

A.M.A.L COLLEGE - MID EXAMINATIONS

III - B.COM - RURAL AND FARM CREDIT

1. What is Rural credit? Explain its classification.

(ಗ್ರಾಮೀಣ ಕ್ರೆಡಿಟ್ ಅನುಗುಣವೇ? దాని వర్గీకరణను వివరించండి)

2. Explain the Meaning, concepts, features and objectives of SHGs.

SHG ల అర్థము, భావన, లక్షణాలు మరియు లక్ష్యాలను వివరించండి.

3. Describe about the functioning and performance of NABARD

జాతీయ ప్రాచీన గ్రామీణాభివృద్ధి బ్యాంకు (NABARD) స్థాపన, నిర్వహణ మరియు ధ్యేయాలను వివరించండి

Time: $1\frac{1}{2}$ hrs

Answer any five questions

5X6 = 30 Marks

Find the equation of the plane through $(4, 4, 0)$ and perpendicular to the planes $x+2y+2z=5$ and $3x+3y+2z=8=0$ చలాలకు లంబంగా ఉండే $(4, 4, 0)$ గుండా ఉండే తల సమీకరణం కనుక్కోండి.

2. A variable plane is at a constant distance $3p$ from the origin and meets the axes in A, B, C . Show that the locus of the centroid of the $\triangle ABC$ is $x^2+y^2+z^2=p^2$ ఓకేరం నుండి దూరం $3p$ ఉన్న తల వలన ఏర్పడే త్రిభుజం $\triangle ABC$ యొక్క కేంద్రబిందువు ఓకేరం నుండి దూరం p ఉంటుంది. A, B, C లపై ఉండే తల సమీకరణం $x^2+y^2+z^2=p^2$ గా ఉంటుంది.
3. Find the equations of the planes through the intersection of the planes $x+3y+6z=0$ and $3x-y-4z=0$ such that the perpendicular distance of each from the origin is unity. $x+3y+6z=0, 3x-y-4z=0$ చలాల ఖండిన రేఖ గుండా పోయే తలల సమీకరణాలు 1 unit దూరమునకు ఉండే తల సమీకరణాలు కనుక్కోండి.
4. Find the bisecting plane of the acute angle between the planes $3x-2y+6z+2=0$ and $-2x+y-2z-2=0$ చలాల మధ్య గల లఘూకూటము యొక్క సమద్విఖండన తలను కనుక్కోండి.
5. Find the image of the point $(2, -1, 3)$ in the plane $3x-2y+z=9$ $3x-2y+z=9$ చలాలకు $(2, -1, 3)$ బిందువు ప్రతిబింబం కనుక్కోండి.
6. prove that the lines $\frac{x-1}{2} = \frac{y-2}{3} = \frac{z-3}{4}$; $\frac{x-2}{3} = \frac{y-3}{4} = \frac{z-4}{5}$ are coplanar. Also find their point of intersection and plane containing the lines. $\frac{x-1}{2} = \frac{y-2}{3} = \frac{z-3}{4}$; $\frac{x-2}{3} = \frac{y-3}{4} = \frac{z-4}{5}$ రేఖలు సమలంబరముగా ఉంటాయి. మరల వాటి ఖండిన బిందువును, రేఖలను కలిగిన తలను సమీకరణము కనుక్కోండి.
7. Find the length and equation of the line of S.D between the lines $\frac{x}{1} = \frac{y}{2} = \frac{z}{3}$ and $x+y+2z-3=0 = 2x+3y+3z-4$ రేఖల మధ్య జ్యేష్ఠము కొరకు మరియు జ్యేష్ఠము దూర రేఖ సమీకరణము కనుక్కోండి.
8. Examine the nature of intersection of the planes $2x+3y-z-2=0$, $3x+3y+z-4=0$, $x-y+2z-5=0$ చలాల ఖండినము పరీక్షించండి.

A.M.A.L.COLLEGE, ANAKAPALLE
B.SC(MPC) DEGREE EXAMINATION
IInd Semester ; PHYSICS ,Paper -II

Max:30 marks
Time:1 1/2 hrs

Section -A (2x5=10)

ANSWER ANY TWO OF THE FOLLOWING

1. Explain the principle of optical fiber
2. What is holography? Write the application of holography?
3. What is chromatic aberration? how is this defect eliminated in an achromatic doublet?

Section -B (2X10=20)

ANSWER ANY TWO OF THE FOLLOWING

4. What is chromatic aberration? obtain an expression for chromatic aberration of a lens. Derive the condition for achromatism when two lenses are in (i) contact (ii) separated by some distance
5. What is a laser? Explain the working of He-Ne laser.
6. Discuss the modes step and graded index fibers and their structures

A.M.A.L.COLLEGE, ANAKAPALLE
B.SC(MPC) DEGREE EXAMINATION
IInd Semester ; PHYSICS ,Paper -II

Max:30 marks
Time:1 1/2 hrs

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4. What is chromatic aberration? obtain an expression for chromatic aberration of a lens. Derive the condition for achromatism when two lenses are in (i) contact (ii) separated by some distance
5. What is a laser? Explain the working of He-Ne laser.
6. Discuss the modes step and graded index fibers and their structures

Answer any TWO of the following Questions.

1. L.S. of Cone in Lycopodium (దీక్షా పాడియం (పాతపాతం) సాధారణ నిర్మాణం)
2. General characters of pteridophyta. (దీక్షా పాడియం సాధారణ లక్షణాలు.)
3. T.S. of Pinus needle (పైనస్ సూది పక్కం దీక్షా పాడియం)
4. Evolved characters of gymnosperms. (దీక్షా పాడియం పరిణామం చెందిన లక్షణాలు)

Section - B (2x10 = 20 Marks)

Answer any TWO of the following Questions.

5. With suitable diagrams discuss the Anatomy of stem in Lycopodium. (దీక్షా పాడియం యొక్క గాంధం యొక్క నిర్మాణం గురించి చిత్రాలతో చర్చించండి.)
6. General Characteristics of Gymnosperms. (దీక్షా పాడియం సాధారణ లక్షణాలు)
7. Describe the Male and Female reproductive structure of Cycas. (సైకస్ యొక్క పురుష మరియు స్త్రీ ప్రత్యుత్పత్తి నిర్మాణాలను వివరించండి.)

AMAL College, Anakapalli

Sem-II, 1st mid Examinations, November-2021.

SUBJECT :- Chemistry

Max. Marks - 30M

Time : 1:30 hrs

I) Answer all the questions

2 x 10 = 20M

- ① (A) Explain the molecular orbital theory. Write the molecular orbital energy diagrams of O_2 , NO and CO
అణు ఆర్బిటల్ సిద్ధాంతం ను వివరించుము. O_2 , NO , CO క్రమంగా శక్తి పటాలను వ్రాయుము.

(Or)

- ② (B) Explain Langmuir's adsorption isotherm. Write the applications of adsorption. లాంగ్ముర్ సమీకరణాన్ని వివరించుము. అణువుల యొక్క అనువర్తనాలను వ్రాయుము.

- ③ (A) Discuss methods for the preparation of alkanes and Explain their Chemical properties. ఆల్కేన్ల తయారీ, రసాయన లక్షణాలను వివరించుము.

(Or)

- ③ (B) Explain Bayer Strain theory, Explain Stability of Cyclohexane Conformations by drawing energy profile diagram. బేయర్ స్ట్రెయిన్ సిద్ధాంతం ను వివరించుము. సైక్లోహెక్సేన్ యొక్క వివిధ స్థితిల స్థిరత్వం ను శక్తి పటం ద్వారా వివరించుము.

(II) Answer all the questions

2 x 5 = 10M

- ③ Explain the Structure of CF_3 by Valency bond theory. CF_3 యొక్క నిర్మాణం ను వలెన్సీ బండ్ సిద్ధాంతం ద్వారా వివరించుము.

- ④ Write different Conformations of n-butane. Explain their relative Stability. n-బ్యూటేన్ యొక్క వివిధ సాధ్యమయ్యే రూపాలను వ్రాసి వాటి యొక్క స్థిరత్వం ను వివరించుము.

- ⑤ Write a note on Tindal effect & Brownian motion. టిండాల్ ప్రభావం, బ్రౌన్ యన్ చలనంల గుర్తు లివ్వవచ్చు ప్రయోగాలు.

— : — All the Best — : —

**A.M.A.L COLLEGE
ANAKAPALLE
B. VOCATIONAL COURSE
AGRICULTURE
INTRODUCTION TO ENTOMOLOGY
(Credits 4+2=6)**

Mid Term examination

Time: 1hr 30mts

Maximum: 30marks

SECTION - A

Answer any two (2) questions

2X10 = 20 marks

1. Write about the reasons for insect dominance?
2. Write in detail about different types of mouth parts found in insects?
3. a. Write about different cuticular appendages in insects?
b. Describe insect antenna and explain different types of antenna?
4. Explain about excretory system in an insect?

SECTION - B

Answer any two (2) questions

2X5 = 10 marks

1. Write about digestive system of an insect?
2. What is moulting and describe the process of moulting?
3. Write about the structure of an insect leg and explain different types of legs?
4. What are the body regions of an insect and describe them?

A.M.A.L DEGREE COLLEGE
ANAKAPALLI

COMPUTER SCIENCE (DS With c) MID-EXAM -2021 1st B.Sc [MEC's

i.ANSWER ANY TWO OF FOLLOWING QUESTIONS : 2*10=20

- 1) What is Linked List and Types of Linked List?
- 2) Explain about QUEUES? Types of QUEUES?
- 3) What is ADT ? Explain it?

ii. i.ANSWER THE FOLLOWING QUESTIONS : 2*5=10

- 4) what is BUBBLE Sort and given an example?
- 5) what is Stack? Features of a Stack ?

A.M.A.L COLLEGE
ANAKAPALLE
B. VOCATIONAL COURSE
AGRICULTURE
INTRODUCTION TO PLANT PATHOLOGY
(Credits 4+2=6)

Mid Term examination

Time: 1hr 30mts

Maximum: 30 marks

SECTION - A

Answer any two (2) questions

2X10 = 20 marks

1. Write in detail about the classification of fungi?
2. a. What is fungi and explain its somatic structures?
b. Explain about fungal thalli and its modifications?
3. a. What are different plant pathogenic organisms?
b. Explain about general characteristics of fungi?
4. a. Write about importance, scope and objectives of plant pathology?
b. Explain about general characteristics of bacteria?

SECTION - B

Answer any two (2) questions

2X5 = 10 marks

1. Write down the classification of plant diseases?
2. Write about the important plant pathogenic bacteria and symptoms of bacterial diseases?
3. Write about the reproduction in fungi?
4. Describe about nomenclature and rules of nomenclature

Time: 1 1/2 hrs

Max Marks: 30

Answer any FIVE Questions.

5x6=30 Marks.

- Let $V(F)$ be a vector space. A non empty set $W \subseteq V$ the necessary and sufficient condition for W to be a subspace of V is $\alpha, \beta \in F$ and $d, \beta \in V \Rightarrow \alpha d + \beta e \in W$.
 $V(F)$ పేరిట సబ్స్పేస్‌గా ఉండేందుకు W పేరిట V కి శూన్యతలకు సంబంధించిన అవసరమైన మరియు సరిపోయే షరతులు $\alpha, \beta \in F$ మరియు $d, \beta \in V$ అయితే $\alpha d + \beta e \in W$ అయి ఉండాలి.
- The union of two subspaces is a subspace if and only if one is contained in the other.
రెండు ఉపస్పేస్‌లు W_1, W_2 ల సబ్స్పేస్‌లుగా ఉండాలి మరియు $W_1 \subseteq W_2$ లేదా $W_2 \subseteq W_1$ అయితే వాటి యొక్క యూనియన్ సబ్స్పేస్ అవుతుంది.
- $L(S)$ is a subspace of $V(F)$
 $V(F)$ కు $L(S)$ ఉపస్పేస్ అవుతుంది.
- Show that the system of vectors $(1, 3, 2), (1, -7, -8), (2, 1, -1)$ of $V_3(\mathbb{R})$ is linearly dependent.
 $(1, 3, 2), (1, -7, -8), (2, 1, -1)$ వలె $V_3(\mathbb{R})$ లో ఉన్న వекటర్‌లు రేఖీయతలపై ఉన్నాయి.
- Show that $(2, 2, 1), (2, 1, 1), (2, 1, 0)$ form a basis for $\mathbb{R}^3$.
 $(2, 2, 1), (2, 1, 1), (2, 1, 0)$ వలె $\mathbb{R}^3$ కు బేసిస్ అవుతుంది.
- Let $V(F)$ be a finite dimensional vector space. Then any two bases of V have the same number of elements.
 $V(F)$ పరిమిత పరిమాణ సబ్స్పేస్ అయితే $V(F)$ యొక్క ఏదైనా రెండు బేసిస్‌లు ఒకే సంఖ్యలో సభ్యులను కలిగి ఉంటాయి.
- Let W_1, W_2 be two subspaces of a finite dimensional vector space $V(F)$. Then $\dim(W_1 + W_2) = \dim W_1 + \dim W_2 - \dim(W_1 \cap W_2)$
 W_1, W_2 ల పరిమిత పరిమాణ సబ్స్పేస్‌లుగా ఉండాలి $V(F)$ కు రెండు ఉపస్పేస్‌లుగా ఉండాలి.
 $\dim(W_1 + W_2) = \dim W_1 + \dim W_2 - \dim(W_1 \cap W_2)$
- Let W be a subspace of a finite dimensional vector space $V(F)$, then $\dim V/W = \dim V - \dim W$
 $V(F)$ కు W ఉపస్పేస్ అయితే $\dim V/W = \dim V - \dim W$ అవుతుంది.

Mid Exam B.com First year
BANKING THEORY & PRACTICE

Marks = 30

Time = 1 1/2 hrs

2 x 5 = 10M

I Answer any two of the following

a) central banks vs commercial banks

b) credit creation

c) Real Time Gross Settlements (RTGS)

d) Mixed Banking (మిశ్ర బ్యాంకింగ్)

II Answer all the questions

2 x 10 = 20M

1 a) Define commercial bank. what are its functions.

వాణిజ్య బ్యాంకులు ఏమంటే? వాణిజ్య బ్యాంకుల ముఖ్య విధులను వివరించండి.

(B)
b) Explain the role of commercial banks in developing countries like India.

భారతదేశం వంటి అభివృద్ధి చెందుతున్న దేశాలలో వాణిజ్య బ్యాంకుల పాత్రను వివరించండి.

2 a) Explain Branch Banking & unit banking.

బ్రాంచ్ బ్యాంకింగ్ మరియు యూనిట్ బ్యాంకింగ్ లను వివరించండి.

b) Describe the innovations in commercial banking in India.

భారత బ్యాంకింగ్‌లోని నవరచనలను లేదా బ్యాంకింగ్ కర్మశాస్త్రాల నూతన భావాలను వివరించండి.

A.M.A.L.COLLEGE, ANAKAPALLE
B.SC(MPC) DEGREE EXAMINATION
5th Semester ; PHYSICS ,Paper -V

Max:30 marks
Time:1 1/2 hrs

Section -A (2x5=10)

ANSWER ANY **TWO** OF THE FOLLOWING

1. Explain Mechanism of pnp Transistor
2. a. Convert Binary to Decimal (i) $(111011)_2$ (ii) $(10101)_2$
b. Binary addition (i) $(11101)_2 + (11111)_2$ (ii) $(101011)_2 + (110000)_2$
3. What is AND gate? explain with truth table?

Section -B (2X10=20)

ANSWER ANY **TWO** OF THE FOLLOWING

4. Explain common emitter characteristics and Explain Transistor as an amplifier?
5. Explain full adder and Half adder
6. What is Demorgan's theorem and explain?

A.M.A.L.COLLEGE, ANAKAPALLE
B.SC(MPC) DEGREE EXAMINATION
5th Semester ; PHYSICS ,Paper -V

Max:30 marks
Time:1 1/2 hrs

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Section -B (2X10=20)

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A.M.A.L.COLLEGE, Anakapalli

I MID Examination (2021-22)

Semester - V

III B.Sc Physics paper - VI

Time: 1hr 30min.

Max marks : 30

SECTION --A

Answer any two questions.

2 x 10 = 20

1. What is Raman Effect? Describe experimental arrangement to study Raman Effect.

రామన్ ఫలితం అంటే ఏమిటి? ప్రయోగపూర్వకంగా రామన్ ఫలితాన్ని వివరించండి .

2. Explain various Quantum Numbers associated with the Vector Atom Model.

పరమాణు సదిశా నమూనాలోని వివిధ క్వాంటం సంఖ్యలను విపులంగా వివరించండి

3. Describe de-Broglie Hypothesis and Derive the expression for Wavelength of matter waves for different particles

డి బ్రోగ్లీ సిద్ధాంతాన్ని వివరించండి, వివిధ కణాలు యొక్క ద్రవ్య తరంగాల తరంగదైర్ఘ్యం నికే సమీకరణాన్ని ఉత్పాదించండి

SECTION --B

Answer any two questions

2 x 5 =10

1. What are L-S and J-J Couplings? Explain.

L-S మరియు J-J సంధానములను గురించి వివరించండి

2. Explain the Properties of Matter Waves

3. State & Explain Heisenberg Uncertainty Principle for P and x. Extend it to energy & time

హై సన్ బర్గ్ అనిశ్చితత్వం నియమాన్ని తెల్పి, శక్తి మరియు కాలము మధ్య అనిశ్చితత్వం తెలపండి .

AMAL COLLEGE, ANAKAPELLI
MID EXAM ,

physics

III BSc (V semester) - Paper- V

I) Answer ANY TWO Questions.... $2 \times 10 = 20M$

- 1) గాస్ నియమాన్ని రాసి నిరూపించండి ?
- 2) విద్యుత్ పొటెన్షియల్ అనగానేమి ? ఏకరీతి ఆవేశం గోళం యొక్క బాహ్య బిందువు వద్ద , గోళం తలం మీద , గోళం అంతర బిందువు వద్ద విద్యుత్ పొటెన్షియల్ కనుక్కోండి?
- 3) విద్యుత్ ప్రేరణ ను నిర్వచించి ? పొడవైన తిన్నని వాహకం వలన ఏర్పడే విద్యుత్ ప్రేరణ ను కనుక్కోండి?

Answer ANY TWO Questions.... $2 \times 5 = 10m$

- 4) బయట్ సావర్ట్ నియమాన్ని రాయండి?
- 5) హాల్ ఫలితాన్ని వ్రాసి అనువర్తనాలు తెలపండి?
- 6) RC వలయాన్నే గీసి వలయం లో ఏర్పడే విద్యుత్తుకు సమీకరణం రాబట్టండి?

**A.M.A.L DEGREE COLLEGE
ANAKAPALLI**

ELECTRONICS (MP&A PAPER-5) MID-EXAM -2021 3RD B.Sc [MEC's]

i.ANSWER ANY TWO OF FOLLOWING QUESTIONS : 2*10=20

- 1) Explain the block diagram of micro processor ?
- 2) Explain the interfacing stepper motor with 8085 micro processor?
- 3) Explain the addressing modes of 8085 micro processor?

ii. i.ANSWER THE ANY TWO QUESTIONS : 2*5=10

- 4) Explain the push and pope instructions?
- 5) Write the difference between memory mapped i/o and i/o mapped i/o?
- 6) write the applications of microprocessor?

Ques: 2. a) Write the applications of microprocessor?

A.M.A.L college, Anakapalli;

III B.Sc Degree Examination

Vth Semester, Zoology

Paper - V Animal Biotechnology

TIME: 1 1/2 Hrs

Max: 30 Marks

Section - A (2x5 = 10M)

I Answer any two of the following questions.

1. DNA polymerases | DNA ಪೊಲಿಮರೇಸ್
2. puc plasmid vector | puc ಪ್ಲಾಸ್ಮಿಡ್ ವೆಕ್ಟರ್
3. Restriction enzymes | ರೆಸ್ಟ್ರಿಕ್ಷನ್ ಎಂಜೈಮ್‌ಗಳು

Section - B (2x10 = 20M)

II Answer any two of the following questions.

4. what is PCR and elucidate the principle in detail?
P.C.R. ಏನು? ಮತ್ತು ಅದರ ತತ್ವವನ್ನು ವಿವರಿಸಿ.
5. Define vectors Explain different types of vectors in biotechnology?
ವೆಕ್ಟರ್‌ನು ಏನು? ಜೀವ ತಂತ್ರಜ್ಞಾನದಲ್ಲಿ ವಿವಿಧ ವೆಕ್ಟರ್‌ಗಳನ್ನು ವಿವರಿಸಿ.
6. Explain the role of the type II restriction endonucleases in gene cloning
Type II ರೆಸ್ಟ್ರಿಕ್ಷನ್ ಎಂಜೈಮ್‌ಗಳ ಪಾತ್ರವನ್ನು ಜೀನ್ ಕ್ಲೋನಿಂಗ್‌ನಲ್ಲಿ ವಿವರಿಸಿ.



ANDHRA UNIVERSITY

BSC - GRADING SYSTEM DEGREE EXAMINATION - AUG/SEP, 2021

AWARD LIST FOR INTERNAL ASSESSMENT

Centre Name

: 201-A M A L COLLEGE, ANAKAPALLI

Subject

: PART-II MATHEMATICS-I (DIFFERENTIAL EQUATIONS PROBLEM SOLVING SESSIONS)

SEMESTER : 1

Max Marks : 25 M

S.No.	Regd.No.	Name	Marks Obtained	In Words
1	720120105001	ADARI MOHAN ARAVIND	18	Eighteen
2	720120105002	ALLA SRAVANTHI	21	Twenty-One
3	720120105003	ALLADA ANJI	17	Seventeen
4	720120105004	ALLU KISHORE KUMAR	22	Twenty-Two
5	720120105005	AMALAKANTI VASU	21	Twenty-One
6	720120105006	ARIGA CHAITHANYA KIRAN	20	Twenty
7	720120105007	ASISSU VAMSI	19	Nineteen
8	720120105008	BADAPU HARISH	20	Twenty
9	720120105009	BADAPU KUMARASWAMY	21	Twenty-One
10	720120105010	BADAPU LAXMANKUMAR	18	Eighteen
11	720120105011	BADDI TEJA	19	Nineteen
12	720120105012	BAKI KALYAN	20	Twenty
13	720120105013	BANDARU HEMANTHI	18	Eighteen
14	720120105014	BANDARU KRISHNA MURTHY	17	Seventeen
15	720120105015	BANDARU VEERA BABU	18	Eighteen
16	720120105016	BARNIKALA SAI KUMAR	21	Twenty-One
17	720120105017	BARNIKULA DHANAJI	20	Twenty
18	720120105018	BATHINA POORNA SAI	18	Eighteen
19	720120105019	BHUMIREDDY CHANDARRAO	21	Twenty-One
20	720120105020	BODASINGI MANIKANTA	22	Twenty-Two
21	720120105021	BODDU DHANA LAKSHMI	18	Eighteen
22	720120105022	BODDU SATISH	19	Nineteen
23	720120105023	BOTTA VIJAYA RAJU	21	Twenty-One
24	720120105024	BUDIREDDI KARTHIK	17	Seventeen
25	720120105025	BURADA JAGADEESH	20	Twenty

INTERNAL SIGNATURE

D.JAGADEESWARA RAO

Aadhar Card No : 835785289971

College Seal

PRINCIPAL SIGNATURE

DR. G. JAYA BABU

Aadhar Card No : 473901343272



ANDHRA UNIVERSITY

BSC- GRADING SYSTEM DEGREE EXAMINATION - MARCH, 2021

AWARD LIST FOR INTERNAL ASSESSMENT

Centre Name

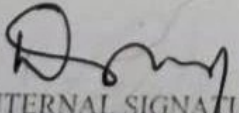
: 201-A M A L COLLEGE, VISAKHAPATNAM

Subject

: MATHEMATICS-III(Abstract Algebra)

SEMESTER : 3 Max Marks : 25 M

S.No.	Regd.No.	Name	Marks Obtained	In Words
1	719120105179	ANGULURU PRATHYUSHA	23	Twenty-Three
2	719120105180	BHEESETTI BHAVANI SANKAR	24	Twenty-Four
3	719120105182	BONDA SAI SIVA	24	Twenty-Four
4	719120105184	CHINTHALA ATCHIRAJU	21	Twenty-One
5	719120105185	CHUKKA MURALI MANOHAR	15	Fifteen
6	719120105186	DEVARAPU VENKATA APPAJI YASWANTH KUMAR	15	Fifteen
7	719120105187	DIVILI BHARGAVI	23	Twenty-Three
8	719120105188	GANDI GUNAVATHI	23	Twenty-Three
9	719120105189	GOGADA SUTHESH	22	Twenty-Two
10	719120105190	GORLE LEELA SANKAR	22	Twenty-Two
11	719120105191	KARRI SAI MANIKANTA CHARAN	23	Twenty-Three
12	719120105192	KOTHAPALLI INDU	24	Twenty-Four
13	719120105193	LEKKALA HIRANYA HARI	23	Twenty-Three
14	719120105194	LEKKALA RAJU	22	Twenty-Two
15	719120105195	MAJJI ROHITH SAI KUMAR	25	Twenty-Five
16	719120105196	MANDIBI RAMBABU	24	Twenty-Four
17	719120105197	MANDRU AARON	25	Twenty-Five
18	719120105201	MUTCHAKARLA BHAVANI	22	Twenty-Two
19	719120105202	NAGIREDDY NARENDRA	24	Twenty-Four
20	719120105204	PEYYALA RAJESH	20	Twenty
21	719120105206	REPAKA YESWANTH	23	Twenty-Three
22	719120105211	YEKA BHANULATHA	25	Twenty-Five
23	719120105212	THOTA GANA SATYA SURYA	20	Twenty
24	719130405447	MOLLI SHYAM SURYA	21	Twenty-One

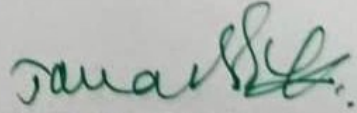

INTERNAL SIGNATURE

D.W.J.VICTOR

Aadhar Card No : 649800101071

College Seal




PRINCIPAL SIGNATURE

DR. G. JAYA BABU

Aadhar Card No : 473901343272



ANDHRA UNIVERSITY

BSC - GRADING SYSTEM DEGREE EXAMINATION - AUG/SEP, 2021

AWARD LIST FOR INTERNAL ASSESSMENT

Centre Name

: 201-A M A I. COLLEGE ANAKAPALLE

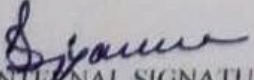
Subject

: Part-II MATHEMATICS (Real Analysis)

SEMESTER : 4

Max Marks : 25 M

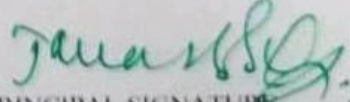
S.No.	Regd. No.	Name	Marks Obtained	In Words
1	719120105001	ADAPA UMAMAHESWARI	23	Twenty-Three
2	719120105007	ANNAM SAI CHAITANYA	25	Twenty-Five
3	719120105008	APPIKONDA DURGA PRASAD	15	Fifteen
4	719120105010	BADE GAYATRI	21	Twenty-One
5	719120105011	BADRAKSHI MOHAN	17	Seventeen
6	719120105012	BALUJIPALLI JAGADEESH	20	Twenty
7	719120105014	BARNIKANA VENKATESH	23	Twenty-Three
8	719120105015	BAYAPUREDDY PRADEEP	22	Twenty-Two
9	719120105016	BHIESETTY TEJA KUMAR	24	Twenty-Four
10	719120105017	BIHIMAVARAPU PRABHAVATHI	25	Twenty-Five
11	719120105019	BODDA UDAY MANIKANTA	20	Twenty
12	719120105022	BODDU GOVINDA RAO	21	Twenty-One
13	719120105023	BOMMALI VAMSI	19	Nineteen
14	719120105024	BUDI CHINABABU	15	Fifteen
15	719120105025	BUDIREDDI NIKHIL	18	Eighteen
16	719120105027	BUGATHA SHANKAR	24	Twenty-Four
17	719120105028	CHEEPURUPALLI CHANDRAKALA	22	Twenty-Two
18	719120105029	CHINTAKAYALA NAGARAJU	21	Twenty-One
19	719120105031	CHINTHALA GANGABABU	25	Twenty-Five
20	719120105032	CHODAPALLI DURGA RAMA LAKSHMI	23	Twenty-Three
21	719120105034	DANDI SIVA NARESH	20	Twenty
22	719120105035	DASARI ABHISEKH	21	Twenty-One
23	719120105039	DOGGA SIVAKUMAR	20	Twenty
24	719120105041	DUNNA SANDHYA	20	Twenty
25	719120105043	GADAM DIVAKAR	25	Twenty-Five


INTERNAL SIGNATURE

J.SAMBRAJYAM

Aadhar Card No : 816711188175

College Seal


PRINCIPAL SIGNATURE

DR. G. JAYA BABU

Aadhar Card No : 940272
ANAKAPALLE



ANDHRA UNIVERSITY



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BSC - GRADING SYSTEM DEGREE EXAMINATION - AUG/SEP, 2021

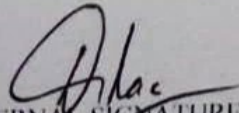
AWARD LIST FOR INTERNAL ASSESSMENT

Centre Name : 201-A M.A.L. COLLEGE, ANAKAPALLE

Subject : PART-II MATHEMATICS-I (DIFFERENTIAL EQUATIONS PROBLEM SOLVING SESSIONS)

SEMESTER : 1 Max Marks : 25 M

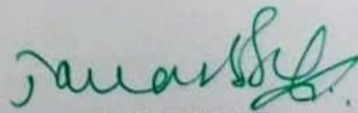
S.No.	Regd.No.	Name	Marks Obtained	In Words
1	720120105175	ALAMANDA UMA	18	Eighteen
2	720120105176	BANDI SATYA SAI GANESH	21	Twenty-One
3	720120105177	BANTU JAYA KRISHNA	17	Seventeen
4	720120105178	BARNIKANA MANI KUMAR	18	Eighteen
5	720120105179	CHALLAPUREDDI CHANDRA SEKHAR	19	Nineteen
6	720120105180	CHIBROLU KUSHAN PRASAD	20	Twenty
7	720120105181	DANIMIREDDI MAHESH	21	Twenty-One
8	720120105182	DIGUMARTHY KESAVA	18	Eighteen
9	720120105183	DWARAPUREDDI ANNAPURNA	20	Twenty
10	720120105184	GEDDAM PURNACHANDU	21	Twenty-One
11	720120105185	GONTHINA KESAVA DURGA	17	Seventeen
12	720120105186	GORLE ARUNA	20	Twenty
13	720120105187	GORLE SAI KUMARI	21	Twenty-One
14	720120105188	GOTTAPU RAMAKRISHNA	18	Eighteen
15	720120105189	INTI CHAITANYA ROHITH	21	Twenty-One
16	720120105190	KANDRAKOTA SIRISHA	18	Eighteen
17	720120105191	KANDREGULA RESHMA	19	Nineteen
18	720120105192	KATTA VAMSI	20	Twenty
19	720120105193	KODURU PADMAJA	21	Twenty-One
20	720120105194	KOLAGANA VENKATA VARALAKSHMI	22	Twenty-Two
21	720120105195	KOMARA JAGADEESH	20	Twenty
22	720120105196	KONA SUNITHA	18	Eighteen
23	720120105197	KUNDURU GIRI VARA PRASAD	19	Nineteen
24	720120105198	MALLESWARAPU SWATHI	17	Seventeen
25	720120105199	MOLLI GANAPATHI KUMAR	18	Eighteen


INTERNAL SIGNATURE

D. JAGADEESWARA RAO

Aadhar Card No : 835785289971

College Seal


PRINCIPAL SIGNATURE

DR. G. JAYA BABU

A.M.A.L. COLLEGE
ANAKAPALLE
Aadhar Card No : 473001343272



ANDHRA UNIVERSITY

BSC- GRADING SYSTEM DEGREE EXAMINATION - AUG/SEP, 2021

AWARD LIST FOR INTERNAL ASSESSMENT

Centre Name : 201-A M A L COLLEGE, ANAKAPALLI

Subject : MATHEMATICS (NUMERICAL ANALYSIS)

SEMESTER : 6 Max Marks : 25 M

S.No.	Regd.No.	Name	Marks Obtained	In Words
1	716120105075	NADUPURI SRINUVASARAO	15	Fifteen
2	718120105002	ANNAM JAGAN KUMAR	18	Eighteen
3	718120105003	BADE VINOD	21	Twenty-One
4	718120105004	BAIPUREDDY NANI	19	Nineteen
5	718120105006	BANDARU ANUSHA	15	Fifteen
6	718120105009	BANGARU TRINADHI	25	Twenty-Five
7	718120105010	BARLA BHANU BABU	25	Twenty-Five
8	718120105011	BASA RAJ KUMAR	18	Eighteen
9	718120105012	BATTINA GUNASHAKER	16	Sixteen
10	718120105014	BERA MANIDEPAK	25	Twenty-Five
11	718120105015	BHEEMARASETTI YASWANTH KUMAR	18	Eighteen
12	718120105016	BHEEMIREDDI MAHESWARA RAO	25	Twenty-Five
13	718120105017	BOBBILI BALA MANIKANTA	23	Twenty-Three
14	718120105018	BODA SINGI HARI PRASAD	21	Twenty-One
15	718120105019	BODDA LAKSHMANESWARA PAVAN KUMAR	25	Twenty-Five
16	718120105021	CHADARAPU AMMATHIALLI NAIDU	18	Eighteen
17	718120105022	CHANDANALA DIVAKAR	24	Twenty-Four
18	718120105025	CHINNI PADMA	25	Twenty-Five
19	718120105027	CHITIKILA SURENDRA	25	Twenty-Five
20	718120105029	CHODIPALLI ATCHUTARAO	18	Eighteen
21	718120105030	DAMMU GANESH	20	Twenty
22	718120105031	GAGANAM MANIKANTA	25	Twenty-Five
23	718120105035	GARAGA UDAY	25	Twenty-Five
24	718120105036	GODE SIVA SYAM PRASAD	23	Twenty-Three
25	718120105037	GOLAGANI GANGARAJU	18	Eighteen

J. Sambrajam

INTERNAL SIGNATURE

J. SAMBRAJYAM

Aadhar Card No : 816711188175

College Seal

Dr. G. Jaya Babu

PRINCIPAL SIGNATURE

DR. G. JAYA BABU

Aadhar Card No : 473901343272

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ANDHRA UNIVERSITY

BSC- GRADING SYSTEM DEGREE EXAMINATION - AUG/SEP, 2021

AWARD LIST FOR INTERNAL ASSESSMENT

Centre Name

: 201-A M A L COLLEGE, ANAKAPALLI

Subject

: Part-II MATHEMATICS (Real Analysis)

SEMESTER : 4

Max Marks : 25 M

S.No.	Regd.No.	Name	Marks Obtained	In Words
1	719120105179	ANGULURI PRATHYUSHA	23	Twenty-Three
2	719120105180	BHILSETHI BHAVANI SANKAR	17	Seventeen
3	719120105182	BONDA SAI SIVA	24	Twenty-Four
4	719120105184	CHINTHALA ATCHIRAJU	25	Twenty-Five
5	719120105185	CHUKKA MURALI MANOHAR	15	Fifteen
6	719120105186	DEVARAJU VENKATA APPAJI YASWANTH KUMAR	15	Fifteen
7	719120105187	DIVILI BHARGAVI	25	Twenty-Five
8	719120105188	GANDI GUNAVATHI	23	Twenty-Three
9	719120105189	GOGADA SUTHESI	25	Twenty-Five
10	719120105190	GORLE LEELA SANKAR	23	Twenty-Three
11	719120105191	KARRI SAI MANIKANTA CHARAN	19	Nineteen
12	719120105192	KOTHAPALLI INDU	22	Twenty-Two
13	719120105193	LEKKALA HIRANYA HARI	25	Twenty-Five
14	719120105194	LEKKALA RAJU	20	Twenty
15	719120105195	MAJJI ROHITH SAI KUMAR	25	Twenty-Five
16	719120105196	MANDIBI RAMBABU	25	Twenty-Five
17	719120105197	MANDRU AARON	17	Seventeen
18	719120105201	MUTCHAKARLA BHAVANI	25	Twenty-Five
19	719120105202	NAGIREDDY NARENDRA	24	Twenty-Four
20	719120105204	PEYYALA RAJESH	20	Twenty
21	719120105206	REPAKA YESWANTHI	23	Twenty-Three
22	719120105210	VARA HEMANTH KUMAR	15	Fifteen
23	719120105211	YEKA BHANULATHA	25	Twenty-Five
24	719120105212	THOTA GANA SATYA SURYA	25	Twenty-Five
25	719130405447	MOLLI SHYAM SURYA	24	Twenty-Four

J. Sambraajyam

INTERNAL SIGNATURE

J. SAMBRAJYAM

College Seal

Dr. G. Jaya Babu

PRINCIPAL SIGNATURE

DR. G. JAYA BABU

Aadhar Card No : 816711188175

Aadhar Card No : 473901343272

A.M.A.L. COLLEGE, ANAKAPALLE
NOTICE/CIRCULAR

Mid examinations of the semester-II & V for Ist and 3rd degree students, Schedule from 10-11-2021 to 12-11-2021
Time Table is given below.

[Signature]
Principal

S.No	Date	Ist year/Semester - II		IInd year/Semester - V	
		Fore Noon 10 to 11.30 A.M	After Noon 2 to 3.30 P.M	Fore Noon 10 to 11.30 A.M	After Noon 2 to 3.30 P.M
1	10/11/2021	English	Sanskrit	Mat/Bot/CB	Mat/Bot/CG
2	11/11/2021	Mat/Bot/BE	Phy/Zoo Elec/F All	Phy/Zoo Elec/GST	Phy/Zoo Elec/CA
3	12/11/2021	Chem/Comp Banking	ICT	Che/Comp RF	Che/Comp

[Signature]
PRINCIPAL
A.M.A.L. COLLEGE
ANAKAPALLE

[Handwritten notes]
T.B. com A
Shardul
11/11/21

[Handwritten notes]
11/11/21
A.M.A.L. COLLEGE
ANAKAPALLE

ఎ.ఎమ్.ఎ.ఎల్.డిగ్రీ కళాశాల, అనకాపల్లి, విశాఖపట్నం.

డిగ్రీ 3వ సెమిస్టర్

ఫస్ట్ మిడ్

తెలుగు

సమయం: 1:30 గం

మార్కులు - 30

గమనిక:- సమాధానాలు వరుస క్రమంలో రాయండి.

ఈ క్రింది రెండింటికీ సమాధానాలు రాయండి.

2x5=10

విభాగం - ఎ

1. విద్యావళి గురించి రాయండి ?
2. తెలుగు వారి ముంగిట సంక్రాంతి ?
3. రూపకం - లక్ష్య లక్షణాలను రాయండి ?
4. చంపకమాల లక్ష్య లక్షణాలను రాయండి ?

ఈ క్రింది ప్రశ్నలకు సమాధానాలు రాయండి

2x10=20

విభాగం - బి

1. (అ) వామన అవతారం సారాంశం రాయండి ?

లేదా

(ఆ) శాలివాహన విజయాన్ని గురించి తెలపండి

2. (అ) కుసుమ ధర్మన్న హరిజనులను ప్రభోదించిన తీరు ?

లేదా

(ఆ) తెలుగు భాష మాధుర్యాన్ని తెలిపి, సాహిత్య నైశిష్ట్యం తెలపండి ?

NOTICE/CIRCULAR

Principal

ANAKAPALLE

Principal
A.M.A.L. COLLEGE
ANAKAPALLE

i.ANSWER ANY TWO OF FOLLOWING QUESTIONS : $2 \times 10 = 20$

1) perform the 1s,2s,9s,10s compliments for given numbers
1001,00101,2000,2020?

2) Explain logic gates with truth tables?

3) Explain the 8 to 3 encoder?

ii. i.ANSWER THE FOLLOWING QUESTIONS : $2 \times 5 = 10$

4) Write about master slave JK flipflop?

5) Write about PLA?

i.ANSWER ANY TWO OF FOLLOWING QUESTIONS : $2 \times 10 = 20$

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5) Write about PLA?

i.ANSWER ANY TWO OF FOLLOWING QUESTIONS : 2*10=20

- 1) What is array and explain types of arrays with examples?
- 2) Explain Inheritance concept with examples?
- 3) What is constructors and explain types of constructors with examples?

ii. i.ANSWER THE FOLLOWING QUESTIONS : 2*5=10

- 4) what is vector and give an example?
 - 5) what is over loading and over riding give an example?
-

i.ANSWER ANY TWO OF FOLLOWING QUESTIONS : 2*10=20

- 1) What is array and explain types of arrays with examples?
- 2) Explain Inheritance concept with examples?
- 3) What is constructors and explain types of constructors with examples?

ii. i.ANSWER THE FOLLOWING QUESTIONS : 2*5=10

- 4) what is vector and give an example?
 - 5) what is over loading and give an example?
- *****

SECOND DEGREE MID SEMESTER EXAMINATION

ENGLISH

Max. Marks. 30

TIME: 1 1/2 hours

I Answer any ONE of the following in about 75 words.

1x5 = 5

a. In the essay 'Shyness My Shield' how many instances of his shyness does Gandhi describe? Discuss

b. What does Genevieve Bell have to say regarding ubiquitous computing?

II Answer any ONE of the following in about 75 words. 1x5 = 5

a. What has the speaker learnt in the poem 'Once upon a Time' Discuss.

b. Discuss central idea of the poem 'Digging'

III Answer any ONE of the following in about 75 words 1x5 = 5

a. Each character in the Interpreter of Maladies has a distorted way of seeing the others. Discuss.

b. Examine the mother-daughter relationship in 'The Beloved Charitoer'

IV Answer any ONE of the following in about 75 words 1x5 = 5

a. Consider Kanyasulkam as a social satire.

b. Sketch the character of Giriam.

V Expand ONE of the following into a paragraph 5

a. A bird in hand is worth two in the bush.

b. The pen is mightier than the sword.

VI Brainstorm one of the following and show it in a diagram. 5 (PTO)

a) college Annual Day Celebrations. b) Stress Management.

Time - 1½ hrs

Answer any FIVE questions

5x6 = 30 Marks

1. Show that the set $G = \{x | x = 2^a 3^b \text{ and } a, b \in \mathbb{Z}\}$ is a group under multiplication.
 $G = \{x | x = 2^a 3^b \text{ మరియు } a, b \in \mathbb{Z}\}$ సమితి గుణగణ సమకాలము ద్వారా ఒక సమూహము అని నిరూపించండి.
2. Let G be a group. For $a, b \in G$, $(ab)^{-1} = b^{-1}a^{-1}$.
 G ఒక సమూహము అనుకుందాం. $a, b \in G$ కు $(ab)^{-1} = b^{-1}a^{-1}$.
3. If H_1 and H_2 are subgroups of a group G , then show that $H_1 H_2$ is a subgroup iff either $H_1 \subseteq H_2$ or $H_2 \subseteq H_1$.
 G ఒక సమూహము అయితే H_1 మరియు H_2 ఉపసమూహాలు. $H_1 H_2$ సమూహము అయితే $H_1 \subseteq H_2$ లేదా $H_2 \subseteq H_1$ అయి ఉండాలి.
4. State and prove Lagrange's Theorem.
 లాగ్రాంజ్ సిద్ధాంతము ప్రాసి నిరూపించండి.
5. The necessary and sufficient condition for a homomorphism of a group G onto a group G' with kernel K to be an isomorphism of G into G' is that $K = \{e\}$.
 G నుండి G' కు నిర్వచించబడిన సంగ్రహ సమరూపణ G నుండి G' కు ఐసోమోర్ఫిజం అయి ఉండటానికి అవసరమైన మరియు అవసరమైన షరతు $K = \{e\}$, ఇక్కడ $K = \text{kernel}$.
6. State and prove Fundamental Theorem of Homomorphism.
 సమరూపణ మూల సిద్ధాంతము ప్రాసి నిరూపించండి.
7. A subgroup H of a group G is a normal subgroup of G iff each left coset of H in G is right coset of H in G .
 G లో H ఒక సమూహము అయితే H ఒక సాధారణ సమూహము అయితే G లో H యొక్క ప్రతి ఎడమ సమకాలము ఒక కుడి సమకాలము.
8. State and prove CAYLEY'S THEOREM.
 కేలీ సిద్ధాంతము ప్రాసి నిరూపించండి.

Time: 1 1/2 hrs

Answer any Five Questions:

5x6=30 marks

1. By Transforming into triple integral, evaluate $\iiint_S (x^3 dy dz + x^2 y dz dx + x^2 z dx dy)$ where S is the closed surface consisting of the cylinder $x^2 + y^2 = a^2$ and the circular discs $z=0$ and $z=b$.
2. If $\vec{F} = (2x^2 - 3z)\vec{i} - 2xy\vec{j} - 4xz\vec{k}$ then evaluate $\int_V \text{div } \vec{F} dv$ where V is the closed region bounded by the planes $x=0, y=0, z=0$ and $2x+2y+2z=4$.
3. If $\vec{F} = 4xz\vec{i} - y^2\vec{j} + yz\vec{k}$ find $\int_S \vec{F} \cdot \vec{n} ds$ by divergence theorem where S is the surface of the cube by $x=0, x=1, y=0, y=1, z=0, z=1$.
4. verify Green's theorem in the plane for $\oint_C (3x^2 - 8y^2) dx + (4y - 6xy) dy$ where C is the region bounded by $y = \sqrt{x}$ and $y = x^2$.
5. Evaluate by Green's theorem, $\oint_C (y - \sin x) dx + \cos x dy$ where C is the triangle by the lines $x=0, x=\pi/2, \pi y = 2x$.
6. Evaluate by Green's theorem $\oint_C (x^2 - \cos y) dx + (y + \sin x) dy$ where C is the rectangle with vertices $(0,0), (\pi,0), (\pi,1)$ and $(0,1)$.
7. If $\vec{F} = y\vec{i} + (x - 2xz)\vec{j} - xy\vec{k}$ Evaluate $\int_S (\nabla \times \vec{F}) \cdot \vec{n} ds$ where S is the surface of the sphere $x^2 + y^2 + z^2 = a^2$ above the xy -plane.
8. verify Stokes theorem for $\vec{F} = -y^3\vec{i} + x^3\vec{j}$, where S is the circular disc $x^2 + y^2 \leq 1, z=0$.

AMAL College, Anakapalle
MID - I Examination
Mathematics, III B.Sc semester - V
Paper - VI (Linear Algebra)

Time - $1\frac{1}{2}$ hrs.

Max. Marks - 30M

Answer any FIVE Questions

$5 \times 6 = 30M$.

1. Show that $(1, 3, 2), (1, -7, -8), (2, 1, -1)$ of $V_3(\mathbb{R})$ is linearly dependent.
(1, 3, 2), (1, -7, -8), (2, 1, -1) సదిశలు $V_3(\mathbb{R})$ లో రుజువు చేయండి.
2. If W_1 and W_2 are sub-spaces of a finite dimensional vector space $V(F)$, then $\dim(W_1 + W_2) = \dim W_1 + \dim W_2 - \dim(W_1 \cap W_2)$
ఏకమిత ప్రదేశ F పై $V(F)$ పై W_1, W_2 ఉప-వికల్పాలు అయితే $\dim(W_1 + W_2) = \dim W_1 + \dim W_2 - \dim(W_1 \cap W_2)$ నిరూపించండి.
3. State and prove Rank-Nullity Theorem
ర్యాంక్-నల్టీటీ సిద్ధాంతము ప్రాసి నిరూపించండి
4. If $T: U \rightarrow V$ is a linear transformation, then $R(T)$ is a sub-space of V
 $T: U \rightarrow V$ రుజువు చేయండి, V లో $R(T)$ ఉప-వికల్పమని నిరూపించండి
5. Find the Rank of $A = \begin{bmatrix} -1 & -2 & -3 \\ 3 & 4 & 5 \\ 4 & 5 & 6 \end{bmatrix}$
 $A = \begin{bmatrix} -1 & -2 & -3 \\ 3 & 4 & 5 \\ 4 & 5 & 6 \end{bmatrix}$ మ్యాట్రిక్స్ ర్యాంక్ కనుగొనండి
6. State and prove Cayley - Hamilton Theorem
కేలీ-హామిల్టన్ సిద్ధాంతము ప్రాసి నిరూపించండి
7. State and prove Schwarz's inequality
స్కవర్జ్ అసమానతను ప్రాసి నిరూపించండి
8. Given $B = \{(3, 4, 0), (2, 1, -1), (-2, 1, 3)\}$ is a basis of $\mathbb{R}^3$, find an orthonormal basis of inner product space $\mathbb{R}^n$ using by Gram - Schmidt orthogonalization.
సదిశాంతరాలు $\mathbb{R}^3(\mathbb{R})$ లో ఇవ్వబడిన $B = \{(3, 4, 0), (2, 1, -1), (-2, 1, 3)\}$ నుండి గ్రామ్-స్కవర్జ్ లాంటి కరణ పద్ధతిని ఉపయోగించి ఒక లాంటి లాంటి సదిశాంతరాలను నిర్మించండి

i.ANSWER ANY TWO OF FOLLOWING QUESTIONS : 2*10=20

- 1) Explain the block diagram of electronic communication system?
- 2) Explain the amplitude modulation with frequency spectrum signals?
- 3) Explain the modulation index for phase and frequency modulation?

ii. i.ANSWER THE FOLLOWING QUESTIONS : 1*10=10

- 4) Explain the pulse width modulation?
- 5) Explain the super heterodyne transmitter?

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i.ANSWER ANY TWO OF FOLLOWING QUESTIONS : $2*10=20$

- 1) Draw and explain block diagram of 8085 M.P?
- 2) Explain addressing mode of 8085?
- 3) Explain the interfacing the stepper motor with 8085 M.P?

ii. i.ANSWER THE FOLLOWING QUESTIONS : $1*10=10$

- 4) Explain the 3*8 decoder?
- 5) Explain the instructions set of 8085?

.....

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AMAL COLLEGE, ANAKAPELLI , Degree 3rd year, MID Term Examination - Feb-21
semester-v paper -VI. PHYSICS

1. Answer the following any two questions .

2×5=10m.

1. Explain L-S and J-J coupling schemes.

L-S మరియు J-J సంధానలు గురించి వ్రాయండి?

2. Explain Stokes and anti Stokes lines ?

స్టోక్ మరియు విరుద్ధ స్టోక్స్ రేఖలు గురించి రాయండి?

3. Explain de-broglie hypothesis?

ద్రవ్య తరంగాలకు సంబంధించి డిబ్రాగ్లీ సిద్ధాంతమును తెలుపుము.

4. Define phase velocity and group velocity? తరంగ వేగము మరియు సమూహ వేగములను

నిర్వచించుము?

2×10=20M

II Answer the following any two questions

5. Describe Davisson and germer experiment on electron diffraction. Discuss the results of the experiment.

ఎలక్ట్రానుల తరంగ స్వభావమును ప్రదర్శించిన డేవిసన్ గెర్మర్ ప్రయోగమును వర్ణించుము?

6. Describe the Stern gerlach experiment and indicate the importance of the results obtained?

స్టెర్న్ గెర్లాక్ ప్రయోగంను వివరించుము?

7. What is Raman Effect ? describe an experimental setup to study Raman effect give the theory.

రామన్ ఫలితం అనగా ఏమి? ద్రవంలో రామన్ ఫలితంను పరిశీలించే ప్రయోగ అమరికను వివరించుము.

p-v

i.ANSWER ANY TWO OF FOLLOWING QUESTIONS : 2*10=20

- 1) Explain CONSTRAINS in SQL ?
- 2) Explain Joins in SQL?
- 3) Explain operators in SQL?

ii. i.ANSWER THE FOLLOWING QUESTIONS : 2*5=10

- 4) Explain views?
 - 5) Explain TCL commands?
-

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- 1) Explain CONSTRAINS in SQL ?
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-

III BOTANY PAPER V FIFTH SEMESTER

me: 1hr 30m

Max. Marks: 30

SECTION - A (2 x 5 = 10 Marks)

Answer any '2' of the following questions

1. Mutagens - ఉత్పరివర్తనాలు
2. Plant Introduction - మొక్కల పరిచయం
3. Objectives of Plant breeding - సత్వ ప్రజనన ఉద్దేశ్యాలు
4. RFLP

SECTION 'B' (2 x 10 = 20 Marks)

Answer any two of the following questions

5. Write about the role of mutations in crop improvement.
సత్వ లక్షణ వృద్ధిలో ఉత్పరివర్తనాల పాత్రను వివరించండి.

6. What are somaclonal variations? Explain their role in crop improvement.
సమాక్షాంక వైవిధ్యాలు ఏమిటి? సత్వ లక్షణ వృద్ధిలో వాటి పాత్రను వివరించండి.

7. Write about procedure, Advantages and Limitations of selection as a plant breeding method

సత్వ ప్రజననలో 'ఎకలక్షణ' - విధానము, ప్రయోజనాలు మరియు పరిమితులను వివరించండి.

P-VI

i. ANSWER ANY TWO OF FOLLOWING QUESTIONS : 2*10=20

- 1) Explain WATERFALLS model?
- 2) Explain RAD model?
- 3) Explain SPRIAL model?

ii. i. ANSWER THE FOLLOWING QUESTIONS : 2*5=10

- 4) what is requirment engineering?
 - 5) what is requirment analysis?
-

.....
i. ANSWER ANY TWO OF FOLLOWING QUESTIONS : 2*10=20

- 1) Explain WATERFALLS model?
- 2) Explain RAD model?
- 3) Explain SPRIAL model?

ii. i. ANSWER THE FOLLOWING QUESTIONS : 2*5=10

- 4) what is requirment engineering?
 - 5) what is requirment analysis?
-

PLANT ECOLOGY AND PHYTOGEOGRAPHY

Time - 1½ hrs.

SECTION - A (2x5 = 10 Marks) Max Marks - 30

Answer any Two of the following Questions.

1. Light Factor (కాంతి కారకము)
2. Commensalism (సహభోజిత్వము)
3. Food web (ఆహార వ్యవస్థ)
4. Carbon Cycle (కార్బన్ చక్రము)

SECTION - B (2x10 = 20 Marks)

Answer All the following Questions

5. (a) What are Ecological pyramids? Describe the pyramids and Number biomass and Energy.
ఆవరణ సంబంధ పీఠమిడంలు ఏమిటి? సంఖ్య, ప్రవహించే శక్తి పీఠమిడంల గురించి వివరించండి.

(or)

- (b) Components of Ecosystem.
ఆవరణ వ్యవస్థ భాగాలు.

- 6 (a) Give an account of Nitrogen cycle.
నత్రజన్ చక్రము గురించి వివరించండి.

(or)

- (b) Explain the Edaphic Factor.

మృత్తికా కారకమును గురించి వివరించండి.

AMAL Degree college, Anakapalle, Visakhapatnam.

Degree V semester [B.com].

First mid.

Commercial Geography.

Max marks - 30.

Answer any 3 of the following

- ① Discuss about factors of Global warming which hinder the life on earth.
[Global warming (భూమి వేడైపో) గురించి వివరించండి].
- ② Briefly explain about Food crops and non-food crops.
[உணவு பயிரும் உணவு இல்லாத பயிர்களும் குறித்து விவరించండి].
- ③ What is "Forest Rights Act, 2006". Explain it.
[“உடைவு வனம் சட்டம் 2006”-ஐ விவரிக்கండి].
- ④ What is "Barytes"? Give a brief note about mangampeta barytes.
[புரத்தின் குறிப்பு என்ன? மங்கம்பேட்டை புரத்தின் குறிப்பு తెలపండి].

A.M.A.L College, Anakapalli.
Degree

MID Examinations
CENTRAL BANKING

III B.Com.

Time 1½ Hr

Marks :- 30

1. ಈಗಿನ ಪ್ರಶ್ನೆಗಳು ಎರಡು 3 ಪ್ರಶ್ನೆಗಳು ನಿರ್ದೇಶಿಸಿದವು.
Answer Any three questions.

1. ಉದ್ದೇಶಿತ ಮಹತ್ವದ ಪಾತ್ರವು ರೂಪುಗ್ರಹಿಸುತ್ತದೆ.
ಯಾವ ಪಾತ್ರವು ರೂಪುಗ್ರಹಿಸುತ್ತದೆ.

Explain a role played by RBI in Developing Countries.

2. RBI ಯಾವ ರೂಪುಗ್ರಹಿಸಿದ ಮಹತ್ವವನ್ನು ರೂಪುಗ್ರಹಿಸುತ್ತದೆ.

Explain the Constitution and Governance of RBI.

3. ಕ್ರೆಡಿಟ್ ನಿಯಂತ್ರಣ ಕ್ರಮವನ್ನು ರೂಪುಗ್ರಹಿಸುತ್ತದೆ.

Explain Credit Control measures.

4. ದ್ರವೀಕರಣದ ನಿಯಂತ್ರಣ ಕ್ರಮವನ್ನು ರೂಪುಗ್ರಹಿಸುತ್ತದೆ.
ರೂಪುಗ್ರಹಿಸುತ್ತದೆ.

Describe the Controlling measures used for Inflation.

5. ಬೇಸೆಲ್ I ನ ರೂಪುಗ್ರಹಿಸುತ್ತದೆ.

Explain Basel - I

4901
A.M.A.L. College Anakapalle
I Degree II Semester Mid Examination
ENGLISH

NOV 2021
Ist Year 2nd Sem Mid

TIME = 90 MINUTES

MAX. MARKS. 30

I Answer any one of the following in 75 words each $1 \times 10 = 10M$

- What is Russell's advice to avoid foolish opinions.
- What does the lamp symbolize in the story "The Doll's House"?

II Answer any one of the following in 75 words each. $1 \times 10 = 10M$

- The poem 'Ode to the West Wind' ends with a question — "of winter comes, can spring be far behind?" What does Shelley mean?
- Describe a typical day of a fisherman as described in "The Cornman del Fishers".

III Read the following passage and answer the questions that follow $2 \times 5 = 10M$

Well being is not just the absence of disease or illness. It is a complex combination of a person's physical, mental, emotional and social health factors. Well-being is strongly linked to happiness and life satisfaction. Every aspect of one's life influences the state of one's well-being. The factors that influence one's well-being are interrelated. Believing that money is the key to happiness harm a person's wellbeing. Understanding the well being of the population is very important. Keeping track of a population's well being helps government to decide on particular policies. Well-being can be achieved through a variety of means. Developing and maintaining strong relationship with family and friends is a ~~big~~ major one.

- Definition of well being.
- What can harm a person's well being?
- How understanding people's well being helps government?
- How can well being be achieved?
- What part of speech is "absence"?