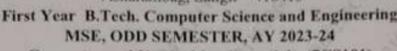# WALCHAND COLLEGE OF ENGINEERING
(Government Aided Autonomous Institute)
Visharambag, Sangli – 416415
First Year B.Tech. Computer Science and Engineering
MSE, ODD SEMESTER, AY 2023-24
Computer and Networking Essentials (7CS101)

| MSE |

PRN: _____

Day & Date: Friday, 27/10/2023   Time : 3.30 pm to 5.00 pm

Max Marks: **30**

IMP: Verify that you have received question papers with correct course code, branch etc.

Instructions
a) All questions are compulsory.
b) Writing question number on answer book is compulsory otherwise answers may not be assessed.
c) Assume suitable data wherever necessary.
d) Figures to the right of question text indicate full marks.
e) Mobile phones, smart gadgets and programmable calculators are strictly prohibited.
f) Except PRN anything else writing on question paper is not allowed.
g) Exchange/Sharing of stationery, calculator etc. not allowed.

Text on the right of marks indicates course outcomes (Only for faculty use)   **Marks**

			Marks	
Q1	A)	What is a computer? Discuss real-time applications of Computer system.	3	CO1
	B)	Draw and discuss the process life cycle.	4	CO1
	C)	What is a scheduler? Discuss different types of its algorithms.	2	CO1
Q2	A)	If you need to transfer 1.5 GB of data from an HDD to RAM, and the HDD has a transfer rate of 120 MB/s, how long will it take to complete the transfer?	3	CO2
	B)	If a computer's RAM has a transfer speed of **3200 megabits** per second (Mbps) and an HDD has a transfer speed of **120 megabytes** per second (MB/s), 1] which one is faster for data transfer, 2] by how much difference?	4	CO2
	C)	Discuss levels of memory hierarchy with the help of neat diagram.	4	CO1
Q3	A)	Convert given binary number into decimal number. 1] 101010 2] 111000	2	CO2
	B)	Convert given decimal number into binary number. 1] 125 2] 435	2	CO2
	C)	Differentiate 1] Primary memory vs secondary memory 2] HDD vs SSD.	6	CO2

·····*End of question paper* ······

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