes
3. No Negative Marking
4. It's a proctored quiz; so if you switch the window/tab then your marks will get deducted by the system/bot automatically
5. Start your Quiz at sharp

Continue

Click Continue

Fill the Confirmation Form



Confirmation Form

Before we start, here is some extra information we need to assess you better.

Email address/Login *

Enter your email address/login

Password *

Enter your password

Full Name *

Enter your full name

Student Roll Number *

Enter your student roll number

Contact Number *

Enter your contact number

Class in charge *

Select

Stream/Branch *

Enter your stream/branch

Declaration Statement *

☐ I agree not to copy code from any source (including websites, books, or friends and colleagues) to complete this assessment.

You agree to HackerRank's [cookie policy](#). We use cookies to ensure you have the best browsing experience on our website.

Agree & Start

**DO NOT FILL THE
PASSWORD OF YOUR
Thapar or Gmail
ACCOUNT/E-MAIL ID
HERE**

**FILL HERE THE
PASSWORD
PROVIDED BY THE
QUIZ
COORDINATOR
THROUGH /
PUBLISHED AT
LMS ONLY**

Your Quiz will get started

TIMER AND ATTEMPT STATUS

UCS303, Sessional-1, 22nd September 2021, 11AM

Answered: 1 / 20 33 mins

Vinay Arora

ALL	QUESTIONS	TYPE	ACTION
1	1. Th1.3	Multiple Choice	Modify
2	SECTION 2		
3	QUESTIONS		
4	2. Th2.2	Multiple Choice	Solve
5	SECTION 3		
6	QUESTIONS		
7	3. Th3.1	Multiple Choice	Solve
8			

**STUDENT CAN MODIFY
THEIR RESPONSES
WITHIN STIPULATED
TIME**

- In the left pan, you can see the numbering from 1-20. These will be your 20 questions, which you can attempt in any order.
- You can move on/at any question any time (within your 40 mins. time duration)
- AN AUTOMATIC TIMER WILL APPEAR AT YOUR SCREEN SO THAT YOU CAN MANAGE ACCORDINGLY.
- CANDIDATE NEEDS TO FINISH AND SUBMIT THEIR QUIZ WITHIN STIPULATED TIME OF 40 MINS.
- FINAL WEBLINK FOR HACKER RANK AND PASSWORD FOR CONFIRMATION FORM WILL BE UPDATED AT LMS ON 27th OCTOBER 2021 AROUND 12:45 AM AND ALSO THE CREDENTIALS WILL BE GIVEN TO THE FACULTY INCHARGE (STUDENT CAN START ATTEMPT ONLY AT 1PM)
- PLEASE NOTE THAT THE **SESSION WILL BE PROCTORED BY A BOT** WHERE IF A CANDIDATE SWITCHES AND SHUFFLES THE SCREEN/WINDOW; IT WILL GET NOTED AND LOGGED. SYSTEM WILL AUTOMATICALLY ASSIGN ZERO TO SUCH CANDIDATES. SO ONCE YOU LOGGED IN HACKERRANK, DO NOT OPEN ANY SIDE WINDOW.
- TO ATTEMPT THE QUIZ USE LAPTOP OR DESKTOP ONLY.
- IN CASE OF ANY CONCERN CONTACT YOUR CLASS IN CHARGE

You may receive a FEEDBACK form from HACKER RANK after test submission, which you may fill or skip.

All the best!!!

TEAM OPERATING SYSTEMS

SYLLABUS FOR THE SESSIONAL

Deadlock: System Model, Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery from Deadlock. **[ON-LINE TEACHING, 9-11 weeks]**

File Systems: File Concept, Access Methods, Directory and Disk Structure, File-System Mounting, File Sharing, Protection, File-System Structure, File-System Implementation, Directory Implementation, Allocation Methods, Free-Space Management. **[ON-LINE TEACHING, 9-11 weeks]**

PLEASE NOTE: All the Chapters & respective Sections refer below are taken from 9th Edition of the book “Operating System Concepts” By Galvin. We (Course Coordinators) don’t take the responsibility for any discrepancy in Chapters & Sections, if someone is referring from any other Edition.

Deadlock: System Model, Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery from Deadlock.	CHAPTER -7 Deadlock (Full Chapter)
File Systems: File Concept, Access Methods, Directory and Disk Structure, File-System Mounting, File Sharing, Protection, File-System Structure, File-System Implementation, Directory Implementation, Allocation Methods, Free-Space Management.	CHAPTER-11 File System Interface (Include Only 11.1, 11.2, 11.3, 11.5, 11.6) CHAPTER-12 File System Implementation (Include Only 12.1, 12.2, 12.3, 12.4, 12.5)

[Total 03 Chapters Deadlock, File System Interface, File System Implementation - Galvin 9th edition]

LAB QUIZ (10 MARKS)

- LINUX/UNIX COMMNADS (LAB ASSIGNMENT 1-2)
- FORK
- MESSAGE PASSING