



**PITHAPUR RAJAH'S GOVERNMENT
COLLEGE(AUTONOMOUS)
KAKINADA - 533 003**

From
Dr. N. SREENIVAS, M.Sc., Ph.D.
Controller of Examinations
P.R. Govt. College (Autonomous)
KAKINADA-533 001

To
Dr. D. Subba Rao, Assoc. Professor
Malineni Lakshmaiah Women's
Engg. College, Pulladigunta
Guntur - 522017

Rc No : Exam Cell/ OP Setting/ 2020-21 dated 00.06.2021

Appointment Letter

Dear Sir/Madam,

Sub: Pithapur Rajah's. Government College (Autonomous),
Kakinada-Semester End-Examinations

You are appointed as the **Question Paper setter**. You are requested to set the following Question Paper(s).

S. No.	Subject	Sem.	Medium	Max. Marks	No., of Sets
1	<i>Communication & Soft Skills</i> <i>IV Semester</i>	<i>IV</i>	<i>English</i>	<i>50</i>	<i>1</i>

Please go through the "Instructions to the Question Paper Setter". Syllabi and model question paper of the above are enclosed here with. Kindly return them along with the Question Paper(s) before *30-6-21* to the **Controller of Examinations, P.R. Govt. College (Autonomous), Kakinada.** Please keep the material in the respective covers and seal.

Place: KAKINADA.
07-06-2021

Controller of Examinations

For Any Quarries: Examination Cell - Land Line No. 0884-2363375

Encl: Instructions, Syllabi & Model Question Paper(s), Covers etc.

[Signature]
PRINCIPAL
MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGE
PULLADIGUNTA, GUNTUR-17.



PITHAPUR RAJAH'S GOVERNMENT
COLLEGE(AUTONOMOUS)
KAKINADA - 533 003

From
Dr. N. SREENIVAS, M.Sc., Ph.D.
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P.R. Govt. College (Autonomous)
KAKINADA-533 001

To
Dr. D. Subba Rao, Assoc. Professor,
Malineni Lakshmaiah Women's
Engg. College, Pulladigunta
Guntur - 522017

Rc No : Exam Cell/ OP Setting/ 2021-22 dated 07.06.2021

Appointment Letter

Dear Sir/Madam,

Sub: Pithapur Rajah's. Government College (Autonomous),
Kakinada-Semester End-Examinations

You are appointed as the **Question Paper setter**. You are requested to
set the following Question Paper(s).

S. No.	Subject	Sem.	Medium	Max. Marks	No., of Sets
1	"History of English language"	IV	English	60	1


Please go through the "Instructions to the Question Paper Setter".
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return them along with the Question Paper(s) before 30-6-21 to the
Controller of Examinations, P.R. Govt. College (Autonomous), Kakinada.
Please keep the material in the respective covers and seal.

Place: KAKINADA.
07-06-2021

Controller of Examinations

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Encl: Instructions, Syllabi & Model Question Paper(s), Covers etc.


PRINCIPAL
MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGE
PULLADIGUNTA, GUNTUR-17.



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COLLEGE(AUTONOMOUS)
KAKINADA - 533 003**

From
Dr. N. SREENIVAS, M.Sc., Ph.D.
Controller of Examinations
P.R. Govt. College (Autonomous)
KAKINADA-533 001

To
*Dr. D. Subba Rao, Assoc professor
Malineni Lakshmaiah Women's
Engg. College, Pulladigunta
Guntur - 522017*

Rc No : Exam Cell/ OP Setting/ 2021 dated 28-2-21

Appointment Letter

Dear Sir/Madam,

Sub: Pithapur Rajah's. Government College (Autonomous),
Kakinada-Semester End-Examinations

You are appointed as the **Question Paper setter**. You are requested to set the following Question Paper(s).

S. No.	Subject	Sem.	Medium	Max. Marks	No., of Sets
1	"20th Century British Literature"	V	English	60	1

Please go through the "Instructions to the Question Paper Setter". Syllabi and model question paper of the above are enclosed here with. Kindly return them along with the Question Paper(s) before 28-2-21 to the **Controller of Examinations, P.R. Govt. College (Autonomous), Kakinada**. Please keep the material in the respective covers and seal.

Place: KAKINADA.
21-02-2021

Controller of Examinations

For Any Quarries: Examination Cell - Land Line No. 0884-2363375

Encl: Instructions, Syllabi & Model Question Paper(s), Covers etc.

Principal
**PRINCIPAL
MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGE
PULLADIGUNTA, GUNTUR-17.**



**PITHAPUR RAJAH'S GOVERNMENT
COLLEGE(AUTONOMOUS)
KAKINADA - 533 003**

From
Dr. N. SREENIVAS, M.Sc., Ph.D.
Controller of Examinations
P.R. Govt. College (Autonomous)
KAKINADA-533 001

To
Dr. D. Subba Rao
Assoc. Professor of English
Maharani Lakshmaiah Women's
Engg. College, Pulladigunta Gnt
pin : 522017

Rc No : Exam Cell/ QP Setting/2021 dated 30-6-21

Appointment Letter

Dear Sir/Madam,

Sub: Pithapur Rajah's. Government College (Autonomous),
Kakinada-Semester End-Examinations

You are appointed as the **Question Paper setter**. You are requested to set the following Question Paper(s).

S. No.	Subject	Sem.	Medium	Max. Marks	No., of Sets
1	<i>Communication & Soft Skills</i>	<i>III</i>	<i>Eng</i>	<i>50</i>	<i>1</i>

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Place: KAKINADA.
21-02-2021

[Signature]
Controller of Examinations

For Any Quarries: Examination Cell - Land Line No. 0884-2363375

Encl: Instructions, Syllabi & Model Question Paper(s), Covers etc.

[Signature]



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KAKINADA - 533 003**

From
Dr. N. SREENIVAS, M.Sc., Ph.D.
Controller of Examinations
P.R. Govt. College (Autonomous)

KAKINADA-533 001

To
Dr. D. Subba Rao.....
Asst. Professor of English
Malineni Lakshmaiah Women's
Engg. College, Pulladigunta
Guntur - 522017

Rc No : Exam Cell/ OP Setting/ 2021 dated 28-2-21

Appointment Letter

Dear Sir/Madam,

Sub: Pithapur Rajah's. Government College (Autonomous),
Kakinada-Semester End-Examinations

You are appointed as the **Question Paper setter**. You are requested to set the following Question Paper(s).

S. No.	Subject	Sem.	Medium	Max. Marks	No., of Sets
1	English (General - I)	I	English	60	1


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Place: KAKINADA.
21-02-2021


Controller of Examinations

For Any Quarries: Examination Cell - Land Line No. 0884-2363375

Encl: Instructions, Syllabi & Model Question Paper(s), Covers etc.


**PRINCIPAL
MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGE
PULLADIGUNTA, GUNTUR-17.**



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From
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Controller of Examinations
P.R. Govt. College (Autonomous)

KAKINADA-533 001

To
Dr. D. SUBBA RAO
Assoc. Professor of English
Malineni Lakshmaiah Women's
Engg. College, Pulladigunta
Guntur - 522 007

Rc No : Exam Cell/ QP Setting/2021 dated 28-2-21

Appointment Letter

Dear Sir/Madam,

Sub: Pithapur Rajah's. Government College (Autonomous),
Kakinada-Semester End-Examinations

You are appointed as the **Question Paper setter**. You are requested to set the following Question Paper(s).

S. No.	Subject	Sem.	Medium	Max. Marks	No., of Sets
1	English Literature	I	English	60	1


Please go through the "Instructions to the Question Paper Setter". Syllabi and model question paper of the above are enclosed here with. Kindly return them along with the Question Paper(s) before 28-2-21 to the **Controller of Examinations, P.R. Govt. College (Autonomous), Kakinada**. Please keep the material in the respective covers and seal.

Place: KAKINADA.
21-02-2021

Controller of Examinations,

For Any Quarries: Examination Cell - Land Line No. 0884-2363375

Encl: Instructions, Syllabi & Model Question Paper(s), Covers etc.


**PRINCIPAL
MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGE
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P.R. Govt. College (Autonomous)
KAKINADA-533 001

To
*Dr. D. Subba Rao, Assoc. Professor
Malineni Lakshmaiah Women's
Engg. College, Pulladigunta
Guntur - 522017*

Rc No : Exam Cell/ QP Setting/2021 dated 28-6-21

Appointment Letter

Dear Sir/Madam,

Sub: Pithapur Rajah's. Government College (Autonomous),
Kakinada-Semester End-Examinations

You are appointed as the **Question Paper setter**. You are requested to set the following Question Paper(s).

S. No.	Subject	Sem.	Medium	Max. Marks	No., of Sets
1	Special English	VI	English	60	1


Please go through the “**Instructions to the Question Paper Setter**”. Syllabi and model question paper of the above are enclosed here with. Kindly return them along with the Question Paper(s) before ~~28-6-21~~ to the **Controller of Examinations, P.R. Govt. College (Autonomous), Kakinada**. Please keep the material in the respective covers and seal.

Place: KAKINADA.
07-06-2021

Controller of Examinations

For Any Quarries: Examination Cell - Land Line No. 0884-2363375

Encl: Instructions, Syllabi & Model Question Paper(s), Covers etc.


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To
Dr. D. Subba Rao, Assoc. professor
Malineni Lakshmaiah Women's
Engg. college, Pulladigunta
Guntur - 522017

Rc No : Exam Cell/ QP Setting/2021 dated 26-6-21

Appointment Letter

Dear Sir/Madam,

Sub: Pithapur Rajah's. Government College (Autonomous),
Kakinada-Semester End-Examinations

You are appointed as the **Question Paper setter**. You are requested to,
set the following Question Paper(s).


S. No.	Subject	Sem.	Medium	Max. Marks	No., of Sets
1	"Special English" cluster - I	VI	English	60	1

Please go through the "Instructions to the Question Paper Setter".
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return them along with the Question Paper(s) before 26-6-21 to the
Controller of Examinations, P.R. Govt. College (Autonomous), Kakinada.
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Place: KAKINADA.
07-06-2021

Controller of Examinations

For Any Quarries: Examination Cell - Land Line No. 0884-2363375


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KAKINADA-533 001

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Malineni Lakshmaiah Women's
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Guntur - 522017

Rc No : Exam Cell/ QP Setting/ 2020-21 dated 07.06.2021

Appointment Letter

Dear Sir/Madam,

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Kakinada-Semester End-Examinations

You are appointed as the **Question Paper setter**. You are requested to set the following Question Paper(s).

S. No.	Subject	Sem.	Medium	Max. Marks	No., of Sets
1	Literary Criticism paper: IV	IV	English	60	1


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Place: KAKINADA.
07-06-2021

Controller of Examinations

For Any Quarries: Examination Cell - Land Line No. 0884-2363375

Encl: Instructions, Syllabi & Model Question Paper(s), Covers etc.


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WOMEN'S ENGINEERING COLLEGE
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KAKINADA-533 001

To
Dr. D. Subba Rao, Assoc. professor
Malineni Lakshmaiah Women's
Engg. College, Pulladigunta, GNT
pin : 522017

Rc No : Exam Cell/ QP Setting/2021 dated 28-2-21

Appointment Letter

Dear Sir/Madam,

Sub: Pithapur Rajah's. Government College (Autonomous),
Kakinada-Semester End-Examinations

You are appointed as the **Question Paper setter**. You are requested to
set the following Question Paper(s).

S. No.	Subject	Sem.	Medium	Max. Marks	No., of Sets
1	"History of English Literature"	I	English	60	1


Please go through the "Instructions to the Question Paper Setter".
Syllabi and model question paper of the above are enclosed here with. Kindly
return them along with the Question Paper(s) before 28-2-21 to the
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Please keep the material in the respective covers and seal.

Place: KAKINADA.
21-02-2021

Controller of Examinations

For Any Quarries: Examination Cell - Land Line No. 0884-2363375

Encl: Instructions, Syllabi & Model Question Paper(s), Covers etc.


PRINCIPAL
MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGE
PULLADIGUNTA, GUNTUR-17.



MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

PULLADIGUNTA, GUNTUR - 17, AFFILIATED TO JNTUK - KAKINADA

IB.Tech I-Sem Internal Lab Examinations OCTOBER – 2019-2020

KE

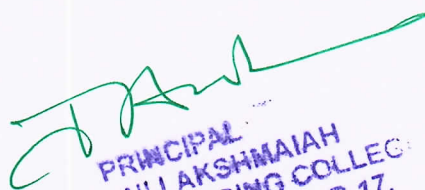
Branch: I ECE-A&B

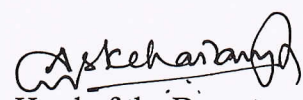
Course: AC Lab

Date:

Max Marks: 25

1. Determine the amount of HCl present in the given 100.0ml of the unknown solution by using Standard Sodium carbonate solution.
2. Determine the Alkalinity of a given 100.0 ml of unknown sample water.
3. Determine the amount of Mn(II) using standard Oxalic Acid solution.
4. Determine the amount of Ferrous Iron (II) present in a given 100.0 ml of the unknown solution by using Standard $K_2Cr_2O_7$ solution.
5. Determine the amount of Copper(II) present in the given 100.0 ml of the unknown solution using Standard Hypo solution.
6. Determine the temporary and permanent hardness of given unknown sample Water Using complexometric method.
7. Estimate the amount of Vitamin 'C' present in the given Lemon juice by Iodometric method.
8. Determine the PH of a given unknown sample water by using PH meter.
9. Determine the concentration of HCl by titrating strong Acid vs strong Base (HCl Vs NaOH).
10. Determine the PH of the given sample Water.


PRINCIPAL
MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGE
PULLADIGUNTA, GUNTUR-17,


Head of the Department
HOD
Dept. of Science & Humanities
Malineni Lakshmaiah Women's Engineering College
Pulladigunta, GUNTUR-522017



Malineni Lakshmaiah Women's Engineering College

(Approved by AICTE & Affiliated to JNTUK, Kakinada)

Pulladigunta (V), Vatticherukuru(M), Guntur-522017

(ISO 9001: 2015 Certified)

DEPARTMENT OF SCIENCE AND HUMANITIES

I B.TECH, II SEM LAB EXTERNAL EXAMINATIONS

COURSE:APPLIED PHYSICS LAB

Max.Marks:35

Time:3 hrs.

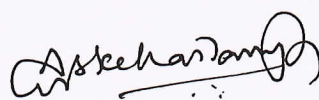
Branch: ECE

Date: 07/10/2021


1. Determination of wavelength of Laser light using diffraction grating.
2. Determination of numerical aperture and acceptance angle of an optical fiber.
3. Determination of dielectric constant using charging and discharging method
4. To determine the energy gap of a semiconductor using p-n junction diode.
5. Determination of radius of curvature of a given plano convex lens by Newton's rings.
6. Determination of wavelengths of different spectral lines in mercury spectrum using diffraction grating in normal incidence configuration.
7. Determination of dispersive power of the prism.
8. Estimation of Planck's constant using photoelectric effect.
9. Study the variation of B versus H by magnetizing the magnetic material (B-H curve).
10. Magnetic field along the axis of a current carrying circular coil by Stewart & Gee's Method


External Examiner


Internal Examiners


Head of the Department
HOD

Dept. of Science & Humanities
Malineni Lakshmaiah Women's Engineering College
Pulladigunta, GUNTUR-522017


PRINCIPAL
MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGE
PULLADIGUNTA, GUNTUR-522017



MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

PULLADIGUNTA, GUNTUR - 17, AFFILIATED TO JNTUK - KAKINADA

II-B.Tech, I-Sem, External Lab Examinations February – 2021

STLD External Lab

KE

Branch: II ECE-A&B

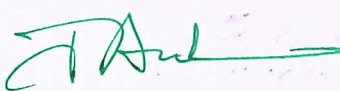
Date: 22-2-2021 & 23-2-2021

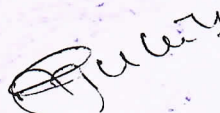
Time:

Max Marks: 20

1. Verify the truth tables of Basic Logic gates (i) OR (ii) AND (iii) NOT.
2. Verify the truth tables of two input Universal Logic gates (i) NOR (ii) NAND.
3. Verify the truth tables of two input Special Logic gates (i) Exclusive OR (ii) Exclusive NOR.
4. Design a simple combinational circuit with four variables and obtain minimal SOP expression and verify the truth table using Digital Trainer Kit.
5. Verify the functional table of 3 to 8 line Decoder.
6. Design and Verify 4 variable logic function using 8 to 1 multiplexer.
7. Design full adder circuit and verify its functional table.
8. Verify the functional table of J K Edge triggered Flip–Flop.
9. Verify the functional table of D Flip–Flop.
10. Verify the operation of 4-bit Universal Shift Register for different Modes of operation.
11. Draw the circuit diagram of a 4-bit comparator and test the output.
12. Design BCD Adder Circuit and Test the Same using Relevant IC.


EXTERNAL EXAMINER


PRINCIPAL
MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGE
PULLADIGUNTA, GUNTUR-17


HOD

Electronics & Communication Engg.
Malineni Lakshmaiah Women's Engineering College
Pulladigunta, GUNTUR-522017



MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

PULLADIGUNTA, GUNTUR - 17, AFFILIATED TO JNTUK - KAKINADA

III-B.Tech, I-Sem, External Lab Examinations February – 2021

PDC External Lab

KE

Branch: III ECE-A

Date: 25-3-2021

Time: 9am-5pm

Max Marks: 50

1. Observe and draw the LWS char's of low pass RC for different time constants, when $10V_{pp}$ & 50hz square wave input is applied and compare theoretical and practical values of rise time
2. Observe and draw the LWS char's of high pass RC for different time constants, when $10V_{pp}$ & 50hz square wave input is applied and compare theoretical and practical values of tilt
3. Observe clipping operation of shunt and double ended clippers, draw the response for $10V_{pp}$, 1kz sinusoidal signal.
4. Observe clipping operation of series and double ended clippers, draw the response for $10V_{pp}$, 1kz sinusoidal signal.
5. Observe the char's of clamper circuits for 10(pp), 1kz sinusoidal signal, plot the waveforms.
6. Observe the switching characteristics of a transistor and plot the input and output waveforms.
7. Verify the truth tables of following logic gates using diodes and transistors
 - i) OR
 - ii) AND
 - iii) NOT
8. Verify the truth tables of following logic gates using diodes and transistors
 - i) NAND
 - ii) NOR
9. Generate the sweep signal using UJT relaxation oscillator and calculate sweep time.
10. Compare theoretical and practical values for UTP and LTP of a Schmitt Trigger.
11. Observe the function of Bistable multivibrator using transistors for $10V_{pp}$, 1kz, trigger input. Draw the waveforms.
12. Observe the function of Astable multivibrator using transistors and calculate the free-running frequency from graph.

Sudhakar
EXTERNAL EXAMINER

J. A. S.
PRINCIPAL

R. K. S.
HOD

MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGE
PULLADIGUNTA, GUNTUR-17

HOD
Dept. of Electronics & Communication Engineering
Malineni Lakshmaiah Women's Engineering College
Pulladigunta, GUNTUR-522017



MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE, GUNTUR

Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada

(An ISO9001:2008 Certified Institution)

Pulladigunta (Vil), Vatticherukuru (Md), Prathipadu Road, Guntur – 522 017 A.P.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

III-B.Tech I-SEM External Lab Examinations JAN – 2022

LICA External Lab

Branch: III ECE-A & B

Time: 9 AM to 12.30 PM

Date: 28-01-2022 & 29-01-2022

MAX MARKS:30

S. No	Questions	CO	RBTL
1	Verify the operation of adder , Subtractor & Comparator using IC 741	1	2
2	Verify the operation of an Differentiator & Integrator using IC 741	1	2
3	Verify the Operation of Waveform Generator using single OP-AMP with variable duty cycle	-	3
4	Design and verify an LPF & HPF for higher cutoff frequency 2 KHZ and pass band gain of 2	2	3
5	Design and verify an BPF & Notch Filter for higher cutoff frequency 2 KHZ and pass band gain of 2	2	3
6	Design and verify an Band Rejection Filter for lower cutoff frequency 2 KHZ and pass band gain of 2	2	3
7	Generate square wave using IC 741 and Calculate Frequency and Amplitude.	-	2
8	Verify the operation of RC Phase shift & Wein Bridge Oscillator and Compare the Theoretical and Practical response.	-	2
9	Verify the operation of Astable & Monostable multivibrator using IC 555	3	2
10	Design Schmitt Trigger Circuits – using Single OP-AMP with Reference voltage	2	3
11	Verify the PLL Operation and Estimation of Capture and Lock range	2	3
12	Verify the Operation of VCO Applications using IC 566	4	2
13	Design a 4-bit R-2R Ladder network with OP-AMP Buffer and Measure the output waveform for various input Combinations	-	2
14	Verify the operation of voltage regulator using IC7809, IC 7805 & IC 7812	5	2

INTERNAL EXAMINER

EXTERNAL EXAMINER

HOD

HOD

Dept. of Electronics & Communication Engin
Malineni Lakshmaiah Women's Engineering &
Pulladigunta, GUNTUR-522017

PRINCIPAL

MALINENI LAKSHMAIAH
WOMEN'S ENGINEERING COLLEGE
PULLADIGUNTA, GUNTUR-522017



MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

PULLADIGUNTA, GUNTUR - 17, AFFILIATED TO JNTUK - KAKINADA

III-B.Tech, I-Sem, External Lab Examinations February – 2021

DICA External Lab

KE

Branch: III ECE-A&B

Date: 18-2-2021

Time:

Max Marks: 25


1. Write a VHDL code for logic gates and verify the functionality using XILINX ISE Tool.
2. Write a VHDL code for 1-bit full adder using behavioral modeling style and verify the functionality using XILINX ISE Tool.
3. Write a VHDL code for 1-bit full adder using structural modeling style and verify the functionality using XILINX ISE Tool.
4. Write a VHDL code for 3*8 Decoder (IC 74138) and verify the functionality using XILINX ISE Tool.
5. Write a VHDL code for 8*3 Encoder and verify the functionality using XILINX ISE Tool.
6. Write a VHDL code for 8*1 Multiplexer (IC 74151) and verify the functionality using XILINX ISE Tool.
7. Write a VHDL code for 1*4 De-Multiplexer (IC 74155) and verify the functionality using XILINX ISE Tool.
8. Write a VHDL code for 4-Bit Comparator (IC7485) and verify the functionality using XILINX ISE Tool.
9. Write a VHDL code for D-Flip Flop (IC7474) and verify the functionality using XILINX ISE Tool.
10. Write a VHDL code for Decade Counter (IC7490) and verify the functionality using XILINX ISE Tool.
11. Write a VHDL code for Shift Register and verify the functionality using XILINX ISE Tool.
12. Write a VHDL code for ALU and verify the functionality using XILINX ISE Tool.


EXTERNAL EXAMINER


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MALINENI LAKSHMAIAH WOMEN'S ENGINEERING COLLEGE

PULLADIGUNTA, GUNTUR -17, AFFILIATED TO JNTUK-KAKINADA

II-B.Tech, II-Sem, External Lab Examinations August-2021

ECA EXTERNAL LABORATORY

KE

Branch: II ECE - A & B

Date: 22-8-2021

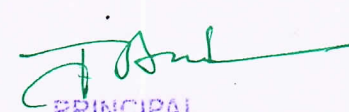
Time:

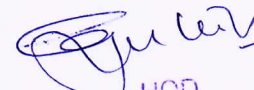
Max Marks: 30

1. Determination of f_T of a given transistor and find its frequency response.
2. Draw the frequency response of a Voltage-Series Feedback Amplifier.
3. Draw the frequency response and bandwidth of a Current-Shunt Feedback Amplifier
4. Design and construct the RC phase shift oscillator and verify its Frequency of oscillation.
5. Design a Hartley/Colpitt's Oscillator and measure the frequency of oscillator.
6. Design and construct RC coupled amplifier and verify the voltage gain.
7. Construct a Darlington current amplifier circuit and to plot the frequency response Characteristics.
8. Construct and simulate the Bootstrapped emitter follower and to verify the frequency of oscillation.
9. Construct and simulate the Class – A Power Amplifier and to verify the Frequency of oscillation.
10. Observe the voltage gain and frequency response of a single tuned voltage Amplifier.
11. Simulate and verify the efficiency of class B complementary symmetry push pull Amplifier.
12. Design and simulate and verify efficiency of class B complementary symmetry push pull amplifier.


INTERNAL EXAMINER


EXTERNAL EXAMINER


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PULLADIGUNTA (V), VATTICHERUKURU (M), GUNTUR DIST. A.P- 522 017

KE

EXTERNAL LAB EXAMINATION QUESTION PAPER

COURSE: II/IV B.Tech

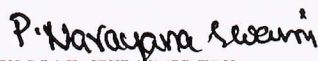
SUBJECT: AC LAB

MARKS: 50


Branch: ECE

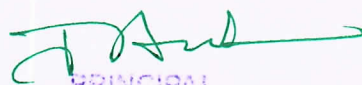
DATE:

1. To generate Amplitude Modulation & Demodulation using MAT lab?
2. To generate DSB-SC Modulation & Demodulation using MAT lab?
3. To generate SSB-SC Modulation & Demodulation using MAT lab?
4. To generate Frequency Modulation & Demodulation using MAT lab?
5. To generate Phase Modulation & Demodulation using MAT lab?
6. To generate pulse Amplitude Modulation & Demodulation using MAT lab?
7. Verify the process of Amplitude Modulation & Demodulation using hard ware?
8. Verify the process of Frequency Modulation & Demodulation using hard ware?
9. Verify the process of DSB-SC Modulation & Demodulation using hard ware?
10. Verify the process of PAM & Demodulation using hard ware?


INTERNAL EXAMINER


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EXTERNAL LAB EXAMINATION QUESTION PAPER

Branch: III ECE SEM: II

Date: 22 -08-2021

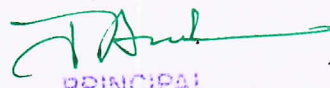
Sub: Microprocessors and Microcontrollers Lab

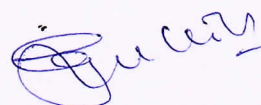
Marks: 50

- 1.W.A.L.P Sorting of ascending order?
- 2.W.A.L.P Sorting of descending order?
- 3.W.A.L.P Multi byte 32bit addition?
4. W.A.L.P Multi byte 32bit Subtraction?
- 5.W.A.L.P sum of squares/cubes of a given number?
- 6.W.A.L.P Addition Of n-BCD Numbers?
- 7.W.A.L.P Multiplication / Division 8&16 bit
 - a) 8 Bit multiplication
 - b) 16 Bit multiplication
 - c) 8 bit Division
 - d) 16 Bit Division
8. W.A.L.P DAC interfacing through 8255?
- 9.W.A.L.P Finding the number of 0's & 1's of given 8 bit numbers?
- 10.W.A.L.P Average of n-numbers?
- 11.W.A.L.P Stepper motor interface?


INTERNAL EXAMINER


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

INEXTERNAL LAB EXAMINATION QUESTION PAPER

LAB: DSP

MARKS: 25

- 1 Find the linear convolution of the two sequences $x(n)=\{1,2,3,1\}$, $h(n)=\{1,2,1,2,4\}$ using C.C.Studio software & MATLAB
2. Find the linear and circular convolution of the two sequences $x(n)=\{1,2,3,2\}$, $h(n)=\{4,3,2,2\}$ using MATLAB
- 3 Compute the 8-point DFT of the given sequence $x(n)=\{1,1,1,1,2,2,2,2\}$ using MATLAB and also plot the magnitude and phase of the sequence
4. Compute the 8-point DFT of the given sequence $x(n)=\{1,2,3,4,4,3,2,1\}$ using C.C.Studio software
5. To generate the sum of sinusoidal signals using C.C.Studio software
6. To find the frequency response of analog LP filter using C.C.Studio software
7. Find the frequency response of analog HP filter using C.C.Studio hardware
8. To generate the sum of sinusoidal signals MATLAB
9. Find the frequency response of analog LP filters using MATLAB
- 10 Find the frequency response of analog HP filters using MATLAB

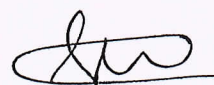
V. Ajay shankar
Internal Examiner



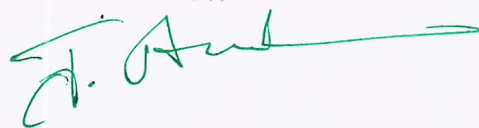
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Department of Computer Science and Engineering

MAX.MARKS:

YEAR: IV

DATE: 4-3-2021

SEM: I

SOFTWARE ARCHITECTURE & DESIGN PATTERNS LAB

(External Lab Examination: 2020-21)

1. Tool Presentation

Rational Rose: how to write and maintain a UML specification; configuration management;

Architecture design; CORBA-IDL document generation; Java code generation from a UML Model etc.

Presentation of the Project: Weather Mapping System.

2. Use Case View

Design of the Use Case View. Risk Analysis.

3: Logical View

Design of the Logical View of the Weather Mapping System (WMS).

4: Integrating Patterns in the Architecture

Integration of selected architectural and design patterns in the logical view obtained previously.

5: Implementation, Process, and Deployment Views

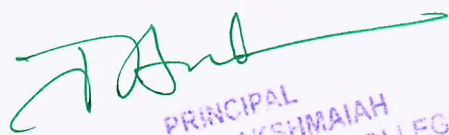
Design of the implementation, process, and deployment views for the Weather Mapping System.

6: Component and Inter process Communication Design

Generation from the previous architecture design of CORBA Interfaces and Components Definitions.

7: Implementation of WMS

Implementation of the Weather Mapping System (Java & C++), with a particular emphasis on


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DESIGN PATTERNS LAB

1. Use case Diagram for Librarian Scenario.
2. Using UML design Abstract factory design pattern.
3. Using UML design Adapter-class Design pattern.
4. Using UML design Adapter-object Design pattern.
5. Using UML design Strategy Design pattern.
6. Using UML design Builder Design pattern.
7. Using UML design Bridge Design pattern.
8. Using UML design Decorator Design pattern.
9. User gives a print command from a word document. Design to represent this chain of responsibilityDesign pattern.
10. Design a Flyweight Design pattern.
11. Using UML design Facade Design pattern.
12. Using UML design Iterator Design pattern.
13. Using UML design Mediator Design pattern.
14. Using UML design Proxy Design pattern.
15. Using UML design Visitor Design pattern.

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MAX.MARKS:

YEAR: IV

DATE: 5-3-2021

SEM: I

WEB TECHNOLOGIES LAB
(External Lab Examination: 2020-21)

1) HOME PAGE:

The static home page must contain three **frames**.

Top frame: Logo and the college name and links to Home page, Login page, Registration page, Catalogue page and Cart page (the description of these pages will be given below).

Left frame: At least four links for navigation, which will display the catalogue of respective

2) LOGIN PAGE:

3) CATALOGUE PAGE:

The catalogue page should contain the details of all the books available in the web site in a table.

The details should contain the following:

1. Snap shot of Cover Page.
2. Author Name.
3. Publisher.
4. Price.
5. Add to cart button.

4. REGISTRATION PAGE:

Create a “*registration form*” with the following fields

- 1) Name (Text field)
- 2) Password (password field)
- 3) E-mail id (text field)
- 4) Phone number (text field)
- 5) Sex (radio button)
- 6) Date of birth (3 select boxes)
- 7) Languages known (check boxes – English, Telugu, Hindi, Tamil)
- 8) Address (text area)


5. Design a web page using CSS (Cascading Style Sheets)

which includes the following:

- 1) Use different font, styles:

In the style definition you define how each selector should work (font, color etc.).

Then, in the body of your pages, you refer to these selectors to activate the styles


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6. Write an XML File

which will display the Book information which includes the following:

- 1) Title of the book
- 2) Author Name
- 3) ISBN number
- 4) Publisher name
- 5) Edition
- 6) Price

7. Write Ruby program reads a number and calculates the factorial value of it and prints the same.

8. Write a Ruby program which counts number of lines in a text files using its regular Expressions facility.

9. Write a Ruby program that uses iterator to find out the length of a string.

10. Write simple Ruby programs that uses arrays in Ruby.

11. Write programs which uses associative arrays concept of Ruby.

12. Write Ruby program which uses Math module to find area of a triangle.

13. Write Ruby program which uses tk module to display a window

14. Define complex class in Ruby and do write methods to carry operations on complex objects.

15. Write a program which illustrates the use of associative arrays in perl.

16. Write perl program takes set names along the command line and prints whether they are regular files or special files

17. Write a perl program to implement UNIX 'passed' program

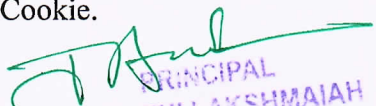
18. An example perl program to connect to a MySQL database table and executing simple commands.

19. Example PHP program for cotactus page.

20. User Authentication:

Assume four users user1, user2, user3 and user4 having the passwords pwd1, pwd2, pwd3 and pwd4 respectively. Write a PHP for doing the following.

1. Create a Cookie and add these four user id's and passwords to this Cookie.


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2. Read the user id and passwords entered in the Login form and authenticate with the values (user id and passwords) available in the cookies. If he is a valid user (i.e., user-name and password match) you should welcome him by name (user-name) else you should display "You are not an authenticated user". Use init-parameters to do this.

21. Example PHP program for registering users of a website and login.

22.

a. Install a database(Mysql or Oracle).

b. Create a table which should contain at least the following fields: name, password, email-id, phone number(these should hold the data from the registration form).

c. Write a PHP program to connect to that database and extract data from the tables and display them. Experiment with various SQL queries.

d. Insert the details of the users who register with the web site, whenever a new user clicks the submit button in the registration page .


23. Write a PHP which does the following job:

Insert the details of the 3 or 4 users who register with the web site by using registration form. Authenticate the user when he submits the login form using the user name and password from the database (similar to week8 instead of cookies).

24.Create tables in the database which contain the details of items (books in our case like Book name , Price, Quantity, Amount) of each category. Modify your catalogue page in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using PHP

25.HTTP is a stateless protocol. Session is required to maintain the state.

The user may add some items to cart from the catalog page. He can check the cart page for the selected items. He may visit the catalogue again and select some more items. Here our interest is the selected items should be added to the old cart rather than a new cart. Multiple users can do the same thing at a time(i.e., from different systems in the LAN using the ip-address instead of local host). This can be achieved through the use of sessions. Every user will have his own session which will be created after his successful login to the website. When the user logs out his session should get invalidated (by using the method session. Invalidate ()). Modify your catalogue and cart PHP pages to achieve the above mentioned functionality using sessions.


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MAX.MARKS:

YEAR: III

DATE: 4-3-2021

SEM: I

UNIFIED MODELING LAB

(External Lab Examination: 2020-21)

Q1. Familiarization with Rational Rose or Umbrello For each case study:

Q2. For each case study:

- a) Identify and analyze events
- b) Identify Use cases
- c) Develop event table
- d) Identify & analyze domain classes
- e) Represent use cases and a domain class diagram using Rational Rose
- f) Develop CRUD matrix to represent relationships between use cases and problem domain classes

Q3• For each case study:

- a) Develop Use case diagrams
- b) Develop elaborate Use case descriptions & scenarios
- c) Develop prototypes (without functionality)
- d) Develop system sequence diagrams

Q4. For each case study:

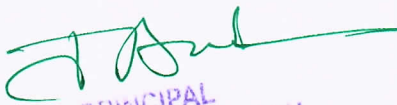
- a) Develop high-level sequence diagrams for each use case
- b) Identify MVC classes / objects for each use case
- c) Develop Detailed Sequence Diagrams / Communication diagrams for each use case showing interactions among all the three-layer objects
- d) Develop detailed design class model (use GRASP patterns for responsibility assignment)
- e) Develop three-layer package diagrams for each case study

Q5 • For each case study:

- a) Develop Use case Packages
- b) Develop component diagrams
- c) Identify relationships between use cases and represent them
- d) Refine domain class model by showing all the associations among classes

Q6: • For each case study:

- a) Develop sample diagrams for other UML diagrams - state chart diagrams, activity diagrams and deployment diagrams


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MAX.MARKS:

YEAR: III

DATE: 5-3-2021

SEM: I

OPERATING SYSTEM LAB

(External Lab Examination: 2020-21)

1. Simulate the following CPU scheduling algorithms a) Round Robin b) SJF c) FCFS d) Priority
2. Multiprogramming-Memory management- Implementation of fork (), wait (), exec() and exit (), System calls
3. Simulate the following
 - a) Multiprogramming with a fixed number of tasks (MFT)
 - b) Multiprogramming with a variable number of tasks (MVT)
4. Simulate Bankers Algorithm for Dead Lock Avoidance
5. Simulate Bankers Algorithm for Dead Lock Prevention.
6. Simulate the following page replacement algorithms.
 - a) FIFO b) LRU c) LFU
7. Simulate the following File allocation strategies
 - a) Sequenced b) Indexed c) Linked

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LINUX PROGRAMMING LAB

1.

a) Study of Unix/Linux general purpose utility command list man, who, cat, cd, cp, ps, ls, mv, rm, mkdir, rmdir, echo, more, date, time, kill, history, chmod, chown, finger, pwd, cal, logout, shutdown.

b) Study of vi editor.

c) Study of Bash shell, Bourne shell and C shell in Unix/Linux operating system.

d) Study of Unix/Linux file system (tree structure). e) Study of .bashrc, /etc/bashrc and Environment variables.

2. Write a C program that makes a copy of a file using standard I/O, and system calls

3. Write a C program to emulate the UNIX ls -l command.

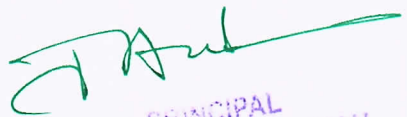
4. Write a C program that illustrates how to execute two commands concurrently with a command pipe. Ex: - ls -l | sort

5. Write a C program that illustrates two processes communicating using shared memory

6. Write a C program to simulate producer and consumer problem using semaphores

7. Write C program to create a thread using pthreads library and let it run its function.

8. Write a C program to illustrate concurrent execution of threads using pthreads library


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MAX.MARKS:

YEAR: III

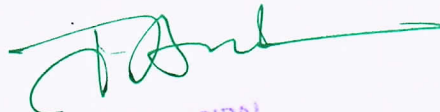
DATE: 6-3-2021

SEM: I

DATA BASE MANAGEMENT SYSTEM LAB

(External Lab Examination: 2020-21)

1. Queries to facilitate acquaintance of Built-In Functions, String Functions, Numeric Functions, Date Functions and Conversion Functions.
2. Queries using operators in SQL
3. Queries to Retrieve and Change Data: Select, Insert, Delete, and Update
4. Queries using Group By, Order By, and Having Clauses
5. Queries on Controlling Data: Commit, Rollback, and Save point
6. Queries to Build Report in SQL *PLUS
7. Queries for Creating, Dropping, and Altering Tables, Views, and Constraints
8. Queries on Joins and Correlated Sub-Queries
9. Queries on Working with Index, Sequence, Synonym, Controlling Access, and Locking Rows for Update, Creating Password and Security features PL/SQL
10. Write a PL/SQL Code using Basic Variable, Anchored Declarations, and Usage of Assignment Operation
11. Write a PL/SQL Code Bind and Substitution Variables. Printing in PL/SQL
12. Write a PL/SQL block using SQL and Control Structures in PL/SQL
13. Write a PL/SQL Code using Cursors, Exceptions and Composite Data Types
14. Write a PL/SQL Code using Procedures, Functions, and Packages FORMS
15. Write a PL/SQL Code Creation of forms for any Information System such as Student Information System, Employee Information System etc.
16. Demonstration of database connectivity.


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MAX.MARKS:

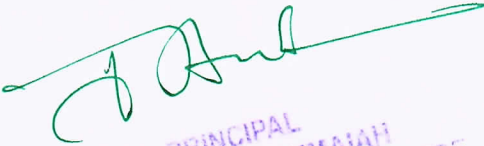
YEAR: III

DATE: 6-7-2021

SEM: II

NETWORK PROGRAMMING LAB (External Lab Examination: 2020-21)

1. Understanding and using of commands like ifconfig, netstat, ping, arp, telnet, ftp, finger, Trace route, whoisetc. Usage of elementary socket system calls (socket (), bind(), listen(), accept(),connect(),send(),recv(),sendto(),recvfrom()).
2. Implementation of Connection oriented concurrent service (TCP).
3. Implementation of Connectionless Iterative time service (UDP).
4. Implementation of Select system call.
5. Implementation of gesockopt (), setsockopt () system calls.
6. Implementation of get peer name () system call.
7. Implementation of remote command execution using socket system calls.
8. Implementation of Distance Vector Routing Algorithm
9. Implementation of SMTP.
10. Implementation of FTP.
11. Implementation of HTTP.
12. Implementation of RSA algorithm.


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Department of Computer Science and Engineering

MAX.MARKS:

YEAR: III

DATE: 7-7-2021

SEM: II

SOFTWARE TESTING LAB

(External Lab Examination: 2020-21)

1 Write programs in 'C' Language to demonstrate the working of the following constructs:

i) do...while ii) while....do iii) if...else iv) switch v) for

2 "A program written in 'C' language for Matrix Multiplication fails" Introspect the causes for its failure and write down the possible reasons for its failure.

3 Take any system (e.g. ATM system) and study its system specifications and report the various bugs.

4 Write the test cases for any known application (e.g. Banking application)

5 Create a test plan document for any application (e.g. Library Management System)

6 Study of Win Runner Testing Tool and its implementation

a) Win runner Testing Process and Win runner User Interface.

b) How Win Runner identifies GUI(Graphical User Interface) objects in an application and describes the two modes for organizing GUI map files.

c) How to record a test script and explains the basics of Test Script Language (TSL)

d) How to synchronize a test when the application responds slowly.

e) How to create a test that checks GUI objects and compare the behaviour of GUI objects in different versions of the sample application.

f) How to create and run a test that checks bitmaps in your application and run the test on different versions of the sample application and examine any differences, pixel by pixel.

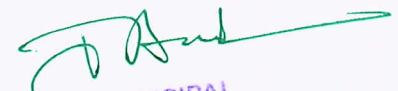
g) How to Create Data-Driven Tests which supports to run a single test on several sets of data from a data table.

h) How to read and check text found in GUI objects and bitmaps.

i) How to create a batch test that automatically runs the tests.

j) How to update the GUI object descriptions which in turn supports test scripts as the application changes.

7 Apply Win Runner testing tool implementation in any real time applications.


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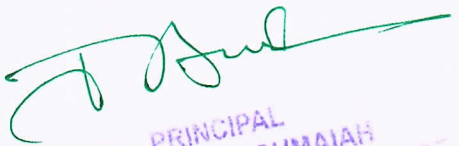
DATE: 8-7-2021

YEAR: III

SEMESTER : II

DATAWARE HOUSE AND MINING LAB
(External Lab Examination: 2020-21)

1. Demonstration of preprocessing on dataset student.arff
2. Demonstration of preprocessing on dataset labor.arff
3. Demonstration of Association rule process on dataset contactlenses.arff using apriori algorithm
4. Demonstration of Association rule process on dataset test.arff using apriori algorithm
5. Demonstration of classification rule process on dataset student.arff using j48 algorithm
6. Demonstration of classification rule process on dataset employee.arff using j48 algorithm
7. Demonstration of classification rule process on dataset employee.arff using id3 algorithm
8. Demonstration of classification rule process on dataset employee.arff using naïve bayes algorithm
9. Demonstration of clustering rule process on dataset iris.arff using simple k-means
10. Demonstration of clustering rule process on dataset student.arff using simple k- means.


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YEAR: II

DATE: 4-3-2021

SEM: I

DATA STRUCTURES THROUGH C++ LAB

(External Lab Examination: 2020-21)

Exercise -1 (Classes Objects)

Create a Distance class with: •feet and inches as data members •member function to input distance
•member function to output distance •member function to add two distance objects

1. Write a main function to create objects of DISTANCE class. Input two distances and output the sum.
2. Write a C++ Program to illustrate the use of Constructors and Destructors (use the above program.)
3. Write a program for illustrating function overloading in adding the distance between objects (use the above problem)

Exercise – 2 (Access)

Write a program for illustrating Access Specifiers public, private, protected

1. Write a program implementing Friend Function
2. Write a program to illustrate this pointer
3. Write a Program to illustrate pointer to a class

Exercise -3 (Operator Overloading)

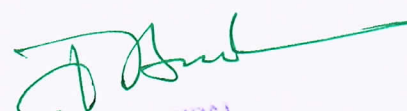
1. Write a program to Overload Unary, and Binary Operators as Member Function, and Non Member Function.
2. Unary operator as member function
3. Binary operator as non member function
4. Write a c ++ program to implement the overloading assignment = operator

Exercise -4 (Inheritance)

1. Write C++ Programs and incorporating various forms of Inheritance
i) Single Inheritance ii) Hierarchical Inheritance iii) Multiple Inheritance iv) Multi-level inheritance
v) Hybrid inheritance
2. Also illustrate the order of execution of constructors and destructors in inheritance

Exercise -5(Templates, Exception Handling)

1. a) Write a C++ Program to illustrate template class
2. b) Write a Program to illustrate member function templates
3. c) Write a Program for Exception Handling Divide by zero
4. d) Write a Program to rethrow an Exception


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Exercise -6 (Searching)

Write C program that use both recursive and non recursive functions to perform Linear search for a Key value in a given list.

b) Write C program that use both recursive and non recursive functions to perform Binary search for a Key value in a given list.

Exercise -7 (Sorting-I)

a) Write C program that implement Bubble sort, to sort a given list of integers in ascending order

b) Write C program that implement Quick sort, to sort a given list of integers in ascending order

c) Write C program that implement Insertion sort, to sort a given list of integers in ascending order

Exercise -8(Sorting-II)

a) Write C program that implement radix sort, to sort a given list of integers in ascending order

b) Write C program that implement merge sort, to sort a given list of integers in ascending order

Exercise -9(Singly Linked List)

a) Write a C program that uses functions to create a singly linked list

b) Write a C program that uses functions to perform insertion operation on a singly linked list

c) Write a C program that uses functions to perform deletion operation on a singly linked list

d) Write a C program to reverse elements of a single linked list.

Exercise -10(Queue)

a) Write C program that implement Queue (its operations) using arrays.

b) Write C program that implement Queue (its operations) using linked lists

Exercise -11(Stack)

a) Write C program that implement stack (its operations) using arrays

b) Write C program that implement stack (its operations) using Linked list

c) Write a C program that uses Stack operations to evaluate postfix expression

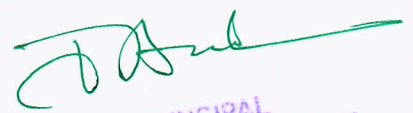
Exercise -12(Binary Search Tree)

a) Write a C program to Create a BST

b) Write a C program to insert a node into a BST.

c) Write a C program to delete a node from a BST.

d) Write a recursive C program for traversing a binary tree in preorder, inorder and postorder


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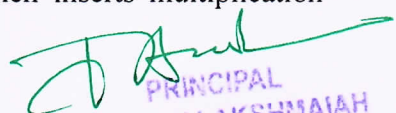
DATE: 5-3-2021

SEM: I

PYTHON PROGRAMMING LAB

(External Lab Examination: 2020-21)

- 1) Write a program that asks the user for a weight in kilograms and converts it to pounds. There are 2.2 pounds in a kilogram.
- 2) Write a program that asks the user to enter three numbers (use three separate input statements). Create variables called total and average that hold the sum and average of the three numbers and print out the values of total and average.
- 3) Write a program that uses a for loop to print the numbers 8, 11, 14, 17, 20, . . . , 83, 86, 89.
- 4) Write a program that asks the user for their name and how many times to print it. The program should print out the user's name the specified number of times.
- 5) Use a for loop to print a triangle like the one below. Allow the user to specify how high the triangle should be. * * * * *
- 6) Generate a random number between 1 and 10. Ask the user to guess the number and print a message based on whether they get it right or not.
- 7) Write a program that asks the user for two numbers and prints Close if the numbers are within .001 of each other and Not close otherwise.
- 8) Write a program that asks the user to enter a word and prints out whether that word contains any vowels.
- 9) Write a program that asks the user to enter two strings of the same length. The program should then check to see if the strings are of the same length. If they are not, the program should print an appropriate message and exit. If they are of the same length, the program should alternate the characters of the two strings. For example, if the user enters abcde and ABCDE the program should print out AaBbCcDdEe.
- 10) Write a program that asks the user for a large integer and inserts commas into it according to the standard American convention for commas in large numbers. For instance, if the user enters 1000000, the output should be 1,000,000.
- 11) In algebraic expressions, the symbol for multiplication is often left out, as in $3x+4y$ or $3(x+5)$. Computers prefer those expressions to include the multiplication symbol, like $3*x+4*y$ or $3*(x+5)$. Write a program that asks the user for an algebraic expression and then inserts multiplication symbols where appropriate.


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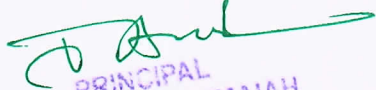
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- 12) Write a program that generates a list of 20 random numbers between 1 and 100.
 - (a) Print the list.
 - (b) Print the average of the elements in the list.
 - (c) Print the largest and smallest values in the list.
 - (d) Print the second largest and second smallest entries in the list
 - (e) Print how many even numbers are in the list.
- 13) Write a program that asks the user for an integer and creates a list that consists of the factors of that integer.
- 14) Write a program that generates 100 random integers that are either 0 or 1. Then find the longest run of zeros, the largest number of zeros in a row. For instance, the longest run of zeros in [1,0,1,1,0,0,0,0,1,0,0] is 4.
- 15) Write a program that removes any repeated items from a list so that each item appears at most once. For instance, the list [1,1,2,3,4,3,0,0] would become [1,2,3,4,0].
- 16) Write a program that asks the user to enter a length in feet. The program should then give the user the option to convert from feet into inches, yards, miles, millimeters, centimeters, meters, or kilometers. Say if the user enters a 1, then the program converts to inches, if they enter a 2, then the program converts to yards, etc. While this can be done with if statements, it is much shorter with lists and it is also easier to add new conversions if you use lists.
- 17) Write a function called sum_digits that is given an integer num and returns the sum of the digits of num.
- 18) Write a function called first_diff that is given two strings and returns the first location in which the strings differ. If the strings are identical, it should return -1.
- 19) Write a function called number_of_factors that takes an integer and returns how many factors the number has.
- 20) Write a function called is_sorted that is given a list and returns True if the list is sorted and False otherwise.
- 21) Write a function called root that is given a number x and an integer n and returns $x^{1/n}$. In the function definition, set the default value of n to 2.
- 22) Write a function called primes that is given a number n and returns a list of the first n primes. Let the default value of n be 100.
- 23) Write a function called merge that takes two already sorted lists of possibly different lengths, and merges them into a single sorted list.
 - (a) Do this using the sort method. (b) Do this without using the sort method.


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- 24) Write a program that asks the user for a word and finds all the smaller words that can be made from the letters of that word. The number of occurrences of a letter in a smaller word can't exceed the number of occurrences of the letter in the user's word.
- 25) Write a program that reads a file consisting of email addresses, each on its own line. Your program should print out a string consisting of those email addresses separated by semicolons.
- 26) Write a program that reads a list of temperatures from a file called temps.txt, converts those temperatures to Fahrenheit, and writes the results to a file called ftemps.txt.
- 27) Write a class called Product. The class should have fields called name, amount, and price, holding the product's name, the number of items of that product in stock, and the regular price of the product. There should be a method get_price that receives the number of items to be bought and returns a the cost of buying that many items, where the regular price is charged for orders of less than 10 items, a 10% discount is applied for orders of between 10 and 99 items, and a 20% discount is applied for orders of 100 or more items. There should also be a method called make_purchase that receives the number of items to be bought and decreases amount by that much.
- 28) Write a class called Time whose only field is a time in seconds. It should have a method called convert_to_minutes that returns a string of minutes and seconds formatted as in the following example: if seconds is 230, the method should return '5:50'. It should also have a method called convert_to_hours that returns a string of hours, minutes, and seconds formatted analogously to the previous method.
- 29) Write a class called Converter. The user will pass a length and a unit when declaring an object from the class—for example, c = Converter(9,'inches'). The possible units are inches, feet, yards, miles, kilometers, meters, centimeters, and millimeters. For each of these units there should be a method that returns the length converted into those units. For example, using the Converter object created above, the user could call c.feet() and should get 0.75 as the result.
- 30) Write a Python class to implement pow(x, n).
- 31) Write a Python class to reverse a string word by word.
- 32) Write a program that opens a file dialog that allows you to select a text file. The program then displays the contents of the file in a textbox.
- 33) Write a program to demonstrate Try/except/else.
- 34) Write a program to demonstrate try/finally and with/as.


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YEAR: II

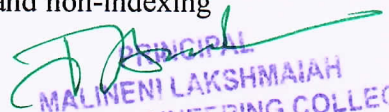
DATE: 6-7-2021

SEM: II

DATABASE MANAGEMENT SYSTEMS LAB

(External Lab Examination: 2020-21)

1. Creation, altering and dropping of tables and inserting rows into a table (use constraints while creating tables) examples using SELECT command.
2. Queries (along with sub Queries) using ANY, ALL, IN, EXISTS, NOTEXISTS, UNION, INTERSET, Constraints. Example:- Select the roll number and name of the student who secured fourth rank in the class.
3. Queries using Aggregate functions (COUNT, SUM, AVG, MAX and MIN), GROUP BY, HAVING and Creation and dropping of Views.
4. Queries using Conversion functions (to_char, to_number and to_date), string functions (Concatenation, lpad, rpad, ltrim, rtrim, lower, upper, initcap, length, substr and instr), date functions (Sysdate, next_day, add_months, last_day, months_between, least, greatest, trunc, round, to_char, to_date)
5. i. Create a simple PL/SQL program which includes declaration section, executable section and exception –Handling section (Ex. Student marks can be selected from the table and printed for those who secured first class and an exception can be raised if no records were found) ii. Insert data into student table and use COMMIT, ROLLBACK and SAVEPOINT in PL/SQL block.
6. Develop a program that includes the features NESTED IF, CASE and CASE expression. The program can be extended using the NULLIF and COALESCE functions.
7. Program development using WHILE LOOPS, numeric FOR LOOPS, nested loops using ERROR Handling, BUILT –IN Exceptions, USE defined Exceptions, RAISEAPPLICATION ERROR.
8. Programs development using creation of procedures, passing parameters IN and OUT of PROCEDURES.
9. Program development using creation of stored functions, invoke functions in SQL Statements and write complex functions.
10. Develop programs using features parameters in a CURSOR, FOR UPDATE CURSOR, WHERE CURRENT of clause and CURSOR variables.
11. Develop Programs using BEFORE and AFTER Triggers, Row and Statement Triggers and INSTEAD OF Triggers
12. Create a table and perform the search operation on table using indexing and non-indexing


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DATE: 7-7-2021

SEM: II

JAVA PROGRAMMING LAB

(External Lab Examination: 2020-21)

Exercise - 1 (Basics)

- Write a JAVA program to display default value of all primitive data type of JAVA
- Write a java program that display the roots of a quadratic equation $ax^2+bx=0$. Calculate the discriminate D and basing on value of D, describe the nature of root.
- Five Bikers Compete in a race such that they drive at a constant speed which may or may not be the same as the other. To qualify the race, the speed of a racer must be more than the average speed of all 5 racers. Take as input the speed of each racer and print back the speed of qualifying racers.

Exercise - 2 (Operations, Expressions, Control-flow, Strings)

- Write a JAVA program to search for an element in a given list of elements using binary search mechanism.
- Write a JAVA program to sort for an element in a given list of elements using bubble sort
- Write a JAVA program to sort for an element in a given list of elements using merge sort.
- Write a JAVA program using StringBuffer to delete, remove character.

Exercise - 3 (Class, Objects)

- Write a JAVA program to implement class mechanism. Create a class, methods and invoke them inside main method.
- Write a JAVA program to implement constructor.

Exercise - 4 (Methods)

- Write a JAVA program to implement constructor overloading.
- Write a JAVA program implement method overloading.

Exercise - 5 (Inheritance)

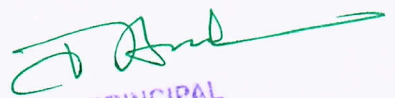
- Write a JAVA program to implement Single Inheritance
- Write a JAVA program to implement multi level Inheritance
- Write a java program for abstract class to find areas of different shapes

Exercise - 6 (Inheritance - Continued)

- Write a JAVA program give example for "super" keyword.
- Write a JAVA program to implement Interface. What kind of Inheritance can be achieved? R-19 Syllabus for C

Exercise - 7 (Exception)

- Write a JAVA program that describes exception handling mechanism
- Write a JAVA program Illustrating Multiple catch clauses


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Exercise – 8 (Runtime Polymorphism)

- Write a JAVA program that implements Runtime polymorphism
- Write a Case study on runtime polymorphism, inheritance that implements in above problem

Exercise – 9 (User defined Exception)

- Write a JAVA program for creation of Illustrating throw
- Write a JAVA program for creation of Illustrating finally
- Write a JAVA program for creation of Java Built-in Exceptions
- Write a JAVA program for creation of User Defined Exception

Exercise – 10 (Threads)

- Write a JAVA program that creates threads by extending Thread class .First thread display "Good Morning "every 1 sec, the second thread displays "Hello "every 2 seconds and the third display "Welcome" every 3 seconds ,(Repeat the same by implementing Runnable)
- Write a program illustrating isAlive and join ()
- Write a Program illustrating Daemon Threads.

Exercise - 11 (Threads continuity)

- Write a JAVA program Producer Consumer Problem
- Write a case study on thread Synchronization after solving the above producer consumer problem

Exercise – 12 (Packages)

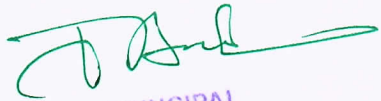
- Write a JAVA program illustrate class path
- Write a case study on including in class path in your os environment of your package.
- Write a JAVA program that import and use the defined your package in the previous Problem

Exercise - 13 (Applet)

- Write a JAVA program to paint like paint brush in applet.
- Write a JAVA program to display analog clock using Applet.
- Write a JAVA program to create different shapes and fill colors using Applet.

Exercise - 14 (Event Handling)

- Write a JAVA program that display the x and y position of the cursor movement using Mouse.
- Write a JAVA program that identifies key-up key-down event user entering text in a Applet.


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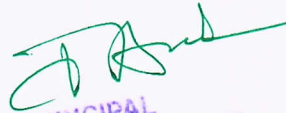
DATE: 8-7-2021

SEM: II

UNIX OPERATING SYSTEM LAB

(External Lab Examination: 2020-21)

- 1) a) Study of Unix/Linux general purpose utility command list: man, who, cat, cd, cp, ps, ls, mv, rm, mkdir, rmdir, echo, more, date, time, kill, history, chmod, chown, finger, pwd, cal, logout, shutdown.
b) Study of vi editor
c) Study of Bash shell, Bourne shell and C shell in Unix/Linux operating system
d) Study of Unix/Linux file system (tree structure)
e) Study of .bashrc, /etc/bashrc and Environment variables.
- 2) Write a C program that makes a copy of a file using standard I/O, and system calls
- 3) Write a C program to emulate the UNIX ls -l command.
- 4) Write a C program that illustrates how to execute two commands concurrently with a command pipe.
- 5) Simulate the following CPU scheduling algorithms:
(a) Round Robin (b) SJF (c) FCFS (d) Priority
- 6) Multiprogramming-Memory management-Implementation of fork (), wait (), exec() and exit (), System calls
- 7) Simulate the following:
a) Multiprogramming with a fixed number of tasks (MFT)
b) Multiprogramming with a variable number of tasks (MVT) 8) Simulate Bankers Algorithm for Dead Lock Avoidance
- 9) Simulate Bankers Algorithm for Dead Lock Prevention
- 10) Simulate the following page replacement algorithms: a) FIFO b) LRU c) LFU
- 11) Simulate the following File allocation strategies (a) Sequenced (b) Indexed (c) Linked
- 12) Write a C program that illustrates two processes communicating using shared memory
- 13) Write a C program to simulate producer and consumer problem using semaphores
- 14) Write C program to create a thread using pthreads library and let it run its function.
- 15) Write a C program to illustrate concurrent execution of threads using pthreads library.


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Department of Information Technology

MAX.MARKS:

YEAR: IV

DATE: 4-3-2021

SEM: I

Mobile Computing Lab

(External Lab Examination: 2020-21)

1. Write a J2ME program to show how to change the font size and colour.

2. Write a J2ME program which creates the following kind of menu.

* cut * copy * past * delete * select all * unselect all

3. Create a J2ME menu which has the following options (Event Handling):

· cut - can be on/off · copy - can be on/off

· paste - can be on/off

· delete - can be on/off

· select all - put all 4 options on

· unselect all - put all

4. Create a MIDP application, which draws a bar graph to the display. Data values can be given at int [] array. You can enter four data (integer) values to the input text field.

5. Create an MIDP application which examine, that a phone number, which a user has entered is in the given format (Input checking): * Area code should be one of the following: 040, 041, 050, 0400, 044 * There should 6-8 numbers in telephone number (+ area code)

6. Write a sample program to show how to make a SOCKET Connection from J2ME phone. This J2ME sample program shows how to how to make a SOCKET Connection from a J2ME Phone. Many a times there is a need to connect backend HTTP server from the J2ME application. Show how to make a SOCKET connection from the phone to port 80.

7. Login to HTTP Server from a J2ME Program. This J2ME sample program shows how to display a simple LOGIN SCREEN on the J2ME phone and how to authenticate to a HTTP server. Many J2ME applications for security reasons require the authentication of the user. This free J2ME sample program, shows how a J2ME application can do authentication to the backend server. Note: Use Apache Tomcat Server as Web Server and MySQL as Database Server.

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8. The following should be carried out with respect to the given set of application domains: (Assume that the Server is connected to the well maintained database of the given domain. Mobile Client is to be connected to the Server and fetch the required data value/information)

• Students Marks Enquiry • Town/City Movie Enquiry • Railway/Road/Air (For example PNR) Enquiry/Status • Sports (say, Cricket) Update • Town/City Weather Update • Public Exams (say Intermediate or SSC)/ Entrance (Say EAMCET) Results Enquiry Divide Student into Batches and suggest them to design database according to their domains and render information according the requests.

9. Write an Android application program that displays Hello World using Terminal.

10. Write an Android application program that displays Hello World using Eclipse.

11. Write an Android application program that accepts a name from the user and displays the hello name to the user in response as output using Eclipse.

12. Write an Android application program that demonstrates the following: (i) Linear Layout (ii) Relative Layout (iii) Table Layout (iv) Grid View layout

13. Write an Android application program that converts the temperature in Celsius to Fahrenheit.

14. Write an Android application program that demonstrates intent in mobile application development

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MAX.MARKS:

YEAR: IV

DATE: 5-3-2021

SEM: I

Cryptography and Network Security Lab

(External Lab Examination: 2020-21)

1. Breaking the Shift Cipher
2. Breaking the Mono-alphabetic Substitution Cipher
3. One-Time Pad and Perfect Secrecy
4. Message Authentication Codes
5. Cryptographic Hash Functions and Applications
6. Symmetric Key Encryption Standards (DES)
7. Symmetric Key Encryption Standards (AES)
8. Diffie-Hellman Key Establishment
9. Public-Key Cryptosystems (PKCSv1.5)
10. Digital Signatures

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MAX.MARKS:

YEAR: III

DATE: 4-3-2021

SEM: I

Advanced Java Programming Lab

(External Lab Examination: 2020-21)

1. Write a program to prompt the user for a hostname and then looks up the IP address for the hostname and displays the results.
2. Write a program to read the webpage from a website and display the contents of the webpage.
3. Write programs for TCP server and Client interaction as per given below.
 - i). A program to create TCP server to send a message to client. ii). A program to create TCP client to receive the message sent by the server.
4. Write programs for Datagram server and Client interaction as per given below.
 - i). A program to create Datagram server to send a message to client. ii). A program to create Datagram client to receive the message sent by the server
5. Write a program by using JDBC to execute a SQL query for a database and display the results.
6. Write a program by using JDBC to execute an update query without using Prepared Statement and display the results.
7. Write a program by using JDBC to execute an update query by using Prepared Statement and display the results.
8. Write a program to execute a stored procedure in the database by using Callable Statement and display the results.
9. Write a program to display a greeting message in the browser by using Http Servlet
10. Write a program to receive two numbers from a HTML form and display their sum in the browser by using Http Servlet.
11. Write a program to display a list of five websites in a HTML form and visit to the selected website by using Response redirection.
12. Write a program to store the user information into Cookies. Write another program to display the above stored information by retrieving from Cookies.

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13. Write a program in Java Beans to add a Button to the Bean and display the number of times the button has been clicked
14. Write a program for Java Bean with Simple property by using SimpleBeanInfo class.
15. Write a program for Java Bean with Indexed Property by using SimpleBeanInfo class.
16. Write a program to develop a Enterprise Java Bean of "Session Bean" type.

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MAX.MARKS:

YEAR: III

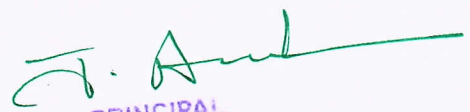
DATE: 5-3-2021

SEM: I

UNIX AND OPERATING SYSTEMS LAB

(External Lab Examination: 2020-21)

1. Simulate the following CPU scheduling algorithms
 - a) Round Robin b) SJF c) FCFS d) Priority
2. Multiprogramming-Memory management- Implementation of fork (), wait (), exec() and exit (), System calls
3. Simulate the following
 - a) Multiprogramming with a fixed number of tasks (MFT)
 - b) Multiprogramming with a variable number of tasks (MVT)
4. Simulate Bankers Algorithm for Dead Lock Avoidance
5. Simulate Bankers Algorithm for Dead Lock Prevention.
6. Simulate the following page replacement algorithms.
 - a) FIFO b) LRU c) LFU
7. Simulate the following File allocation strategies
 - a) Sequenced b) Indexed c) Linked
8. Basic Shell Commands Shell Programs:
9. Fibonacci Series
10. Designing Calculator
11. File Operations
12. Base conversion
13. Usage of cut and grep commands
14. Usage of user defined functions Administration


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15. Managing User Accounts
16. User Quota Management
17. Installation of RPM software and Zipping, tar
18. Configuring RAID
19. Configuring Web server

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MAX.MARKS:

YEAR: III

DATE: 6-3-2021

SEM: I

DATABASE MANAGEMENT SYSTEM LAB

(External Lab Examination: 2020-21)

1. Queries to facilitate acquaintance of Built-In Functions, String Functions, Numeric Functions, Date Functions and Conversion Functions.
2. Queries using operators in SQL
3. Queries to Retrieve and Change Data: Select, Insert, Delete, and Update
4. Queries using Group By, Order By, and Having Clauses
5. Queries on Controlling Data: Commit, Rollback, and Save point
6. Queries to Build Report in SQL *PLUS
7. Queries for Creating, Dropping, and Altering Tables, Views, and Constraints
8. Queries on Joins and Correlated Sub-Queries
9. Queries on Working with Index, Sequence, Synonym, Controlling Access, and Locking Rows for Update, Creating Password and Security features
10. Write a PL/SQL Code using Basic Variable, Anchored Declarations, and Usage of Assignment Operation
11. Write a PL/SQL Code Bind and Substitution Variables. Printing in PL/SQL
12. Write a PL/SQL block using SQL and Control Structures in PL/SQL
13. Write a PL/SQL Code using Cursors, Exceptions and Composite Data Types
14. Write a PL/SQL Code using Procedures, Functions, and Packages FORMS
15. Write a PL/SQL Code Creation of forms for any Information System such as Student Information System, Employee Information System etc. 18
16. Demonstration of database connectivity

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MAX.MARKS:

YEAR: III

DATE: 7-7-2021

SEM: II

WEB TECHNOLOGIES LAB

(External Lab Examination: 2020-21)

1) HOME PAGE:

The static home page must contain three **frames**.

Top frame: Logo and the college name and links to Home page, Login page, Registration page, Catalogue page and Cart page (the description of these pages will be given below).

Left frame: At least four links for navigation, which will display the catalogue of respective

2)login page

3) CATOLOGUE PAGE:

The catalogue page should contain the details of all the books available in the web site in a table.

The details should contain the following:

1. Snap shot of Cover Page.
2. Author Name.
3. Publisher.
4. Price.
5. Add to cart button.

4. REGISTRATION PAGE:

Create a “*registration form*” with the following fields

- 1) Name (Text field)
- 2) Password (password field)

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- 3) E-mail id (text field)
- 4) Phone number (text field)
- 5) Sex (radio button)
- 6) Date of birth (3 select boxes)
- 7) Languages known (check boxes – English, Telugu, Hindi, Tamil)
- 8) Address (text area)

5. Design a web page using CSS (Cascading Style Sheets) which includes the following:

- 1) Use different font, styles:

In the style definition you define how each selector should work (font, color etc.).

Then, in the body of your pages, you refer to these selectors to activate the styles

6. Write an XML file which will display the Book information which includes the following:

- 1) Title of the book
- 2) Author Name
- 3) ISBN number
- 4) Publisher name
- 5) Edition
- 6) Price
7. Write Ruby program reads a number and calculates the factorial value of it and prints the Same.
8. Write a Ruby program which counts number of lines in a text files using its regular Expressions facility.
9. Write a Ruby program that uses iterator to find out the length of a string.
10. Write simple Ruby programs that uses arrays in Ruby.

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11. Write programs which uses associative arrays concept of Ruby.
12. Write Ruby program which uses Math module to find area of a triangle.
13. Write Ruby program which uses tk module to display a window
14. Define complex class in Ruby and do write methods to carry operations on complex objects.
15. Write a program which illustrates the use of associative arrays in perl.
16. Write perl program takes set names along the command line and prints whether they are regular files or special files
17. Write a perl program to implement UNIX 'passed' program
18. An example perl program to connect to a MySQL database table and executing simple commands.
19. Example PHP program for cotactus page.
20. User Authentication:

Assume four users user1, user2, user3 and user4 having the passwords pwd1, pwd2, pwd3 and pwd4 respectively. Write a PHP for doing the following.

1. Create a Cookie and add these four user id's and passwords to this Cookie.
2. Read the user id and passwords entered in the Login form (week1) and authenticate with the values (user id and passwords) available in the cookies.

If he is a valid user (i.e., user-name and password match) you should welcome him by name (user-name) else you should display "You are not an authenticated user ".

Use init-parameters to do this.

21. Example PHP program for registering users of a website and login.
22. Install a database(Mysql or Oracle).

Create a table which should contain at least the following fields: name, password, email-id, phone number(these should hold the data from the registration form).

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Write a PHP program to connect to that database and extract data from the tables and display them. Experiment with various SQL queries.

Insert the details of the users who register with the web site, whenever a new user clicks the submit button in the registration page (week2).

23. Write a PHP which does the following job:

Insert the details of the 3 or 4 users who register with the web site (week9) by using registration form. Authenticate the user when he submits the login form using the user name and password from the database (similar to week8 instead of cookies).

24. Create tables in the database which contain the details of items (books in our case like Book name , Price, Quantity, Amount) of each category. Modify your catalogue page (week 2) in such a way that you should connect to the database and extract data from the tables and display them in the catalogue page using PHP

25. HTTP is a stateless protocol. Session is required to maintain the state.

The user may add some items to cart from the catalog page. He can check the cart page for the selected items. He may visit the catalogue again and select some more items. Here our interest is the selected items should be added to the old cart rather than a new cart. Multiple users can do the same thing at a time (i.e., from different systems in the LAN using the ip-address instead of local host). This can be achieved through the use of sessions. Every user will have his own session which will be created after his successful login to the website. When the user logs out his session should get invalidated (by using the method session. Invalidate ()).

Modify your catalogue and cart PHP pages to achieve the above mentioned functionality using sessions.

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MAX.MARKS:
YEAR: III

DATE: 8-7-2021
SEM: II

SOFTWARE TESTING LAB

(External Lab Examination: 2020-21)

1 Write programs in 'C' Language to demonstrate the working of the following constructs:

i) do...while ii) while....do iii) if...else iv) switch v) for

2 "A program written in 'C' language for Matrix Multiplication fails" Introspect the causes for its failure and write down the possible reasons for its failure.

3 Take any system (e.g. ATM system) and study its system specifications and report the various bugs.

4 Write the test cases for any known application (e.g. Banking application)

5 Create a test plan document for any application (e.g. Library Management System)

6 Study of Win Runner Testing Tool and its implementation

a) Win runner Testing Process and Win runner User Interface.

b) How Win Runner identifies GUI(Graphical User Interface) objects in an application and describes the two modes for organizing GUI map files.

c) How to record a test script and explains the basics of Test Script Language (TSL)

d) How to synchronize a test when the application responds slowly.

e) How to create a test that checks GUI objects and compare the behaviour of GUI objects in different versions of the sample application.

f) How to create and run a test that checks bitmaps in your application and run the test on different versions of the sample application and examine any differences, pixel by pixel.

g) How to Create Data-Driven Tests which supports to run a single test on several sets of data from a data table.

h) How to read and check text found in GUI objects and bitmaps.

i) How to create a batch test that automatically runs the tests.

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j) How to update the GUI object descriptions which in turn supports test scripts as the application changes.

7 Apply Win Runner testing tool implementation in any real time applications.

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MAX.MARKS:
YEAR: III

DATE: 7-7-2021
SEM: II

DATA MINING LAB

(External Lab Examination: 2020-21)

1. Demonstration of preprocessing on dataset student.arff
2. Demonstration of preprocessing on dataset labor.arff
3. Demonstration of Association rule process on dataset contactlenses.arff using apriori algorithm
4. Demonstration of Association rule process on dataset test.arff using apriori algorithm
5. Demonstration of classification rule process on dataset student.arff using j48 algorithm
6. Demonstration of classification rule process on dataset employee.arff using j48 algorithm
7. Demonstration of classification rule process on dataset employee.arff using id3 algorithm
8. Demonstration of classification rule process on dataset employee.arff using naïve bayes algorithm
9. Demonstration of clustering rule process on dataset iris.arff using simple k-means
10. Demonstration of clustering rule process on dataset student.arff using simple k- means.

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YEAR: II

DATE: 4-3-2021
SEM: I

DATA STRUCTURES THROUGH C++ LAB

(External Lab Examination: 2020-21)

Exercise -1 (Classes Objects) Create a Distance class with: •feet and inches as data members •member function to input distance •member function to output distance •member function to add two distance objects 1. Write a main function to create objects of DISTANCE class. Input two distances and output the sum.

2. Write a C++ Program to illustrate the use of Constructors and Destructors (use the above program.)

3. Write a program for illustrating function overloading in adding the distance between objects (use the above problem)

Exercise – 2 (Access) Write a program for illustrating Access Specifiers public, private, protected

1. Write a program implementing Friend Function

2. Write a program to illustrate this pointer

3. Write a Program to illustrate pointer to a class

Exercise -3 (Operator Overloading)

1. Write a program to Overload Unary, and Binary Operators as Member Function, and Non Member Function.

1. Unary operator as member function

2. Binary operator as non member function

3. Write a c ++ program to implement the overloading assignment = operator

Exercise -4 (Inheritance)

1. Write C++ Programs and incorporating various forms of Inheritance

i) Single Inheritance ii) Hierarchical Inheritanceiii) Multiple Inheritances iv) Multi-level inheritance

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v) Hybrid inheritance

2. Also illustrate the order of execution of constructors and destructors in inheritance

Exercise -5(Templates, Exception Handling)

1. a) Write a C++ Program to illustrate template class
2. b) Write a Program to illustrate member function templates
3. c) Write a Program for Exception Handling Divide by zero
4. d) Write a Program to rethrow an Exception

Exercise -6 (Searching)

Write C program that use both recursive and non recursive functions to perform Linear search for a Key value in a given list.

b) Write C program that use both recursive and non recursive functions to perform Binary search for a Key value in a given list.

Exercise -7 (Sorting-I)

- a) Write C program that implement Bubble sort, to sort a given list of integers in ascending order
- b) Write C program that implement Quick sort, to sort a given list of integers in ascending order
- c) Write C program that implement Insertion sort, to sort a given list of integers in ascending order

Exercise -8(Sorting-II)

- a) Write C program that implement radix sort, to sort a given list of integers in ascending order
- b) Write C program that implement merge sort, to sort a given list of integers in ascending order

Exercise -9(Singly Linked List)

- a) Write a C program that uses functions to create a singly linked list
- b) Write a C program that uses functions to perform insertion operation on a singly linked list
- c) Write a C program that uses functions to perform deletion operation on a singly linked list
- d) Write a C program to reverse elements of a single linked list.

Exercise -10(Queue)

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- a) Write C program that implement Queue (its operations) using arrays.
- b) Write C program that implement Queue (its operations) using linked lists

Exercise -11(Stack)

- a) Write C program that implement stack (its operations) using arrays
- b) Write C program that implement stack (its operations) using Linked list
- c) Write a C program that uses Stack operations to evaluate postfix expression

Exercise -12(Binary Search Tree)

- a) Write a C program to Create a BST
- b) Write a C program to insert a node into a BST.
- c) Write a C program to delete a node from a BST.
- d) Write a recursive C program for traversing a binary tree in preorder, inorder and postorder

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MAX.MARKS:

YEAR: II

DATE: 5-3-2021

SEM: I

Python Programming Lab

(External Lab Examination: 2020-21)

1 - Basics

- a) Running instructions in Interactive interpreter and a Python Script
- b) Write a program to purposefully raise Indentation Error and Correct it

2 - Operations

- a) Write a program to compute distance between two points taking input from the user (Pythagorean Theorem)
- b) Write a program add.py that takes 2 numbers as command line arguments and prints its sum.

3 -Control Flow

- a) Write a Program for checking whether the given number is a even number or not.
- b) Using a for loop, write a program that prints out the decimal equivalents of $1/2$, $1/3$, $1/4$, \dots , $1/10$
- c) Write a program using a for loop that loops over a sequence. What is sequence ?
- d) Write a program using a while loop that asks the user for a number, and prints a countdown from that number to zero.

4 - Control Flow - Continued

- a) Find the sum of all the primes below two million.
- b) Each new term in the Fibonacci sequence is generated by adding the previous two terms. By starting with 1 and 2, the first 10 terms will be:
- c) 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, ...
- d) By considering the terms in the Fibonacci sequence whose values do not exceed four million, find the sum of the even-valued terms.

5 – DS

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a) Write a program to count the numbers of characters in the string and store them in a dictionary data structure

b) Write a program to use split and join methods in the string and trace a birthday with a dictionary data structure.

6 DS - Continued

a) Write a program combine_lists that combines these lists into a dictionary.

b) Write a program to count frequency of characters in a given file. Can you use character frequency to tell whether the given file is a Python program file, C program file or a text file?

7 Files

a) Write a program to print each line of a file in reverse order.

b) Write a program to compute the number of characters, words and lines in a file.

8 Functions

a) Write a function ball_collide that takes two balls as parameters and computes if they are colliding. Your function should return a Boolean representing whether or not the balls are colliding. Hint: Represent a ball on a plane as a tuple of (x, y, r), r being the radius. If (distance between two balls centers) \leq (sum of their radii) then (they are colliding)

b) Find mean, median, mode for the given set of numbers in a list.

9 Functions - Continued

a) Write a function nearly_equal to test whether two strings are nearly equal. Two strings a and b are nearly equal when a can be generated by a single mutation on b.

b) Write a function dups to find all duplicates in the list. c) Write a function unique to find all the unique elements of a list.

10 - Functions - Problem Solving

a) Write a function cumulative_product to compute cumulative product of a list of numbers

b) Write a function reverse to reverse a list. Without using the reverse function

c) Write function to compute gcd, lcm of two numbers. Each function shouldn't exceed one line.

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11 - Multi-D Lists

- a) Write a program that defines a matrix and prints
- b) Write a program to perform addition of two square matrices
- c) Write a program to perform multiplication of two square matrices

12 - Modules

- a) Install packages requests, flask and explore them. using (pip)
- d) Write a script that imports requests and fetch content from the page. Eg. (Wiki)
- e) Write a simple script that serves a simple HTTP Response and a simple HTML Page

13-OOP

- a) Class variables and instance variable and illustration of the self variable
- i) Robot ii) ATM Machine

14- GUI, Graphics

- a) Write a GUI for an Expression Calculator using tk
- b) Write a program to implement the following figures using turtle

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MAX.MARKS:

YEAR: II

DATE: 7-7-2021

SEM: II

JAVA PROGRAMMING LAB

(External Lab Examination: 2020-21)

Exercise - 1 (Basics)

- a) Write a JAVA program to display default value of all primitive data type of JAVA
- b) Write a java program that display the roots of a quadratic equation $ax^2+bx=0$. Calculate the discriminate D and basing on value of D, describe the nature of root.
- c) Five Bikers Compete in a race such that they drive at a constant speed which may or may not be the same as the other. To qualify the race, the speed of a racer must be more than the average speed of all 5 racers. Take as input the speed of each racer and print back the speed of qualifying racers.

Exercise - 2 (Operations, Expressions, Control-flow, Strings)

- a) Write a JAVA program to search for an element in a given list of elements using binary search mechanism.
- b) Write a JAVA program to sort for an element in a given list of elements using bubble sort
- c) Write a JAVA program to sort for an element in a given list of elements using merge sort. d) Write a JAVA program using StringBuffer to delete, remove character.

Exercise - 3 (Class, Objects)

- a) Write a JAVA program to implement class mechanism. Create a class, methods and invoke them inside main method.
- b) Write a JAVA program to implement constructor.

Exercise - 4 (Methods)

- a) Write a JAVA program to implement constructor overloading.
- b) Write a JAVA program implement method overloading.

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Exercise - 5 (Inheritance)

- a) Write a JAVA program to implement Single Inheritance
- b) Write a JAVA program to implement multi level Inheritance
- c) Write a java program for abstract class to find areas of different shapes

Exercise - 6 (Inheritance - Continued)

- a) Write a JAVA program give example for "super" keyword.
- b) Write a JAVA program to implement Interface. What kind of Inheritance can be achieved? R-19 Syllabus for C

Exercise - 7 (Exception)

- a) Write a JAVA program that describes exception handling mechanism
- b) Write a JAVA program Illustrating Multiple catch clauses

Exercise – 8 (Runtime Polymorphism)

- a) Write a JAVA program that implements Runtime polymorphism
- b) Write a Case study on run time polymorphism, inheritance that implements in above problem

Exercise – 9 (User defined Exception)

- a) Write a JAVA program for creation of Illustrating throw
- b) Write a JAVA program for creation of Illustrating finally
- c) Write a JAVA program for creation of Java Built-in Exceptions
- d) Write a JAVA program for creation of User Defined Exception

Exercise – 10 (Threads)

- a) Write a JAVA program that creates threads by extending Thread class .First thread display "Good Morning "every 1 sec, the second thread displays "Hello "every 2 seconds and the third display "Welcome" every 3 seconds ,(Repeat the same by implementing Runnable)
- b) Write a program illustrating isAlive and join ()
- c) Write a Program illustrating Daemon Threads.

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Exercise - 11 (Threads continuity)

- a) Write a JAVA program Producer Consumer Problem
- b) Write a case study on thread Synchronization after solving the above producer consumer problem

Exercise – 12 (Packages)

- a) Write a JAVA program illustrate class path
- b) Write a case study on including in class path in your os environment of your package.
- c) Write a JAVA program that import and use the defined your package in the previous Problem

Exercise - 13 (Applet)

- a) Write a JAVA program to paint like paint brush in applet.
- b) Write a JAVA program to display analog clock using Applet.
- c) Write a JAVA program to create different shapes and fill colors using Applet.

Exercise - 14 (Event Handling)

- a) Write a JAVA program that display the x and y position of the cursor movement using Mouse.
- b) Write a JAVA program that identifies key-up key-down event user entering text in a Applet.

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MAX.MARKS:

YEAR: II

DATE: 8-7-2021

SEM: II

UNIX OPERATING SYSTEM LAB

(External Lab Examination: 2020-21)

- 1)a) Study of Unix/Linux general purpose utility command list: man, who, cat, cd, cp, ps, ls, mv, rm, mkdir, rmdir, echo, more, date, time, kill, history, chmod, chown, finger, pwd, cal, logout, shutdown.
- b) Study of vi editor
- c) Study of Bash shell, Bourne shell and C shell in Unix/Linux operating system
- d) Study of Unix/Linux file system (tree structure)
- e) Study of .bashrc, /etc/bashrc and Environment variables.
- 2) Write a C program that makes a copy of a file using standard I/O, and system calls
- 3) Write a C program to emulate the UNIX ls -l command.
- 4) Write a C program that illustrates how to execute two commands concurrently with a command pipe. Ex: - ls -l | sort
- 5) Simulate the following CPU scheduling algorithms:
(a) Round Robin (b) SJF (c) FCFS (d) Priority
- 6) Multiprogramming-Memory management-Implementation of fork (), wait (), exec() and exit (), System calls
- 7) Simulate the following:
a) Multiprogramming with a fixed number of tasks (MFT)
b) Multiprogramming with a variable number of tasks (MVT) 8) Simulate Bankers Algorithm for Dead Lock Avoidance
- 9) Simulate Bankers Algorithm for Dead Lock Prevention
- 10) Simulate the following page replacement algorithms:
a) FIFO b) LRU c) LFU
- 11) Simulate the following File allocation strategies (a) Sequenced (b) Indexed (c) Linked
- 12) Write a C program that illustrates two processes communicating using shared memory
- 13) Write a C program to simulate producer and consumer problem using semaphores
- 14) Write C program to create a thread using pthreads library and let it run its function.
- 15) Write a C program to illustrate concurrent execution of threads using pthreads library.

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SEM: II

DATABASE MANAGEMENT SYSTEMS LAB

(External Lab Examination: 2020-21)

1. Creation, altering and dropping of tables and inserting rows into a table (use constraints while creating tables) examples using SELECT command.
2. Queries (along with sub Queries) using ANY, ALL, IN, EXISTS, NOTEXISTS, UNION, INTERSET, Constraints. Example:- Select the roll number and name of the student who secured fourth rank in the class.
3. Queries using Aggregate functions (COUNT, SUM, AVG, MAX and MIN), GROUP BY, HAVING and Creation and dropping of Views.
4. Queries using Conversion functions (to_char, to_number and to_date), string functions (Concatenation, lpad, rpad, ltrim, rtrim, lower, upper, initcap, length, substr and instr), date functions (Sysdate, next_day, add_months, last_day, months_between, least, greatest, trunc, round, to_char, to_date)
5. i. Create a simple PL/SQL program which includes declaration section, executable section and exception –Handling section (Ex. Student marks can be selected from the table and printed for those who secured first class and an exception can be raised if no records were found) ii. Insert data into student table and use COMMIT, ROLLBACK and SAVEPOINT in PL/SQL block.
6. Develop a program that includes the features NESTED IF, CASE and CASE expression. The program can be extended using the NULLIF and COALESCE functions.
7. Program development using WHILE LOOPS, numeric FOR LOOPS, nested loops using ERROR Handling, BUILT –IN Exceptions, USE defined Exceptions, RAISEAPPLICATION ERROR.
8. Programs development using creation of procedures, passing parameters IN and OUT of PROCEDURES.
9. Program development using creation of stored functions, invoke functions in SQL Statements and write complex functions.
10. Develop programs using features parameters in a CURSOR, FOR UPDATE CURSOR, WHERE CURRENT of clause and CURSOR variables.

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11. Develop Programs using BEFORE and AFTER Triggers, Row and Statement Triggers and Instead of triggers
12. Create a table and perform the search operation on table using indexing and non-indexing

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Fri, Oct 25, 2019 at 4:26 PM

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Note:

- Mail the soft copy to de@vignanuniversity.org
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To
The Dean Evaluation,
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Vadlamudi.

Dear Sir,

I'm glad to be appointed as Question paper setter for your University for II B.Tech 1st Semester. Please find the enclosed documents as per the University guidelines.

Thanking you,

Yours sincerely,

Dr. A. Srikrishna Chaitanya,
Professor of Mathematics,
M.L.W.E.C.

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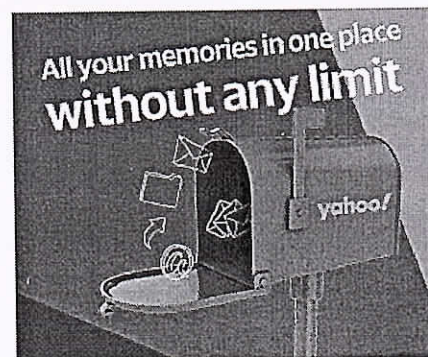
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To: askc_7@yahoo.com
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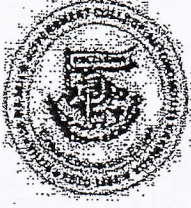
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Examination Cell

From
Dr. N. SREENIVAS, M.Sc., Ph.D.
Controller of Examinations
P.R. Govt. College (Autonomous)
KAKINADA-533 001

To
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Question Paper Setter Appointment Letter

Dear Sir/Madam,

**Sub: P.R. Govt. College (Autonomous), Kakinada-II/IV/VI
Semester End-Examinations – MARCH-2018**

You are requested to set the following Question Paper(s).

S. No.	Subject	Sem.	Medium	Max. Marks	No., of Sets
1	Communication Skills	II	EM	60	1

Please study the “Instructions to the Question Paper Setter” before setting the paper. Syllabi and model question paper of the above are enclosed here with. Kindly return them along with the Question Paper(s) on or before 3rd February, 2018 by Registered Post to the Controller of Examinations, P.R. Govt. College (Autonomous), Kakinada. Please keep the material in the respective covers and seal them using gum.

Place: KAKINADA
January, 2018

Controller of Examinations

For Any Quarries: Examination Cell - Land Line No. 0884-2363375

Encl: Instructions, Syllabi & Model Question Paper(s), Covers etc.

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