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2.2.1 The institution assesses the learning levels of the students and organizes for advanced learners and slow learners.

Activities for Slow Learners and Advanced (Fast) Learners.

Sl.No	Name of Documents	Page. No.
1	List of Slow and Advanced learners & Remedial class attendance.	1-15
2	Proctoring details with parent communication.	16-23
3	University question papers	24
4	Question bank/Assignment questions for Slow learners	27
5	Display of toppers in notice board	59
6	Participation in Workshop/Conference/seminars	61

G. Pullaiah
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G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)

G.PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY
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**G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY
(Autonomous)
DEPARTMENT OF CSE**

DATE: 14-3-2021

CIRCULAR

All the III B.Tech I-Sem students are hereby informed that special classes are being conducted in the department from 16-03-2021 from 3:50 PM to 4:50 PM in Virtual mode. The students who have failed in midterm examinations conducted in March 2021 in the respective subjects are instructed to attend without fail.

DAY	SUBJECT	FACULTY
MONDAY	ANGULAR	MISS. SANDHYA
TUESDAY	COMPUTER NETWORKS	MRS. MSREE LAKSHMI
WEDNESDAY	DATA MINING	MR.N.PARASHURAM


Head of the Department
Computer Science and Engineering
G. Pullaiah College of Engg & Tech
Pesupule (V), Nandikotkur Road
Venkayapalli, KURNOOL - 518 452


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III-I CSE RESULTS ANALYSIS (2020-21 BATCH) March 2021

STUDENTROLLNO	Name	ANGULAR INT	COMPILER DESIGN INT	COMPUTER NETWORKS INT	DATA MINING INT	FUNDAME NTAL OF IOT INT
18AT1A0501	AMAIR KHAN	20	15	15	17	19
18AT1A0502	AMMAYYAGARI SHAIK ABDUL KALAM	22	26	28	24	26
18AT1A0503	SHAIK ABDUL KHALID	26	22	20	25	25
18AT1A0504	SHAIK ABDULLA AFSHAN	28	26	28	26	29
18AT1A0505	K. AJAI KISHORE	10	11	21	14	15
18AT1A0506	B AJAY	13	16	21	19	21
18AT1A0507	CHAKALI AKHILA	26	26	30	27	29
18AT1A0508	NESE BANDHIKE AKHILANDESWARI	19	20	24	23	24
18AT1A0509	MANDLA AKSHARA	30	28	29	27	30
18AT1A0510	YEDLLAPALLI ALEKYA	28	26	29	27	29
18AT1A0511	DADEPOGU AMARNATH	11	15	21	17	18
18AT1A0512	Talari Amulya	15	15	15	15	15
18AT1A0513	MOHAMMED ANAS AFFAF	24	22	28	25	28
18AT1A0514	Y ANGEL MAGNUS GWYNETH	11	15	27	21	19
18AT1A0515	K ANIL KUMAR	15	24	24	24	24
18AT1A0516	ADHIKARI ANJANEYULU	24	22	23	25	20
18AT1A0517	VELAMURI ANJANI MAHIMA SUGUNA HARSHITHA	25	16	22	24	26
18AT1A0518	HUTASH ANURAG YERUKALA	12	13	20	21	17
18AT1A0520	MOHAMMED ARSHAD SAEED	13	15	18	22	19
18AT1A0521	M ASHOK REDDY	21	20	24	23	27

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18AT1A0522	S ASLAM BASHA	15	15	15	15	15
18AT1A0523	SHAIK AZEEZ UN NAWAZ	23	22	23	25	22
18AT1A0524	BHAAVANA S	23	24	22	27	25
18AT1A0525	G. BHARGHAV	12	22	22	21	22
18AT1A0526	P BHARGAV	10	15	21	20	20
18AT1A0527	EPURI BHAVANA	30	29	29	28	29
18AT1A0528	BUGUDE BHAVYA	29	28	30	28	30
18AT1A0529	K BHUVANESHWARI	30	29	30	28	30
18AT1A0530	KURUVA BINDU	28	20	26	25	27
18AT1A0531	PERIMELLA CHARANI	30	27	29	28	30
18AT1A0532	KUNDURU CHINMAI	27	27	27	26	28
18AT1A0533	ANUPA DEEKSHITHA	29	24	26	28	28
18AT1A0534	JANGAM DEVI BHAVANI	30	29	30	28	29
18AT1A0535	BATHULA DHARANI	13	13	13	13	13
18AT1A0536	B. DHEERAJ	12	15	20	20	27
18AT1A0537	KALLA DINESH BABU	13	15	20	21	23
18AT1A0538	EDIGA DIVYA	21	21	21	24	24
18AT1A0539	K. DURGA AKANKSHA	16	17	24	25	19
18AT1A0540	MOLLA FARZAAN	29	28	29	28	30
18AT1A0541	SHAIK FEROOZ BEGUM	29	29	29	28	29
18AT1A0542	SANIYA FIRDOSE	29	28	27	27	29
18AT1A0543	P GANGADHAR REDDY	22	23	26	26	27
18AT1A0544	KURUVA MITTAKANDALA GEETHA LAKSHMI	23	23	22	25	22

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18AT1A0545	CHITRALA HARSHITHA	22	20	23	24	28
18AT1A0546	ILLURI HEMANTH GOUD	12	15	16	18	16
18AT1A0547	P HEMANTH PANKAJ RAM	18	18	18	18	24
18AT1A0548	CHATAKONDA HIMAVARSHINI	29	27	27	28	29
18AT1A0549	SHAIK IMRAN	11	14	17	16	17
18AT1A0550	SHAIK IMRAN	21	16	20	22	23
18AT1A0551	P. ISMAIL	24	24	28	22	24
18AT1A0552	P. JANAKI RAM VAMSHI	11	18	21	20	21
18AT1A0553	S JOSHI SULAKSHAN	16	21	19	22	21
18AT1A0554	O. JYOTHI SWARUPA	23	22	28	25	21
18AT1A0555	DAYALA JYOTHIRMAI	14	14	14	14	14
18AT1A0556	SANGATI JYOTHSNA	22	26	28	26	29
18AT1A0557	MOULVI KAIF AHMED	19	20	23	21	25
18AT1A0558	B. KEERTHANA	15	15	15	15	15
18AT1A0559	CHERUKURU KEERTHI	29	29	29	27	29
18AT1A0560	PINJARI KHALEEL	21	20	21	22	25
18AT1A0561	E LAHARI	30	27	30	27	30
18AT1A0562	YANUMALA LAHARI	22	20	25	25	28
18AT1A0563	D.LEENA GOYAL	17	15	15	23	22
18AT1A0565	SEPURI LOKESH KUMAR	28	25	25	28	28
18AT1A0566	SHAIK MAHAMMAD FAYAZ	27	24	24	24	28
18AT1A0567	CHITRALA MANISHA	29	24	24	25	28

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18AT1A0568	MEDAVARAM LAKSHMI RANGA MAYURA NITHYASRI	25	25	22	25	28
18AT1A0569	O MD ZUBAIR BASHA	25	19	24	25	29
18AT1A0570	K.Meghana	25	21	24	24	28
18AT1A0571	SHAIK MISBAH NUREIN	28	22	26	26	27
18AT1A0572	SHAIK MOHAMMAD IRSHAD	7	11	15	15	15
18AT1A0573	SHAIK MOHAMMAD RAFI	22	18	21	24	28
18AT1A0574	SHAIK MOHAMMED AFNAN AKIF	15	15	15	15	15
18AT1A0575	GOLLA MOUNIKA	29	24	30	28	28
18AT1A0576	KUMMARI MOUNIKA	21	24	26	24	27
18AT1A0577	MALASANI MOUNIKA	28	27	29	28	29
18AT1A0578	NARAHARI MOUNIKA	29	23	27	27	30
18AT1A0579	SHAIK MUJUBUR REHAMAN	26	24	28	27	28
18AT1A0580	SHAIK NAFEES	24	21	27	27	26
18AT1A0581	GATE NAGA VARSHITH	29	25	28	26	28
18AT1A0582	PULIVARTHI NAGAKAVYA	26	22	29	28	29
18AT1A0583	POTHURAJU NANDINI	21	24	21	25	27
18AT1A0585	KUMMARI NEELAKANTAM	17	23	20	26	28
18AT1A0586	RAJAPUTANA NEHA	26	26	28	27	28
18AT1A0588	MADAGAM NIHARIKA	24	22	29	25	27
18AT1A0589	SABOLU NIHARIKA	24	25	26	26	27

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18AT1A0590	PALLE NIKHILA	26	26	28	26	27
18AT1A0591	NITEESH SARI	11	11	16	15	15
18AT1A0592	S NITHIN VYAS U	11	15	15	16	15
18AT1A0593	C NITHISH KUMAR	8	11	16	15	15
18AT1A0594	CHRIS NOEL VOOLA	28	24	29	26	29
18AT1A0595	SHAIK OSMAN BASHA	21	21	21	24	25
18AT1A0596	B POOJITHA	26	20	24	27	28
18AT1A0597	GADDALE POOJITHA	26	23	27	22	27
18AT1A0598	POOJITHA U	27	21	22	27	27
18AT1A0599	PRADEEP KUMAR MUNIPATI	8	10	15	15	15
18AT1A05A0	P PRADEEP	29	25	28	27	29
18AT1A05A1	G PRANAI KUMAR	17	11	19	15	20
18AT1A05A2	Y PRASHANTHI	26	19	22	22	24
18AT1A05A3	KOTAMALIGA PRASHANTH RAJ	16	15	19	19	18
18AT1A05A4	PRATHYUSHA MUTHUKUR	27	24	27	26	27
18AT1A05A5	PESALA PREETHAM	13	11	20	19	23
18AT1A05A7	RACHANA REDDY METLA	28	21	28	26	27
18AT1A05A8	RAGA SREE KOTRA	20	21	26	24	27
18AT1A05A9	Gurreddy raga praneeth reddy	10	10	25	21	17
18AT1A05B0	REPALLE RAJU	15	8	16	15	16
18AT1A05B1	RAVINDRA GOUD EDIGA	16	15	23	26	23
18AT1A05B3	ROHINI A	24	23	30	26	26
18AT1A05B4	ROUSHNI TABASSUM SHAIK	24	23	28	27	29
18AT1A05B5	KUPPARAJU SAHITHI	18	25	27	26	29

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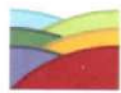
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18AT1A05B6	SAI CHARAN REDDY G	10	16	23	21	23
18AT1A05B7	SAI CHARITHA PASALA	26	21	28	28	29
18AT1A05B8	CHATRAPATHI SAI ISWARYA SINGH	22	22	26	24	25
18AT1A05B9	SAI SINDHUJA REDDY C	16	22	28	24	25
18AT1A05C0	PULLALACHERUVU SAI SOWJANYA	22	24	25	28	28
18AT1A05C1	NALIJENI SAI SRUTHI	30	25	29	28	29
18AT1A05C2	PANTA SAI TEJASWINI	26	26	28	28	29
18AT1A05C3	GITTA SATHVIK	9	15	21	16	19
18AT1A05C4	MANGALI SEVANANDU	18	21	27	22	28
18AT1A05C5	HEEBA SHABREEN	27	27	29	28	29
18AT1A05C6	BOYAPALLI SHANMUKHA PRIYA	28	27	29	26	28
18AT1A05C7	ANDAY SHANTHI PRIYA	23	22	23	25	28
18AT1A05C8	MANGALI SHIREESHA	18	23	24	26	27
18AT1A05C9	KAMMARI SHIVANI	29	22	28	27	29
18AT1A05D1	JAKKULA SIDDHARTH	20	17	20	26	25
18AT1A05D2	G.M SINDHU SREE	19	16	22	19	23
18AT1A05D3	AVULA SIREESHA	22	23	23	23	26
18AT1A05D5	KATHA SIVA SHANKAR REDDY	13	11	15	15	19
18AT1A05D6	KOYYA SNEHA LATHA	25	25	24	26	26
18AT1A05D7	SHAIK SOHAIL AHAMMED	12	14	16	16	20
18AT1A05D8	NAYAKANTI SONY PRIYA	19	23	20	23	22

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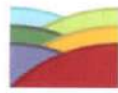
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18AT1A05E0	DHARANI POGU SOWMYA	21	25	29	26	27
18AT1A05E1	K SOWRABH	16	16	16	16	16
18AT1A05E2	SRAVANITHI P	30	29	30	28	29
18AT1A05E3	SRAVANTHI P	28	24	28	28	28
18AT1A05E4	K.E SRI HARSHA VARUN GOUD	16	16	23	21	21
18AT1A05E5	Y SRI VAMSI REDDY	14	11	16	20	24
18AT1A05E6	PEDDAKOTLA SRII CHANDANA	26	21	28	26	29
18AT1A05E7	P SRI KAVYA	19	22	28	26	25
18AT1A05E8	VADDIRALA SRINIDHI	15	15	15	15	15
18AT1A05F0	PATNAMU SUBBA TEJASWINI	29	29	29	28	30
18AT1A05F1	P SUBHASHINI	30	26	30	28	28
18AT1A05F2	TAMTAM SUNIL GOUD	14	14	14	14	14
18AT1A05F3	GADWALA SUPRIYA	22	21	26	25	27
18AT1A05F4	NARAHARI SUPRIYA	28	24	29	28	28
18AT1A05F5	K. SWETHA	19	22	26	25	25
18AT1A05F6	SWETHA	29	25	30	27	28
18AT1A05F7	B. TEJA ARUN	11	15	15	18	21
18AT1A05F8	AVULAPATI TEJASWINI	17	20	21	23	24
18AT1A05F9	DADI REDDY UDAY KIRAN REDDY	24	18	26	26	26
18AT1A05G0	VANDEVASI GURU UJWALA	26	25	28	27	27
18AT1A05G1	G. VAJRAVATHI	18	20	23	25	26
18AT1A05G2	S. VALI AHMED	7	15	10	15	18
18AT1A05G3	PELLURI VENKAT CHANDU	29	26	29	28	29

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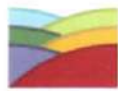
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18AT1A05G5	GUDURU VENKATA SAI MOUNIKA	26	26	27	27	27
18AT1A05G6	POTHIGANTI VENKATA SIVA SAI KUMAR	21	21	24	26	27
18AT1A05G7	THOTAKURI VIJAY KUMAR	15	17	24	23	22
18AT1A05G8	UPPARI VIKRAM	17	15	15	18	20
18AT1A05G9	KONDETI VINAY KUMAR	25	21	23	26	25
18AT1A05H0	M. VINEELA	9	11	19	19	18
18AT1A05H1	P. VINOD SAI KUMAR REDDY	22	15	15	20	21
18AT1A05H2	MUKKARA VISHWANATHA REDDY	22	23	27	27	28
18AT1A05H3	GORLA YASWANTH	11	17	18	16	21
18AT1A05H4	CHAGAPURAM YASWANTH REDDY	25	18	17	24	24
18AT1A05H5	BARIGELA YESHWANTH	6	12	9	19	15
18AT1A05H6	S. ZULFEQHAR AHMED	18	16	15	20	19
18AT1A05H7	MADUGUNDU VAMSHI KRISHNA	24	18	21	22	24
18AT1A05H8	BOYA LIKHITHA	25	25	22	28	29
18AT1A05H9	SYED IBRAHIM	7	10	11	15	9
19AT5A0501	SHAIK SALMAN BASHA	15	11	17	15	14
19AT5A0502	T.M ARAVIND	20	19	26	27	23
19AT5A0503	THALUPULA KARTIKEYA	18	16	22	19	24
19AT5A0504	GOUDAMPALLY BHANU PRAKASH REDDY	16	16	27	21	24

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2020-21 BATCH 3-1 Angular Failure Students List.

SNO	ROLL NUMBER	NAME OF THE STUDENT	Angular
			INT
1	18AT1A0505	K. AJAI KISHORE	10
2	18AT1A0506	B AJAY	13
3	18AT1A0511	DADEPOGU AMARNATH	11
4	18AT1A0512	TALARI AMULYA	15
5	18AT1A0514	Y ANGEL MAGNUS GWYNETH	11
6	18AT1A0515	K ANIL KUMAR	15
7	18AT1A0518	HUTASH ANURAG YERUKALA	12
8	18AT1A0520	MOHAMMED ARSHAD SAEED	13
9	18AT1A0522	S ASLAM BASHA	15
10	18AT1A0525	G. BHARGHAV	12
11	18AT1A0526	P BHARGAV	10
12	18AT1A0535	BATHULA DHARANI	13
13	18AT1A0536	B. DHEERAJ	12
14	18AT1A0537	KALLA DINESH BABU	13
15	18AT1A0546	ILLURI HEMANTH GOUD	12
16	18AT1A0549	SHAIK IMRAN	11
17	18AT1A0552	P. JANAKI RAM VAMSHI	11
18	18AT1A0555	DAYALA JYOTHIRMAI	14
19	18AT1A0558	B. KEERTHANA	15
20	18AT1A0574	SHAIK MOHAMMED AFNAN AKIF	15
21	18AT1A0591	NITEESH SARI	11
22	18AT1A0592	S NITHIN VYAS U	11
23	18AT1A05A5	PESALA PREETHAM	13
24	18AT1A05A9	GURREDDY RAGA PRANEETH REDDY	10

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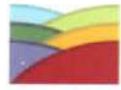
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25	18AT1A05B0	REPALLE RAJU	15
26	18AT1A05B6	SAI CHARAN REDDY G	10
27	18AT1A05D5	KATHA SIVA SHANKAR REDDY	13
28	18AT1A05D7	SHAIK SOHAIL AHAMMED	12
29	18AT1A05E5	Y SRI VAMSI REDDY	14
30	18AT1A05E8	VADDIRALA SRINIDHI	15
31	18AT1A05F2	TAMTAM SUNIL GOUD	14
32	18AT1A05F7	B. TEJA ARUN	11
33	18AT1A05G7	THOTAKURI VIJAY KUMAR	15
34	18AT1A05H3	GORLA YASWANTH	11
35	19AT5A0501	SHAIK SALMAN BASHA	15
36	18AT1A05F7	B. TEJA ARUN	11


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2020-21 BATCH 3-1 DM Failure Students List.

SNO	ROLL NUMBER	NAME OF THE STUDENT	DM
			INT
1	18AT1A0505	K. AJAI KISHORE	14
2	18AT1A0512	Talari Amulya	15
3	18AT1A0522	S ASLAM BASHA	15
4	18AT1A0535	BATHULA DHARANI	13
5	18AT1A0555	DAYALA JYOTHIRMAI	14
6	18AT1A0558	B. KEERTHANA	15
7	18AT1A0572	SHAIK MOHAMMAD IRSHAD	15
8	18AT1A0574	SHAIK MOHAMMED AFNAN AKIF	15
9	18AT1A0591	NITEESH SARI	15
10	18AT1A0593	C NITHISH KUMAR	15
11	18AT1A0599	PRADEEP KUMAR MUNIPATI	15
12	18AT1A05A1	G PRANAI KUMAR	15
13	18AT1A05B0	REPALLE RAJU	15
14	18AT1A05D5	KATHA SIVA SHANKAR REDDY	15
15	18AT1A05E8	VADDIRALA SRINIDHI	15
16	18AT1A05F2	TAMTAM SUNIL GOUD	14
17	18AT1A05G2	S. VALI AHMED	15
18	18AT1A05H9	SYED IBRAHIM	15
19	19AT5A0501	SHAIK SALMAN BASHA	15

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2020-21 BATCH 3-1 CN Failure Students List.

SNO	ROLL NUMBER	NAME OF THE STUDENT	CN
			INT
1	18AT1A0501	AMAIR KHAN	15
2	18AT1A0512	TALARI AMULYA	15
3	18AT1A0522	S ASLAM BASHA	15
4	18AT1A0535	BATHULA DHARANI	13
5	18AT1A0555	DAYALA JYOTHIRMAI	14
6	18AT1A0558	B. KEERTHANA	15
7	18AT1A0563	D.LEENA GOYAL	15
8	18AT1A0572	SHAIK MOHAMMAD IRSHAD	15
9	18AT1A0574	SHAIK MOHAMMED AFNAN AKIF	15
10	18AT1A0592	S NITHIN VYAS U	15
11	18AT1A0599	PRADEEP KUMAR MUNIPATI	15
12	18AT1A05D5	KATHA SIVA SHANKAR REDDY	15
13	18AT1A05E8	VADDIRALA SRINIDHI	15
14	18AT1A05F2	TAMTAM SUNIL GOUD	14
15	18AT1A05F7	B. TEJA ARUN	15
16	18AT1A05G2	S. VALI AHMED	10
17	18AT1A05G4	KAMATAM VENKATA ROHAN	15
18	18AT1A05G8	UPPARI VIKRAM	15
19	18AT1A05H1	P. VINOD SAI KUMAR REDDY	15
20	18AT1A05H6	S. ZULFEQHAR AHMED	15
21	18AT1A05H9	SYED IBRAHIM	11

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A1518 – COMPUTER NETWORKS

Date: 16-3-2021

Topics Covered: Introduction: network hardware, network software, reference models-OSI/TCP/IP. Physical Layer: Guided Transmission, Wireless Transmission.

List of absentees: 18AT1A05H9, 18AT1A05H6

M. Sri Lakshmi
Signature of the Faculty

Date: 19-3-2021

Topics Covered: Data Link Layer: design issues, error detection and correction, elementary data link protocol, sliding window protocols. Medium access sub layer: the channel allocation problem, multiple access protocols.

List of absentees: 18AT1A0599, 18AT1A05D5, 18AT1A05E8

M. Sri Lakshmi
Signature of the Faculty

Date: 24-3-2021

Topics Covered: Transport Layer: Transport services, elements of transport protocols TCP and UDP protocols, Congestion Control: Congestion control algorithms, The DNS name space.

List of absentees: 18AT1A05G8

M. Sri Lakshmi
Signature of the Faculty

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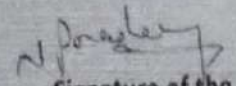
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A1519 – DATA MINING

Date:17-3-2021

Topics Covered: Data Mining: Fundamentals of data mining, data mining functionalities, classification of data mining systems. Data Pre Processing: Descriptive data summarization, data cleaning, data integration and transformation.

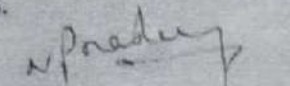
List of absentees: 18AT1A05G2, 18AT1A05B0, 18AT1A05F2
Faculty


Signature of the

Date:20-3-2021

Topics Covered: Mining Frequent Patterns, Associations and Correlations.

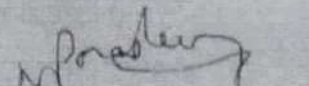
List of absentees: 18AT1A0599, 18AT1A05B0, 18AT1A05G2


Signature of the Faculty

Date:23-3-2021

Topics Covered: Classification and Prediction: Decision tree induction, various classification methods, Cluster Analysis: Types of data in cluster analysis.

List of absentees: 18AT1A05A1, 18AT1A05G2


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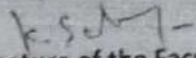
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A2505 –OBJECT ORIENTED PROGRAMMING THROUGH JAVA

Date: 6-8-2021

Topics Covered: evolution of java, object oriented programming, Data Types, Arrays, Variables and Operators- Control Statements- Selection statements, iteration statements, jump statements.

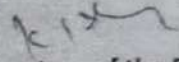
List of absentees: 20AT5A0511, 19AT1A05F5


Signature of the Faculty

Date: 13-8-2021

Topics Covered: Inheritance- Basics, using super, multi level hierarchy, method overriding, dynamic method dispatch, abstract class, final with inheritance, Packages and Interfaces- Packages, access protection.

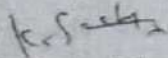
List of absentees: 19AT1A05H7, 20AT5A0511


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Date: 18-8-2021

Topics Covered: Multithreaded Programming: Thread model, main thread, creating thread, isalive() and join(), thread priorities, synchronization, interthread communication, suspending.

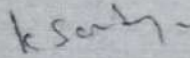
List of absentees: 19AT1A0503, 19AT1A0540


Signature of the Faculty

Date: 19-8-2021

Topics Covered: Collections Framework: Collection classes- ArrayList, LinkedList, HashSet, TreeSet, Using an Iterator and Spliterators.

List of absentees: 19AT1A0511 , 19AT1A0540


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DEPARTMENT OF CSE**

DATE: 13-8-2021

CIRCULAR

All the II B.Tech I-Sem students are hereby informed that remedial classes are being conducted in the department from 15-08-2021 from 3:50 PM to 5:30 PM. The students who have failed in external examinations conducted in May/June 2021 in the respective subjects are instructed to attend without fail.

DAY	SUBJECT	NAME OF THE FACULTY
FRIDAY	DISCRETE MATHEMATICS	MR. DR K. SREENIVASULU
SATURDAY	OBJECT ORIENTED PROGRAMMING THROUGH JAVA	Miss. SANDHYA
MONDAY	SOFTWARE ENGINEERING	MR. K. SESHADRI RAMANA

[Signature]
Head of the Department
Computer Science and Engineering
G. Pullaiah College of Engg & Tech
Pesupala (V), Nandikotkur Road,
Venkayapalli KURNOOL A P

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II B.TECH I SEM EXTERNAL MARKS (2020-21)

STUDENTROLLNO	DATA BASE MANAGEMENT SYSTEM A2506			DISCRETE MATHEMATICS A2508			ENVIRONMENT SCIENCE A2031			MANAGERIAL ECONOMICS & FINANCIAL ANALYSIS A2701			OBJECT ORIENTED PROGRAMMING THROUGH JAVA A2505			QUANTITATIVE APTITUDE AND REASONING - L A2016			SOFTWARE ENGINEERING A2507		
	G	P	Grade	G	P	Grade	G	P	credits	G	P	credits	G	P	credits	G	P	credits	G	P	credits
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19AT1A0502	C	7	E	4	D	6	0	D	6	3	D	6	4	D	6	1	F	0	0		
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19ATIA05B0	C	7	B	8	C	7	0	B	8	3	C	7	4	D	6	1	D	6	3
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19ATIA05D2	A	9	D	6	A	9	0	B	8	3	B	8	4	B	8	1	C	7	3


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19ATIA0522	A	9	D	6	A	9	0	B	8	3	C	7	4	D	6	1	C	7	3
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19ATIA0548	A	9	A	9	A	9	0	B	8	3	B	8	4	B	8	1	C	7	3
19ATIA0549	D	6	E	4	D	6	0	E	4	3	E	4	4	C	7	1	F	0	0
19ATIA0550	E	4	E	4	D	6	0	E	4	3	E	4	4	E	4	1	F	0	0
19ATIA0551	C	7	D	6	B	8	0	C	7	3	C	7	4	E	4	1	D	6	3
19ATIA0552	C	7	E	4	C	7	0	C	7	3	D	6	4	D	6	1	D	6	3
19ATIA0553	C	7	D	6	C	7	0	B	8	3	D	6	4	B	8	1	D	6	3
19ATIA0554	F	0	C	7	C	7	0	B	8	3	B	8	4	C	7	1	B	8	3
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19AT1A05D3	A	9	B	8	S	1	0	A	9	3	B	8	4	B	8	1	C	7	3
19AT1A05D4	C	7	D	6	A	9	0	C	7	3	E	4	4	C	7	1	D	6	3
19AT1A05D5	B	8	C	7	A	9	0	C	7	3	B	8	4	C	7	1	C	7	3
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19AT1A05G6	C	7	D	6	C	7	0	B	8	3	D	6	4	C	7	1	D	6	3
19AT1A05G7	C	7	E	4	C	7	0	C	7	3	A	9	4	D	6	1	D	6	3
19AT1A05G8	A	9	C	7	B	8	0	B	8	3	S	1	4	D	6	1	B	8	3

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19AT1A05G9	A	9	E	4	B	8	0	C	7	3	C	7	4	B	8	1	B	8	3
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19AT1A05H8	B	8	C	7	A	9	0	A	9	3	B	8	4	D	6	1	B	8	3
19AT1A05H9	C	7	F	0	B	8	0	D	6	3	F	0	0	B	8	1	F	0	0
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20AT5A0514	E	4	F	0	B	8	0	C	7	3	D	6	4	E	4	1	E	4	3

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DEPARTMENT OF CSE

LIST OF THE STUDENTS FAILED IN THE OOPS EXTERNAL EXAMINATIONS AY:2020-21

S. NO.	Roll No.	Name of the Student
1	19AT1A0503	SHAIK ABDUL SAMEER
2	19AT1A0509	MUDDUBHAI AQEEL HUSSAIN
3	19AT1A0528	SAMOZAI FAZAL MOHAMMED KHAN
4	19AT1A0531	PINJARI HABEEB
5	19AT1A0540	MULLA INTIAZ
6	19AT1A0547	ALA JAYASRI SAI
7	19AT1A0565	NAKKA MADHURA SWAPNA
8	19AT1A0578	PINJARI MOHAMMED RAFIQ
9	19AT1A0587	D NAZEER HUSSAIN
10	19at1a0588	CHITIVELI NEERAJ VARMA
11	19AT1A05A2	MOOLA PREMKUMAR REDDY
12	19AT1A05A3	K RAHUL
13	19AT1A05A4	BOYA RAJESH KUMAR
14	19AT1A05B4	BELLAPU SAI CHARAN
15	19AT1A05B9	YENAKANDLA SAI NIKHIL KRISHNA
16	19AT1A05C9	THANGADANCHA SARATHCHANDRA
17	19AT1A05D0	TALAPULA SATHWIK
18	19AT1A05F5	KURUVA SRIDHAR
19	19AT1A05F9	GAJJI SUDHEER
20	19AT1A05H7	P VENKATA KOUSHIK
21	19AT1A05H9	KALAVAKURI VENKATA SUSHANTH
22	19AT1A05I1	A VINAY
23	20AT5A0509	KOTA KESAVARAO
24	20AT5A0511	MANGALI ASHOK KUMAR

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LIST OF THE STUDENTS FAILED IN THE SE EXTERNAL EXAMINATIONS AY:2020--21

S. NO.	Roll No.	Name of the Student
1	19AT1A0502	SHAIK PAJINIGAR ABDUL MUQEED
2	19AT1A0503	SHAIK ABDUL SAMEER
3	19AT1A0519	SUNKARA CHAKRADHAR
4	19AT1A0521	UNDRALLA CHANDANA YADAV
5	19AT1A0549	PALASALA KANNA
6	19AT1A0550	PATEL KARUNA
7	19AT1A0556	SUGADASU LAKSHMI PRASANNA
8	19AT1A0578	PINJARI MOHAMMED RAFIQ
9	19AT1A05A3	K RAHUL
10	19AT1A05A6	MELIGERI THALARI RAMYAKRISHNA
11	19AT1A05B9	YENAKANDLA SAI NIKHIL KRISHNA
12	19AT1A05C4	GANDLA SAI SRUTHI
13	19AT1A05C9	THANGADANCHA SARATHCHANDRA
14	19AT1A05F5	KURUVA SRIDHAR
15	19AT1A05H3	MIDDE VAMSI KUMAR
16	19AT1A05H9	KALAVAKURI VENKATA SUSHANTH
17	19AT1A05I1	A Vinay
18	19AT1A05I7	SYED ZABIUDDIN MUDASSIR
19	20AT5A0502	ELLURU NITHIN
20	20AT5A0505	MANDAPALLI DINESH KUMAR
21	20AT5A0513	LOGALLA SHASHIVARDHAN

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DEPARTMENT OF CSE

LIST OF THE STUDENTS FAILED IN THE DM EXTERNAL EXAMINATIONS AY:2020-21

S. NO.	Roll No.	Name of the Student
1	19AT1A0513	PESHUMAM AWAIZ UL KAREEM
2	19AT1A0521	CHEVULA HARIBABU
3	19AT1A0531	PINJARI HABEEB
4	19AT1A0561	LINGAM VENKATA SAHITHI KEERTHANA
5	19AT1A0568	C MANASA
6	19AT1A0575	PUNUGUNTTA MEENAAKSHEE
7	19AT1A0588	CHITIVELI NEERAJ VARMA
8	19At1a05a1	MOOLA PREMKUMAR REDDY
9	19AT1A05A3	K RAHUL
10	19AT1A05C9	THANGADANCHA SARATHCHANDRA
11	19AT1A05D0	TALAPULA SATHWIK
12	19AT1A05F9	GAJJI SUDHEER
13	19AT1A05H7	P VENKATA KOUSHIK
14	19AT1A05H9	KALAVAKURI VENKATA SUSHANTH
15	19AT1A05I1	GAJJI VIJAY
16	19AT1A05I6	ANNALADAS YAMINI
17	19AT1A05I7	SYED ZABIUDDIN MUDASSIR
18	20AT5A0503	SHAIK SULEMAN
19	20AT5A0504	VADLA BHARAT KUMAR ACHARI
20	20AT5A0507	KAMURTHI NARESH
21	20AT5A0508	BHEEMANAPALLIRAJESH
22	20AT5A0511	MANGALI ASHOK KUMAR
23	20AT5A0513	LOGALLA SHASHIVARDHAN
24	20AT5A0514	KURUVA LAKSHMI PRASANNA

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A2507- SOFTWARE ENGINEERING

Date: 9-8-2021

Topics Covered Process Models: A generic process model, process assessment and improvement, prescriptive process models. Agile Development: What is agility, agility and the cost of change, agile process, extreme programming (XP), other agile process models: Adaptive Software Development (ASD).

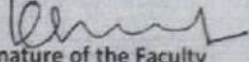
List of absentees: 19AT1A0517, 19AT1A0549


Signature of the Faculty

Date: 16-8-2021

Topics Covered: Requirements Modelling: Requirement analysis, scenario-based modeling, the design process, design concepts.

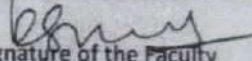
List of absentees: 19AT1A0550, 19AT1A0503, 20AT5A0505


Signature of the Faculty

Date: 17-8-2021

Topics Covered: Structured coding techniques, coding styles-standards, Strategic issues and test strategies for conventional software, Quality concepts, achieving software quality

List of absentees: 19AT1A0517, 19AT1A05A6


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A1554-ANGULAR JS

Date:18-3-2021

Topics Covered: Working with arrays, using the user item component, bootstrapping crash course, expanding our application, Typescript: Angular is built in typescript.

List of absentees: 18ATIA0518, 18ATIA0515, 18ATIA0512

K. S. Srinivas
Signature of the Faculty

Date:21-3-2021

Topics Covered: Directives and Forms: Built-in directives, forms in angular, form controls and form groups.

List of absentees: 18ATIA0506, 18ATIA0515, 18ATIA0522

K. S. Srinivas
Signature of the Faculty

Date:22-3-2021

Topics Covered: HTTP: Introduction, a basic request, writing a YouTube Search Component
Routing: Data Architecture in Angular: Data architecture, chat app overview.

List of absentees: 18ATIA05B6, 18ATIA05A5, 18ATIA05D5

K. S. Srinivas
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A2508- DISCRETE MATHEMATICS

Date: 7-8-2021

Topics Covered: Mathematical Logic : Statements and Notation, Well Formed Formulas, Tautologies, Equivalence of Formulas, Duality Law, Tautological Implications, Normal Forms, Predicates.

List of absentees: 19ATIA0561

Signature of the Faculty

Date: 8-8-2021

Topics Covered: Relations And Functions: Properties of binary Relations in a Set, Hasse Diagram, Functions, Composition of Functions.

List of absentees: 19ATIA0561, 19ATIA05C9

Signature of the Faculty

Date: 24-8-2021

Topics Covered: Algebraic Structures: Algebraic Systems, Simple Algebraic Systems and General Properties, Semi Groups and Monoids, Groups, Subgroups, Homomorphism, Isomorphism, Elementary

List of absentees: 19ATIA0531, 20AT5A0514, 20AT5A0508

Signature of the Faculty

Date: 25-8-2021

Topics Covered: Recurrence Relations: Generating Functions of Sequences, Calculating Coefficients of Generating functions, Recurrence Relations, Graph Theory: Basic Concepts, Representation of Graphs, Isomorphism and Sub graphs, Spanning Trees, Planar Graphs

List of absentees: 19ATIA0513, 20AT5A0511

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Code : A2507

R19

II B.TECH I Semester (R19) Regular Examinations March 2021

Time : 3 hours

SOFTWARE ENGINEERING

Max. Marks: 70

PART- A

(Compulsory Question)

Answer the following: (10 X 02 = 20 Marks)

1.

- a. Write the difference between system software and application software
- b. Write about team software process
- c. List all the requirement engineering tasks
- d. What is meant by requirement management
- e. What is usecase? Explain it
- f. What are interface design steps
- g. Define Testing and List out various types of testings
- h. Define the terms Verification and Validation
- i. Why quality is important while developing software
- j. What are various review techniques used to achieve quality software

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT-1

2 What is a Myth and Explain about software Myths

OR

3 a. Explain waterfall model

b. Write about incremental process model

UNIT-II

4 a. Write about agile process

b. Briefly explain about DSDM

OR

5 Explain about requirements elicitation

UNIT-III

6 Briefly explain about safehome home surveillance system

OR

7 Discuss about different architectural styles

UNIT-IV

8 Write about test strategies for conventional software

OR

9 Discuss about the art of debugging

UNIT-V

10 Briefly explain about software quality management

OR

11 Write about software quality assurance


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Code : A1505

R18

II B.Tech I Semester (R19) Supplementary Examinations March2021

OBJECT ORIENTED PROGRAMMING USING JAVA

Time : 3 hours

Max. Marks: 70

PART- A

(Compulsory Questions 02 * 10 = 20 Marks)

- 1 a Define JIT compiler.
- b List out any four buzzwords of Java Programming Language.
- c Demonstrate the usage of bitwise operators.
- d List out selection statements in java.
- e What do you mean by Constructor?
- f Write the usage of finally keyword in exception handling.
- g What are the two ways in which Thread can be created?
- h List out 4 character based streams in java.
- i List out any 4 important classes in Swing API.
- j Write constructors of JLabel.

PART- B

(Answer all the Questions 05 * 10 = 50 Marks)

UNIT-I

- 2 Explain the key attributes of Object Oriented Programming.

OR

- 3 What is an array? Discuss one dimensional and two dimensional arrays. Write a java program for declaring and initializing two dimensional arrays.

UNIT-II

- 4 Explain different types of operators used in Java.

OR

- 5 What are constructors and parameterized constructors? Explain in detail with example. Write a program for constructor to use 'this' keyword.

UNIT-III

- 6 a Explain different types of inheritance.
- b Define a package. How do create a package? Describe the access protection in packages.

OR

- 7 Write a java program to read input from the user. If the input is -ve number then program should raise a user defined exception.

UNIT-IV

- 8 Write a multithreaded program one thread prints the all even numbers from 1 to100 and another thread prints all odd numbers from 1 to100.

OR

- 9 a Describe file reading and writing operations with suitable example programs.


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b Define a thread. Explain the concept of multithreaded programming.

UNIT-V

10 Write a swing application to demonstrate event handling mechanism.

OR

11 Demonstrate the usage of JTextField, JLabel and JButton with an example program.



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DEPARTMENT OF CSE
Academic Year:2020-21

Subject: Operating System

UNIT-1

S No	QUESTIONS	Blooms Taxonomy Level	Course Outcomes
1	Define distributed systems.	Remember	CO 1
2	Distinguish between user mode and kernel mode operations of the operating System.	Understand	CO 1
3	Define kernel.	Remember	CO 1
4	Describe the use of fork () and exec () system calls.	Remember	CO 1
5	List any four types of system calls.	Understand	CO 1
6	Define multiprocessor system.	Remember	CO 1
7	List the advantages of multiprogramming.	Understand	CO 1
8	Distinguish between multiprogramming and multitasking.	Remember	CO 1
9	Define interrupt.	Remember	CO 1
10	Define virtual machine.	Understand	CO 1
11	Define real-time operating system.	Understand	CO 1

S No	QUESTION S(Essay)	Blooms Taxonomy Level	Course Outcomes
1	How does the distinction between kernel mode and user mode function as a rudimentary form of protection (security) system. Justify.	Understand	CO 1
2	Explain using a simple system call as an example (e.g. getpid, or uptime), what is generally involved in	Understand	CO 1

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	providing the result, from the point of calling the function in the C library to the point where that function returns.		
3	In a multiprogramming and time-sharing environment, several users share the system simultaneously. This situation can result in various security problems. Explain two such problems. Can we ensure the same degree of security in a time-shared machine as we have in a dedicated machine. Explain your answer.	Understand	CO 1
4	Explain why must the operating system be more careful when accessing input to a system call (or producing the result) when the data is in memory instead of registers.	Understand	CO 1
5	Discuss how a multi-threaded application can be supported by a user-level threads package. It may be helpful to consider (and draw) the components of such a package, and the function they perform.	Understand	CO 1
6	Explain why do you think that idleness in CPU occurs.	Understand	CO 1
7	Explain Is OS is a resource manager. If so justify your answer	Understand	CO 1
8	Explain the difference between interrupt and exception.	Understand	CO 1
9	Differentiate between tightly coupled systems and loosely coupled systems.	Understand	CO 1
10	Explain If you run the same program twice, what section would be shared in the memory.	Understand	CO 1

PROCESS AND CPU SCHEDULING, PROCESS COORDINATION

1	Define process. What is the information maintained in a PCB.	Remember	CO 2
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2	Define process state and mention the various states of a process.	Remember	CO 2
3	Describe context switching.	Remember	CO 2
4	Distinguish between user threads and kernel threads.	Understand	CO 2
5	Distinguish between thread with process.	Understand	CO 2
6	Explain benefits of multithreaded programming.	Remember	CO 2
7	Distinguish between preemptive and non-preemptive scheduling techniques.	Understand	CO 2
8	State critical section problem.	Understand	CO 2
9	Define CPU scheduling.	Understand	CO 2
10	List the various scheduling criteria for CPU scheduling.	Remember	CO 2
11	State the assumption behind the bounded buffer producer consumer problem.	Understand	CO 2
12	Define turnaround time.	Remember	CO 2
13	List different types of scheduling algorithms.	Understand	CO 2
14	Explain different ways in which a thread can be cancelled.	Remember	CO 2
15	State the requirements that a solution to the critical section problem must satisfy.	Understand	CO 2
16	Define race condition.	Understand	CO 2
17	Define semaphores. Mention its importance in operating system.	Remember	CO 2
18	Explain the use of job queues, ready queues and device queues.	Remember	CO 2
19	Explain bounded waiting in critical region.	Understand	CO 2
20	Distinguish between semaphore and binary semaphore.	Remember	CO 2
21	State the factors on which the performance of the Round Robin CPU scheduling algorithm depends.	Remember	CO 2

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22	Describe entry and exit sections of a critical section.	Understand	CO 2
23	State the real difficulty with the implementation of the SJF CPU scheduling algorithm.	Remember	CO 2
24	Define monitor.	Remember	CO 2
25	Name the algorithms used for foreground and background queue scheduling in a multilevel queue-scheduling algorithm.	Understand	CO 2
26	State two hardware instructions and their definitions which can be used for implementing mutual exclusion.	Remember	CO 2

1	Explain the reasons for process termination.	Understand	CO 2
2	Discuss the following process, program, process state, process control block, and process scheduling.	Understand	CO 2
3	Explain the infinite buffer producer/consumer problem for concurrent processing which uses binary semaphores.	Understand	CO 2
4	Discuss the attributes of the process. Describe the typical elements of process control block.	Remember	CO 2
5	Explain the principles of concurrency and the execution of concurrent processes with a simple example.	Understand	CO 2
6	Describe dining-philosophers problem. Devise an algorithm to solve the problem using semaphores.	Understand	CO 2
7	Explain the Readers and Writers problem and its solution using the concept of semaphores.	Understand	CO 2
8	Define monitor. Distinguish between monitor and semaphore. Explain in detail a monitor with notify and broadcast functions using an example.	Remember	CO 2

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9	List out the various process states and briefly explain the same with a state diagram.	Understand	CO 2
10	<p>a) Describe process scheduling. Explain the various levels of scheduling.</p> <p>b) Distinguish pre-emptive and non-pre-emptive scheduling algorithms.</p>	Understand	CO 2
11	<p>Discuss about following.</p> <p>a) Process</p> <p>b) Components of process</p> <p>c) Program versus process</p> <p>d) Process states</p>	Remember	CO 2
12	<p>Discuss the following.</p> <p>a) CPU-I/O burst cycle</p> <p>b) CPU schedule</p> <p>c) Pre-emptive and non-preemptive scheduling</p> <p>d) Dispatcher</p>	Understand	CO 2
13	<p>Explain the concept of multi-threading. Discuss the following multi-threading models.</p> <p>a) Many-to-one</p> <p>b) One-to-one</p> <p>c) Many-to-many</p> <p>d) Two-level</p>	Remember	CO 2
14	Explain the issues that may rise in multi-threading programming. Discuss about each in detail.	Remember	CO 2
15	<p>Discuss the following CPU scheduling algorithms</p> <p>a) Round robin</p> <p>b) Multilevel- queue scheduling</p> <p>c) Multi-level feedback queue scheduling</p>	Understand	CO 2

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16	A scheduling mechanism should consider various scheduling criteria to realize the scheduling objectives. List out all the criteria.	Understand	CO 2
17	Define semaphore. Explain the method of application of semaphore for process synchronization.	Remember	CO 2
18	Explain the process state transition diagram with examples.	Remember	CO 2
19	Explain the uses of the following: a. Mutex object b. Semaphore object c. Wait able timer object	Understand	CO 2
20	Write short notes about the following: a. Binary Semaphores b. Bounded Waiting	Remember	CO 2

UNIT-III:

1	Explain the main function of the memory-management unit.	Remember	CO 3
2	Distinguish between logical address and physical address.	Remember	CO 3
3	Describe dynamic loading and dynamic linking.	Remember	CO 3
4	Distinguish between compile time, load time and execution time address binding.	Remember	CO 3
5	Define swapping.	Remember	CO 3
6	List dynamic storage allocation strategies in contiguous memory allocation scheme.	Understand	CO 3
7	Distinguish between MFT and MVT.	Understand	CO 3
8	Distinguish between internal and external fragmentation.	Understand	CO 3
9	Define compaction.	Understand	CO 3
10	List and define non-contiguous memory allocation schemes.	Remember	CO 3
11	Distinguish between paging and segmentation.	Remember	CO 3


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12	State the purpose of TLB.	Understand	CO 3
13	Explain the calculation of effective access time of a demand-paged memory system.	Understand	CO 3
14	Distinguish between page table and inverted page table.	Understand	CO 3
15	State the benefits of a virtual memory system.	Remember	CO 3
16	Distinguish between demand paging and pure demand paging.	Remember	CO 3
17	Distinguish between local and global page replacement strategies.	Understand	CO 3
18	Explain page fault and its effect on the performance of the demand paged memory system.	Understand	CO 3
19	Explain the need for page-replacement.	Remember	CO 3
20	List various page replacement algorithms.	Remember	CO 3
21	Explain the basic approach of page replacement.	Understand	CO 3
22	Distinguish between equal and proportional frame allocation strategies.	Remember	CO 3
23	Explain the concept of thrashing and why thrashing should be avoided in a system.	Remember	CO 3
Essay Questions			
1	Describe the following. a) Virtual Memory b) Cache Memory c) Auxiliary Memory	Understand	CO 3
2	Explain in detail the requirements that memory management technique needs to satisfy.	Understand	CO 3
3	Describe a) Paging	Understand	CO 3

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	b) Page table structure c) Translation look-aside buffer d) Segmentation		
4	Explain why the “principle of locality” is crucial to the use of virtual memory. What is accomplished by page buffering.	Understand	CO 3
5	Discuss briefly the swapping concept with necessary examples.	Understand	CO 3
6	Describe contiguous memory allocation concept with advantages and disadvantages.	Remember	CO 3
7	Differentiate the main memory organization schemes of contiguous- memory allocation, segmentation, and paging with respect to the following	Remember	CO 3
8	Differentiate between internal and external fragmentation and Which one occurs in paging scheme.	Understand	CO 3
9	Explain briefly about paging with neat diagram.	Understand	CO 3
10	Describe the following a) Hierarchical paging b) Inverted page Tables	Remember	CO 3
11	Draw and explain the working procedure of paging hardware in detail.	Understand	CO 3
1	Explain the basic concepts of segmentation with neat diagrams.	Understand	CO 3
2	Define page fault. When does a page fault occur. Describe the action taken by OS when page fault occurs.	Understand	CO 3
3	State and explain about virtual memory concept with neat diagram.	Understand	CO 3
4	Differentiate between paging and segmentation.	Remember	CO 3

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5	Explain briefly the performance of demand paging with necessary examples.	Understand	CO 3
6	Explain the basic Scheme of page replacement and about the various page replacement strategies with examples.	Remember	CO 3
7	Define the Readers and Writers problem and its solution using the concept of semaphores.	Remember	CO 3
8	Explain the uses of the following: a. Mutex object b. Semaphore object c. Waitable timer object	Understand	CO 3
9	Write short notes about the following: a. Binary Semaphores b. Bounded Waiting	Remember	CO 3
10	Explain the Readers and Writers problem and its solution using the concept of semaphores.	Remember	CO 3
11	Explain the basic concepts of segmentation with neat diagrams.	Remember	CO 3

UNIT-IV:

FILE SYSTEM INTERFACE, MASS-STORAGE STRUCTURE

1	Define the terms – file, file path, directory.	Remember	CO 4
2	Explain any four common file attributes.	Remember	CO 4
3	Explain any four file operations.	Remember	CO 4
4	Distinguish between shared and exclusive lock.	Understand	CO 4
5	Explain the allocation methods of a disk space.	Remember	CO 4
6	Explain the bit vector method free space management on	Understand	CO 4

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	disk.		
7	List the different file accessing methods.	Understand	CO 4
8	Explain the operations that can be performed on a directory.	Remember	CO 4
9	Discuss the most common schemes for defining the logical structure of a directory.	Understand	CO 4
10	Describe UFD and MFD..	Remember	CO 4
11	Describe file system mounting.	Remember	CO 4
12	Write the format of a typical file-control block.	Understand	CO 4
13	List the different disk-space allocation methods.	Understand	CO 4
14	List the various layers of a file system.	Understand	CO 4
15	Explain the functions of virtual file system (VFS).	Understand	CO 4
16	Describe about different types of disk scheduling.	Understand	CO 4
17	Define the terms with respect to disk I/O - seek time, latency time.	Remember	CO 4
18	List any four common file types and their extensions.	Remember	CO 4
19	Describe about logical formatting of the disk.	Understand	CO 4
20	State the advantages of indexed disk-space allocation strategy.	Remember	CO 4
21	List the different free disk-space management techniques.	Understand	CO 4
22	Explain the information associated with an open file.	Understand	CO 4
23	Discuss the advantages of contiguous memory allocation of disk space.	Remember	CO 4
24	Discuss the drawbacks of contiguous allocation of disk space.	Understand	CO 4
25	List any four secondary storage memory devices.	Remember	CO 4
26	State the advantages of linked disk-space allocation strategy.	Understand	CO 4


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27	List various disk-scheduling algorithms.	Understand	CO 4
28	State the purpose of boot block.	Remember	CO 4

Essay :

1	a) Discuss the criteria for choosing a file organization. b) Describe indexed file and indexed sequential file organization.	Understand	CO 4
2	Describe the file system of UNIX.	Understand	CO 4
3	List the common file types along with their extensions and describe each file type.	Understand	CO 4
4	Differentiate among the following disk scheduling algorithms. a) FCFS b) SSTF c) SCAN d) C-SCAN e) LOOK f) C-LOOK	Understand	CO 4
5	a) Define magnetic disk structure and its management. b) Exemplify swap space management.	Remember	CO 4
6	Explain the following in detail with respect to disk. a) Seek time b) Latency c) Access time d) Transfer time	Remember	CO 4
7	a) Explain in detail the interrupts and interrupt handling features. b) Explain with neat diagram the steps in DMA transfer.	Understand	CO 4

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8	a) Define the N-step SCAN policy for disk scheduling. b) Explain how double buffering improves the performance than a single buffer for I/O.	Remember	CO 4
9	a) Explain the techniques used for performing I/O. b) Give an example of an application in which data in a file should be accessed in the following order: i. sequential ii. Random	Remember	CO 4
10	Explain the concept and techniques of free space management.	Remember	CO 4
11	Define how disk caching can improve disk performance.	Understand	CO 4
12	Explain low-level formatting or physical formatting.	Remember	CO 4
13	Define buffering, caching and spooling.	Understand	CO 4
14	Discuss the following a) File system mounting b) Thrashing	Understand	CO 4
15	Explain the following file concepts: a) File attributes b) File operations c) File types d) Internal file structure	Remember	CO 4
16	Explain the concept of file sharing. What are the criteria to be followed in systems which implement file sharing.	Understand	CO 4
17	Describe the following Directory Implementation methods. a) Linear List b) Hash Table	Remember	CO 4

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18	Discuss in detail the performance issues of secondary storagemanagement.	Understand	CO 4
19	Discuss about a) Disk space management b) Swap –space management	Remember	CO 4

UNIT-V

1	Define Deadlock	Remember	CO 5
2	Define resource. List some resources that a process might need for itsexecution.	Understand	CO 5
3	List the four data structures (matrices) that must be maintained toimplement banker’s algorithm.	Remember	CO 5
4	Describe the conditions under which a deadlock situation may arise.	Remember	CO 5
5	Explain safe state and unsafe state.	Remember	CO 5
6	Describe the representation of a resource-allocation graph.	Remember	CO 5
7	Distinguish between deadlock avoidance and prevention strategies.	Remember	CO 5
8	Define the purpose of banker’s algorithm.	Remember	CO 5
9	Explain the sequence in which a process may utilize the resources innormal mode of operation.	Remember	CO 5
10	Describe the techniques for recovery from deadlock.	Remember	CO 5
11	List the goals of protection.	Remember	CO 5
12	Describe any one language-based protection schemes.	Remember	CO 5
13	Write the format of an access matrix.	Understand	CO 5
14	List the implementation techniques of access matrix.	Remember	CO 5
15	Describe role-based access control.	Understand	CO 5
16	List the schemes that implement revocation of capabilities.	Remember	CO 5

17	List any two example systems that implement capability-based protection.	Understand	CO 5
18	Define the terms – object, domain, access right.	Remember	CO 5
19	Write the main differences between capability lists and access lists.	Understand	CO 5
20	State the protection problems that may arise if a shared stack is used for parameter passing.	Remember	CO 5
21	State principle of least privilege.	Understand	CO 5


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DEPARTMENT OF CSE
Academic Year:2020-21
Subject: Computer Networks

UNIT - I			
PART - A			
Sl. No.	Question	Blooms Taxonomy Level	Course Learning Outcomes
1.	State two disadvantages of twisted pair cables.	Remember	CO 1
2.	Define packet switching?	Remember	CO 1
3.	Define Data rate?	Understand	CO 1
4.	List two advantages and two disadvantages of bus topology in network.	Understand	CO 1
5.	State Nyquist Bit Rate?	Remember	CO 1
6.	List two advantages of layering principle in computer networks?	Understand	CO 1
7.	Explain the role of ARPANET in computer networks?	Remember	CO 1
8.	Distinguish between baseband transmission and broadband transmission?	Understand	CO 1
9.	Define network.	Remember	CO 1
10.	List different types of networks?	Understand	CO 1
11.	Discuss why are protocols needed?	Understand	CO 1
12.	Discuss two points to improve the performance of network?	Understand	CO 1
13.	What is meant by topology? Name some popular topologies?	Remember	CO 1
14.	Define switching?	Remember	CO 1
15.	Describe Why are standards needed?	Understand	CO 1

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16.	Write the importance about MAN?	Understand	CO 1
17.	Describe the Noise?	Understand	CO 1
18.	Write a short note on WAN?	Understand	CO 1
19.	List the Transmission Impairments?	Remember	CO 1
20.	Discuss on Distortion?	Understand	CO 1
21.	Discuss on internet history?	Remember	CO 1
22.	List the types of the Transmission mediums?	Remember	CO 1
23.	Give the importance of LAN?	Understand	CO 1

PART -B (LONG ANSWER QUESTIONS)			
1.	Describe TCP/IP Model? Explain the functions and protocols and services of each layer? Compare it with OSI Model.	Remember	CO 1
2.	Distinguish the OSI and TCP/IP Reference Models	Understand	CO 1
3.	Define computer networks? Describe various types of networks topologies in computer network. Also discuss various advantages and disadvantages of each topology.	Remember	CO 1
4.	Define switching? Explain circuit switching?	Understand	CO 1
5.	Give a detailed note on three types of transmission impairment?	Remember	CO 1
6.	Distinguish between baseband transmission and broadband transmission?	Understand	CO 1
7.	Define switching? Explain packet switching?	Understand	CO 1

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8.	With a neat sketch explain ISO/OSI reference model?	Understand	CO 1
9.	Define topology and explain the various topologies of the network?	Remember	CO 1
10.	Discuss and compare various types of networks.	Understand	CO 1
11.	List out and explain are the applications of Computer Networks?	Understand	CO 1
12.	Define OSI Model? Explain the functions and protocols and services of each layer?	Understand	CO 1
13.	Explain the following:- a) LAN b) MAN c) WAN d) ARPANET	Understand	CO 1
14.	Explain how are OSI and ISO related to each other?	Remember	CO 1
15.	Illustrate some of the factors that determine whether a unification system is a LAN or WAN?	Understand	CO 1
16.	Calculate the maximum bit rate? Consider a noiseless channel with a bandwidth of 3000 Hz transmitting a signal with two signal levels.	Remember	CO 1
17.	Explain Shannon Capacity with example	Understand	CO 1
18.	Explain Nyquist Bit Rate with example?	Understand	CO 1
19.	Define Bit Rate and explain factors effects the bit rate?	Understand	CO 1
UNIT – II			
PART - A			
1.	What is redundancy?	Understand	CO 2
2.	What is vulnerable period?	Understand	CO 2
3.	List three categories of multiple access protocols?	Remember	CO 2

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4.	Define CSMA and CDMA?	Understand	CO 2
5.	List out the available error detection methods.	Remember	CO 2
6.	What is an exponential back off?	Understand	CO 2
7.	What are the responsibilities of data link layer?	Remember	CO 2
8.	Mention the types of errors.	Understand	CO 2
9.	Define bridge?	Remember	CO 2
10.	Write a short note on Hub?	Understand	CO 2
11.	Describe the functionalities of router?	Remember	CO 2
12.	Define ALOHA?	Understand	CO 2
13.	Describe checksum?	Remember	CO 2
14.	What is HDLC?	Understand	CO 2
15.	Give a note on VLAN?	Remember	CO 2
16.	Write short notes on CRC generator	Understand	CO 2
17.	How performance is improved in CSMA/CD protocol compared to CSMA protocol?	Understand	CO 2
18.	Give data transfer modes of HDLC?	Understand	CO 2
19.	What is vulnerable time?	Remember	CO 2
20.	Distinguish between FDMA and TDMA?	Understand	CO 2
21.	Write short notes on CRC.	Remember	CO 2
22.	What are the steps followed in checksum generator?	Understand	CO 2
23.	Define parameter 'a'. How does it affect the performance of the CSMA?	Remember	CO 2
PART -B (LONG ANSWER QUESTIONS)			
1.	Compare and contrast Go back N and selective Repeat	Understand	CO 2
2.	List and briefly discuss the two different basic transmission technologies.	Remember	CO 2
3.	How many types of frames HDLC uses? Explain briefly?	Remember	CO 2

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4.	What is pure ALOHA and slotted ALOHA? Consider the delay of both at low load. Which one is less? Explain your answer.	Understand	CO 2
5.	Explain the working of carrier sense multiple access protocol?	Remember	CO 2
6.	Describe the back-off time of PURE ALOHA protocol?	Understand	CO 2
7.	Explain in details the types of bridges.	Remember	CO 2
8.	State and explain the functions of MAC.	Remember	CO 2
9.	How performance is improved in CSMA/CD protocol compared to CSMA protocol? Explain.	Understand	CO 2
10.	How CSMA/CA differs from CSMA/CD. Explain in brief?	Remember	CO 2
11.	What is the purpose of the timer at the sender site in systems using	Understand	CO 2
12.	Explain Error Control & Flow Control.	Remember	CO 2
13.	Why collision is an issue in a random access protocol but not in controlled access or channelizing protocols?	Understand	CO 2
14.	Compare and contrast a controlled access protocol with a channelizing protocol.	Remember	CO 2
15.	Do we need a multiple access protocol when we use the local loop of the telephone company to access the internet? Explain.	Understand	CO 2

UNIT – III

PART - A

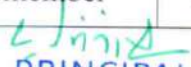
1.	State quality of service.	Remember	CO 3
2.	List the classifications of the adaptive algorithms.	Understand	CO 3
3.	List the classifications of the non-adaptive algorithms.	Remember	CO 3
4.	Write the keys for understanding the distance vector routing.	Understand	CO 3
5.	Define Flooding.	Remember	CO 3
6.	What is meant by routing algorithm?	Remember	CO 3
7.	Give a note on optimality principle.	Understand	CO 3


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8.	Define Adaptive routing algorithms.	Remember	CO 3
9.	Define Non-Adaptive routing algorithms.	Understand	CO 3
10.	What is congestion control?	Remember	CO 3
11.	Define Traffic shaping.	Understand	CO 3
12.	State on Leaky bucket algorithm.	Remember	CO 3
13.	Define Load shedding.	Understand	CO 3
14.	What are the design issues of network layer?	Remember	CO 3
15.	List network support layers and the user support layers.	Remember	CO 3
16.	State store and forward.	Understand	CO 3
17.	Give a note on shortest path.	Remember	CO 3
18.	Write the keys for understanding the link state routing.	Understand	CO 3
19.	List the requirements of the routing algorithms.	Remember	CO 3
20.	List the three variant s of the internetworking.	Understand	CO 3
1.	Define virtual circuit.	Remember	CO 3
2.	List out responsibilities of network layer.	Remember	CO 3
3.	Define datagram`s.	Remember	CO 3
4.	How broadcast and multicast address is represented in IP addressing scheme?	Understand	CO 3
5.	Differentiate between Datagram and datagram networks.	Understand	CO 3
6.	List the messages types of ICMP.	Understand	CO 3
7.	Define BGP.	Remember	CO 3
8.	Define IPv4.	Understand	CO 3
9.	List out functions of IP.	Understand	CO 3
10.	Define ICMP.	Remember	CO 3
11.	State on IPv6.	Remember	CO 3
12.	What is subnet mask?	Remember	CO 3


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13.	List the features of the IPv6 Protocol.	Understand	CO 3
14.	Differentiate between virtual circuit and virtual circuit networks.	Remember	CO 3
15.	List the two parts of OSPF Protocol.	Remember	CO 3
16.	List the payload type's messages of OSPF.	Understand	CO 3
PART -B (LONG ANSWER QUESTIONS)			
1.	How the routers get the information about neighbor?	Remember	CO 3
2.	How the packet cost referred in distance vector and link state routing?	Understand	CO 3
3.	Describe the Routing Information protocol and Distance vector routing protocol?	Understand	CO 3
4.	Explain Leaky bucket algorithm?		CO 3
5.	Describe the Traffic Shaping?		CO 3
6.	Explain in detail about non-adaptive algorithms?	Understand	CO 3
7.	Describe the Flooding algorithms?	Remember	CO 3
8.	List the fields of an IPv4 datagram header that participate in fragmentation and reassembly.	Remember	CO 3
9.	Explain the link state routing algorithm with an example?	Understand	CO 3
10.	State the major difference between Distance Vector Routing and Link state routing. Discuss	Remember	CO 3
11.	Describe the various congestion control mechanism in detail.	Understand	CO 3
1.	Explain Internet Protocol with the neat block diagram of IP header format.	Understand	CO 3
2.	List and explain the features of the IPv6 Protocol.	Understand	CO 3
3.	Explain the IP packet format with neat diagram.	Understand	CO 3
4.	Describe the IPv6 packet format.	Remember	CO 3
5.	Explain the datagram delivery and forwarding in internet	Understand	CO 3


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	protocol.		
6.	Find the class of each IP address. Give suitable explanation. i) 227.12.14.87 ii) 193.14.56.22 iii) 14.23.120.8 iv) 252.5.15.111 v) 134.11.78.56 vi) 172.18.58.1	Understand	CO 3
7.	Explain ICMPv6 protocol.	Remember	CO 3
8.	Explain about Internet Control Message Protocol.	Understand	CO 3
9.	Define BGP Protocol. Describe its routing functionality in detail.	Remember	CO 3
10.	Explain IP addressing method.	Understand	CO 3
11.	Describe two groups of multicast routing protocols.	Understand	CO 3
UNIT – IV			
PART - A			
1.	List out functions of transport layer.	Remember	CO 4
2.	Define Multi-protocol router.	Understand	CO 4
3.	List out duties of the transport layer.	Remember	CO 4
4.	Define role of TCP in networks.	Remember	CO 4
5.	Differentiate between network layer delivery and the transport layer delivery.	Understand	CO 4
6.	What are the different fields in pseudo header?	Remember	CO 4
7.	Define quality of service.	Remember	CO 4
8.	What is the main idea of UDP?	Understand	CO 4
9.	List the timers used by TCP.	Remember	CO 4
10.	How an application process running in one host is addressed by another process through TCP?	Understand	CO 4
11.	Describe datagram format of UDP.	Understand	CO 4
12.	What is traffic shaping?	Remember	CO 4

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13.	State two protocols available at transport layer.	Remember	CO 4
14.	List out various congestion avoidance techniques.	Remember	CO 4
15.	Distinguish between contention and congestion.	Understand	CO 4
16.	Define tunneling.	Remember	CO 4
17.	State the four major aspects of reliable delivery at the transport layer.	Remember	CO 4
18.	How check sum is calculated in TCP?	Understand	CO 4
19.	What is CODE BITS in TCP header?	Understand	CO 4
20.	State the use of SYN and FIN bits in TCP.	Remember	CO 4
21.	What is the difference between TCP?	Remember	CO 4
22.	Draw UDP header format.	Remember	CO 4
23.	Write a short note on transport layer services.	Understand	CO 4
24.	What is congestion? How to control congestion?	Understand	CO 4
25.	Define multiplexing.	Remember	CO 4
26.	How connection establishment is acquiring?	Understand	CO 4
27.	How to release a connection from the network?	Remember	CO 4
28.	Draw UDP header format.	Remember	CO 4
PART -B (LONG ANSWER QUESTIONS)			
1.	Explain the real transport protocol of UDP and how will you calculate checksum in UDP.	Remember	CO 4
2.	Draw neatly the TCP segment format and describe each of it.	Understand	CO 4
3.	List out the network performance characteristics.	Remember	CO 4
4.	Describe the adaptive retransmission policy in detail.	Understand	CO 4
5.	Explain the TCP connection establishment and termination using timeline diagram?	Remember	CO 4
6.	Describe the three way handshake protocol to establish the transport level connection.	Remember	CO 4

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7.	Draw TCP state transition diagram and describe each of it.	Understand	CO 4
8.	Give a detailed note on connection establishment.	Remember	CO 4
9.	Discuss about the TCP sliding window algorithm for flow control.	Understand	CO 4
10.	Write congestion control algorithms and describe how it works.	Remember	CO 4
11.	Explain leaky bucket and token bucket algorithm.	Understand	CO 4
12.	Distinguish UDP & TCP with suitable example.	Remember	CO 4
13.	Describe congestion avoidance techniques in detail.	Understand	CO 4
14.	List major types of networks and give brief note on each of it.	Remember	CO 4
15.	Illustrate data units at different layers of the TCP / IP protocol suite.	Remember	CO 4

UNIT – V

PART - A

1.	Define Internet Transport Protocols.	Understand	CO 5
2.	What is the purpose of Domain Name System?	Remember	CO 5
3.	State advantages of stateless server of HTTP.	Remember	CO 5
4.	Define message Formatting.	Remember	CO 5
5.	Discuss the three main division of the domain name space.	Remember	CO 5
6.	Differentiate between FTP & HTTP.	Understand	CO 5
7.	Discuss the basic model of FTP.	Understand	CO 5
8.	Describe the need of Uniform Resource Locator in WWW.	Understand	CO 5
9.	List two applications of Application Layer?	Remember	CO 5
10.	What is DNS Name Space?	Understand	CO 5
11.	List the advantages of Email.	Remember	CO 5
12.	Define SNMP.	Remember	CO 5
13.	Describe the concept of Telnet.	Understand	CO 5
14.	Define FTP.	Remember	CO 5

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15.	Give a note on MIME.	Understand	CO 5
16.	Illustrate the use of MIME Extension.	Remember	CO 5
17.	Give a brief history of WWW?	Understand	CO 5
18.	Define Lossy Compression and Lossless Compression?	Remember	CO 5
PART -B (LONG ANSWER QUESTIONS)			
1.	What are the duties of FTP protocol?	Remember	CO 5
2.	Define two methods of HTTP.	Remember	CO 5
3.	Define Big-endian format and little-endian format.	Remember	CO 5
4.	Describe the role of the local name server and the authoritative name server in DNS.	Understand	CO 5
5.	Define Domain Name Service (DNS) and explain in detail about the domain hierarchy and name servers?	Remember	CO 5
6.	Explain in detail about the working principles of Simple Network Management Protocol (SNMP).	Understand	CO 5
7.	What is HTTP protocol used for? What is the default port number of HTTP protocol?	Understand	CO 5
8.	Describe in detail about the World Wide Web.	Understand	CO 5
9.	Explain the working principle of FTP in detail with neat diagram.	Understand	CO 5
10.	Differentiate between ARP and RARP.	Understand	CO 5
11.	Explain the specific purposes of the DNS, HTTP application layer protocols.	Understand	CO 5
12.	Compare and contrast client/server with peer-to-peer data transfer over networks.	Understand	CO 5


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DEPARTMENT OF CSE
Academic Year:2020-21

Assignment-1			
COURSE CODE:		COURSE NAME: OPERATING SYSTEMS	
YEAR & SEMESTER		UNIT NO :3	
SNO	QUESTION	CO	COGNITITVE LEVEL
SHORT ANSWER QUESTIONS			
1	Explain real time system	CO 1	Understand
2	Discuss multiprocessing system	CO 2	Remember
3	Discuss process scheduling	CO 3	Remember
4	Discuss Peterson's solution	CO 4	Understand
LONG ANSWER QUESTIONS			
1	Explain operating system and importance?	CO 1	Understand
2	Explain clustered systems	CO 4	Remember
3	Explain assemblers, compiler, interpreter, linkers	CO 5	Remember

Assignment-2			
COURSE CODE:		COURSE NAME: OPERATING SYSTEMS	
YEAR & SEMESTER		UNIT NO :3	
SNO	QUESTION	CO	COGNITITVE LEVEL
SHORT ANSWER QUESTIONS			
1	Define RAID	CO 1	Understand
2	Define disk management	CO 2	Remember
3	Define system and network threats	CO 3	Remember

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4	Explain page replacement algorithms	CO 4	Understand
LONG ANSWER QUESTIONS			
1	Explain deadlock detection and recovery	CO 2	Understand
2	Explain deadlock prevention and avoidance	CO 5	Remember
3	Explain semaphores	CO 4	Remember


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DEPARTMENT OF CSE
Academic Year: 2020-21

Subject:

Assignment-1			
COURSE CODE:		COURSE NAME: COMPUTER NETWORKS	
YEAR & SEMESTER		UNIT NO :3	
SNO	QUESTION	CO	COGNITIVE LEVEL
SHORT ANSWER QUESTIONS			
1	Consider the following internet address: 136.27.32.104 a) Convert this address into Binary format.	CO 1	Understand
2	b) Convert this address into Hex format.	CO 2	Remember
3	c) What class does this internet address represent?	CO 3	Remember
4	d) If we apply a subnet mask of FFFFFE00, obtain the relevant network, subnet and host addresses for the given internet address	CO 4	Understand
LONG ANSWER QUESTIONS			
1	The CRC is calculated using the generator polynomial $x^8 + x^2 + x + 1$. Find the CRC bits if the GFC, VPI, Type and CLP fields are all zero and the VCI field is given by 00000000 00001111. Assume that the GFC bits correspond to the highest order bits in the polynomial	CO 1	Understand
2	Given the data word 1010011110 and the divisor 10111a) Show the generation of the codeword at	CO 2	Remember

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	the sender site using binary division b) Show the checking of the codeword at the receiver site assuming no error has occurred. c) What is the syndrome at the receiver end if the data word has an error in the 5 th bit position counting from the right? Namely: data word 1010001110 is received		
3	(a) What is the purpose of a subnet mask? (b) Is the subnet mask 255.255.0.255 valid for a Class A address? Explain	CO 3	Remember


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Assignment-2			
COURSE CODE:		COURSE NAME:COMPUTER NETWORKS	
YEAR & SEMESTER		UNIT NO :3	
SNO	QUESTION	CO	COGNITIVE LEVEL
SHORT ANSWER QUESTIONS			
1	Find the class of the following IP addresses? a) 237.14.2.1 b) 208..35.54.12 c) 129.14.6.8 d) 114.34.2.8	CO 2	Understand
2	Why are we running out of IPv4 addresses? How does IPv6 solve this problem?	CO 1	Remember
3	Determine which of the following an FQDN is and which is a PQDN explain? a. Mil b. Edu c. xxx.yyy.net	CO 3	Remember
LONG ANSWER QUESTIONS			
1	An end system sends 50 packets for second using UDP over a full duplex mode 100 Mbps Ethernet LAN Connection. Each packet consists of 1500 Bytes of the Ethernet frame payload data. What is the throughput when measured at UDP protocol?	CO 4	Remember
2	Assume each packet has typical TCP and IP headers each 20bytes long. If we have three computers, A, B and C. The link between A and B has an MTU of 3000 bytes, while the	CO-5	Understand


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	link between B and C has an MTU of 1000 bytes. Consider the case where a packet needs to be sent from A to C that has a size of 3000 bytes (including headers). How many Fragments will we have from B to C, and how much data will be in each fragment (i.e. excluding headers)? (all connections are assumed to be Ethernet)		
3	A TCP connection is using a window size of 12000 bytes and the previous acknowledgement remembrance number was 22001. It receives a segment with acknowledgment number 24001 and window size advertisement of 12000. Design a diagram to show the situation of the window before and after?	CO 4	Remember
4	A client uses UDP to send data to a server. The data are 15 bytes. Calculate the efficiency of this transmission at the UDP level (ratio of useful bytes to total bytes)?	CO 5	Understand

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2017 BATCH			
FIRST TOPPER	17AT1A0546	H LAKSHMI SRAVYA	82.11

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2017 BATCH			
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	17AT1A0219	T KALYAN	79.03

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"Education is priceless & no one can steal it from you"
-Sridevi, Co-founder & Ex-CEO of GUVI

CERTIFICATE OF PARTICIPATION

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Maliha Asra
has successfully completed participating in **The Guinness World Record Event -**
Most users to take an online computer programming lesson in 24 hours
on April 24th 2021, 6PM to April 25th 2021, 6PM



S.P. Balamurugan
Co-Founder, CEO

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