

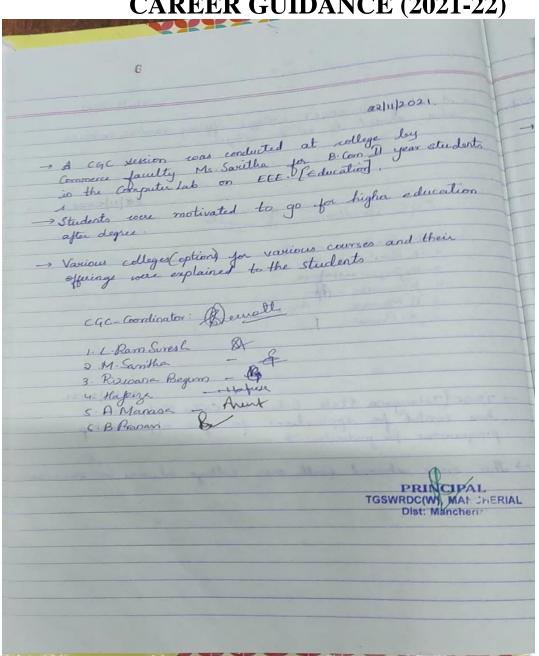


(Affiliated to Kakatiya University, College Code: 635)

Sumathi M.A. (Ph.D) **Principal** 

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**CAREER GUIDANCE (2021-22)** 







(Affiliated to Kakatiya University, College Code: 635)

Sumathi

M.A. (Ph.D)

**Principal** 

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> TISSNET & APUNCT-2022 institutional level screening Circular issued - 29-01-22 Circular posted in CGC - 301-01-2022 - HO requested to jurish the details of TISSMET & APUNET interested candidates in prescribed format by 01-02-2002 -> 3 students & 2 from BA OI from B. Com (CA) have applied forTISENET -) Ditails submitted to HO through the provided Google link in the circular on 01-02-2022 Screening test to be conducted on 04th Feb 2022. Due to some reasons TISSNET & APUNET institution level screening is postponed. CGC Co-ordinator glemath 2 L. Ram Scresh 3 Rizmana -A Students applied for TISSNET 1. Avunuri Prasanna ,SC-Madiga, Political Science. prasama a Jakkula Alekhya, BCD, " - Alekhya 3. Bodduna Rajitha, Bc & Padma shati), Rural-Development Payitho 4. Jadi Samswate, Sc(Nethakari), Political Science -





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# **TISSNET 2024 Sectional Weightage**

The table below indicates a section-wise break-up of questions and difficulty level of TISSNET exam:

Subject	Questions per section	Difficulty Level
General Awareness	40 MCQs	Moderate to Difficult
English Proficiency	30 MCQs	Moderate
Mathematical Skills and Logical Reasoning	30 MCQs	Easy
Total	100 MCQs	Moderate





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# **APUNET Exam Pattern**

However, the national placement test is objective and consists of multiple choice questions. Moreover, the following are the topics that are

topics come under the university entrance exam, these are as follows –

- 1. Reading Comprehension
- 2. Logical Skills and
- General and the Social Awareness.





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Sections	No of Questions asked in exam	Type of question	Duration
Reading Comprehension or English	20	MCQs	2 hours
Reasoning	10		
Quantitative Aptitude	20		
General and the Social Awareness	30		
Total Questions	80		
Statement of the Purpose	1	Essay (on about 500 words)	45 minutes



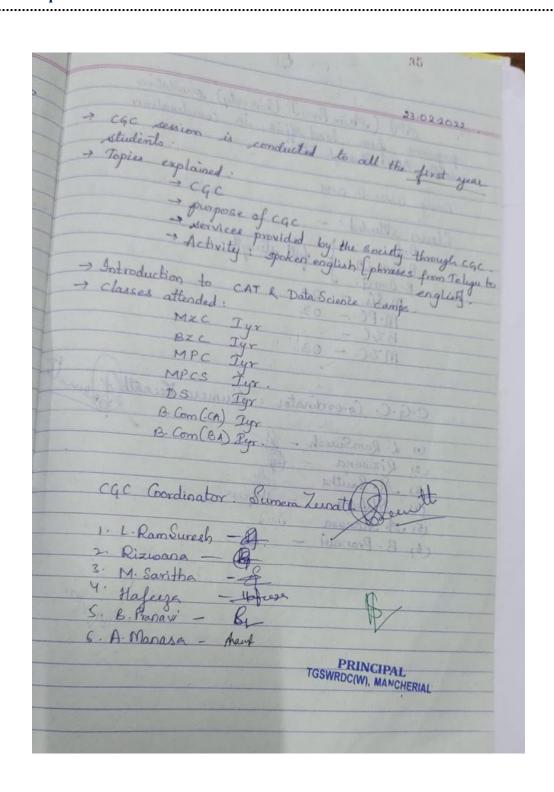


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NO.	Name of the Student	Group	Signature of the Student
1		D.S-Iyear	The
2	A. Mamalha	11	no .
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13	p. Sapiya	U	Balonya
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15	R. Vythnavi	11	Patchnin
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TGSWRDCW MANCHERIAL Name of the Student Signature of the Student Group A. Somita BXC -I posaltynyho D. prattyusha Swe tho Swettsa swalti Swatts 1) 6 11 B.com(ca)-10 D. Vinadho 11 shalpa 11 11 13 1, 14 G. Ash 11 Mible 16 14 17 ·Sulochana 18 B.COMCBA)-I 19 20 B. prolityusha 11 shailaia 11 22 11 23 Sandhyangni 15 24 11 25 11 26 11 27 11 28 11 to Saronya, 11 PRINCIPAL PRINCIPAL TGSWRDC(W), MANCHERIAL Dist: Mancherial



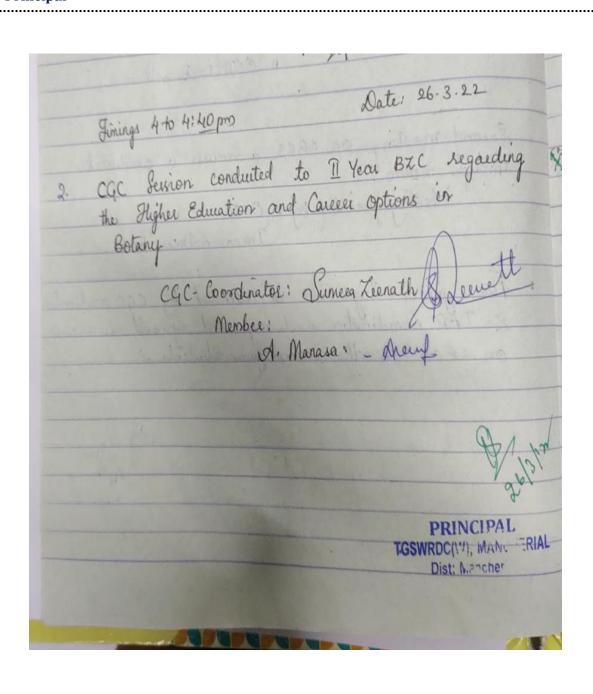


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Akshillia	Group	Signature of the Student
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Date: 06.06.2022 56 An overtation is conducted held to the Date: 16-06.22 TGSWRDC(W), MANCHERIAL Dist: Mancherial





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Dist: Mancherial

TGSWRDC	W MANCHERIAL	Signature of the Student
11	Group	Mouniba
Name of the Student	MSCs - II	-A · Ramya
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17 B. Arantsha	11	Anjati
18 D. Anjali	U	Shirani 00
19 Distivani		Navaneetka
20 O. Navaneetha	1)	-t dira
21 O. Jodira	11	Pravalika
22 D. pravalika	VI 11	Sulochang
23 D. Sulochar	11	Supraja
24 C. Supraja 25 C. Shyama	a 11	Shyamala
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- nmalo	1	Bharothi ,
27 J. Braidin	ŭ 11	Krishnayeni
28 J. Mishraven 29 K. Anjali	1)	de Anjali
30 C. poojilke	11	Pagisha





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65
GRE(2021) Students Status 21/08/2022
trived through GRE Camp
faired through of the Camp
Q. R. Joduphya MSCS Unduphyp
Q Larni Prasana Caroni prostimos.
1. R. Joduphya MSCS (Indurny).  1. D. Lazni Prasana (anni prastima).  1. D. Aare Swath; B. Comp(CA) Swatts:
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Ose got seat in us Universities but dropped due to financial problems.
-) R. Industry a 4 laponi Prasanna took date Science concline
-> R. Indupriya & laponi Prasanna took date Science coaching  4 Dis working as MIS Analyst in 20NO-Hyd
Applied for MBA.  Administration Confirmed in University of Leicester - England.  last Johing date Sep-23-2022.
National Overseas Policy & is is very carring at combarny
Applied for MBA . However A loicetex - Cooland
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1. M. Savitha - & PRINCIPALIAN HERIAN
2. B. Pranauj By TGSWRDC(W), MAIN Mancheriz
3. A. Manasa- Mary
4 HAFEEZA - Mafrese
5. Rizwana - 1
-> Data Science Camp resumed on 20/8/2022.
6 students: R. Keshavathi, K. Archana, M. Sandhya, T. Kamya
Sundbila Uma, P. Meghana - MPC.





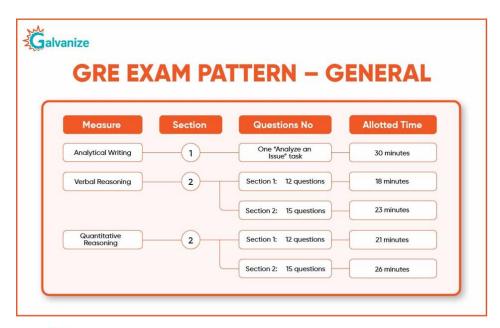
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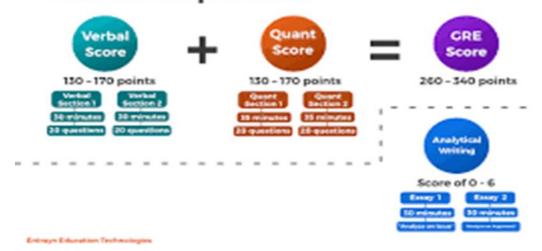
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# Let's take a look at the GRE exam pattern..







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# **CAREER GUIDANCE (2022-23)**

The same of the sa	43
	3
CGG Opentation	05/08/2023,
CGC Team have conducted as	ordation)
Session to all final year Degree student	s to descuss n
on the following.	
-> CAT Foundation course (CFC)-2023	selection process.
-> Life skille program.	
+ GRE /TELTS oriontation	
	- 9
⇒. CFC-2023 Selection process includes	paeliminary . Sceening
TOUL of the hour been conducted.	
- Also the smooning Test-1. Ide will get 5	hoatlested students.
For them, they will conduct online some	oching Test-2.
→ whe have explained about life skills 20098	and asked the
names of interested students from final ye	all.
→ Gaver orientation about GREITELTS P	ing. cos s a
PG program in abroad	
Meeting Time Duration: 40 Minutes.	
	0 -
	Paincipal sign.
(GC co. ordinator: Rixwana Begun	PRINCIPAL
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## CGC ACTIVITIES FROM A.Y 2022 - 2023 CAT - 2022 Common Admission Test [CAT - 2022] for the admission into various post graduate programs of IIMS [MBA] Number of students applied - 02 Among them one student got admission in MBA at HCU Hyderabad **CGC ORIENTATION SESSION** CGC team have conducted in orientation session to all final year students to discuss about higher education CAT , JAM entrance exams and admission process CAT and JAM camps organized by HE wing and selection process JAM -2023 CAMP Joint Admission Test (JAM) provides admission into MSC , MSC-PHD in premier institutions across the country like IIT, NIT And IISC etc. To select the students for JAM camp organized by TSWREIS We conducted a screening test for final year students at our college > Total 42 students attended the screening test in science subject > 3 students from our college got selected for CAT camp CCIP Community College Interaction Program HE wing asked to nominate one student from each college for CCIP based on their communication skills and confidence levels G. Swathi from BZC second year have been nominated after selection process conducted at college level > But she did not selected in the screening conducted by HE wing CPGET AND CUET RANKER MEETING Higher education wing conducted a meeting with CPGET 2022 and CUET 2022 rankers to discuss the admission process > We passed the information to all the passed out students and they attended the YOUNG INDIA FELLOWSHIP (YIF) It is a one year residential PG diploma course in liberal studies offered by Ashoka > Achieving conducted an orientation session for the all final year students 5 students from our college have applied for the program > No one got selected in final year results SCREENING TEST FOR DATA SCIENCE CAMP CGC team have conducted an orientation on data science camp organized by higher education wing at Hyderabad We collected interested student names from all final years Higher education wing conducted a two level screening test to select the students for data science camp TOSWRDOWN, MANCHERIAL Such A charle Dist Mancherial





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	test conducted at our college by 2 resource persons sent
A	This is a offline screening test conducted at our college by 2 resource persons sent
	hand office

- > Level 1: written test level 2: interview Overall 60 students from our college have attended level 1 screening test
- 25 students short listed for second round and attended the interview
- Finally 5 students were selected for data science camp conducted at Moinabad and Chaithanyapuri law college

### AFCAT 2023

- Indian Airforce released a notification for AFCAT to fill vacancies in Indian Airforce
- 1 student from our college applied for this exam
- > TSWREI Society provided fund to buy study material for AFCAT exam for students
- We have purchased the material and given to the students for her preparation
- But she did not selected in the final selection process

## KALPANA PROGRAM

- Kalpana program is a online career development program designed by scientist and professionals from leading global universities
- All the 3 years students are eligible to apply for this program
- Overall 28 students have registered for this program from our college
- > But 25 students have attended the sessions regularly
- > Incharge for this program is M.AMRUTHA, lecturer in Botony

### TISS

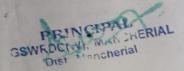
- Tata Institute of Social Sciences
- > TISS is an PG entrance exam in Social Sciences
- > HE wing have conducted an orientation on PG Admissions at TISS
- Many students were not interested to apply for TISS because they were not interested to study out of state
- Only 1 student applied for this exam
- > But she did not attended the exam

## RESIDENTIAL RESEARCH INTERNSHIP

- > HE wing have conducted an orientation about Residential Research Internship conducted at CHSS ( Centre for Human Security Studies ) , Hyderabad
- This is a one month internship
- > We collected names of interested students from all second years
- Overall 65 students have attended the screening test conducted at college
- > 1 student short listed for second round of screening
- She attended the personal interview through Zoom call by Head Office
- She got selected for the one month internship at CHSS Hyderabad
- Student name M. RAKSHITHA Data Science second year

### ONLINE TRAINING ON SAFE ONLINE COMMUNICATION

- "Safe online communication" online training was organized by CIET NCERT in collaboration with Cyberpeace Foundation
- It is a 5 days training program from July 3 to July 7
- Overall 60 students registered for this program and attended
- LIFE SKILLS CAMP ORIENTATION







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Hann by 2 resource news
➤ This is a offline screening test conducted at our college by 2 resource persons sent
by head office
> Level 1: written test level 2. Interview attended level 1 screening test
Overall 60 students from our cand attended the interview
<ul> <li>25 students short listed for second round and attended to</li> <li>Finally 5 students were selected for data science camp conducted at Moinabad and</li> </ul>
Finally 5 students were selected for Chaithanyapuri law college
AFCAT 2023     AFCAT to fill vacancies in Indian Airforce
> Indian Airforce released a notification for Air and Airforce released a notification for Airforce released and Air
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<ul> <li>KALPANA PROGRAM</li> <li>Kalpana program is a online career development program designed by scientist and</li> </ul>
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Only 1 student applied for this exam
But she did not attended the exam
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> 1 student short listed for second round of screening
She attended the personal interview through Zoom call by Head Office
> She got selected for the one month internship at CHSS Hyderabad
> Student name M. RAKSHITHA – Data Science second year
ONLINE TRAINING ON SAFE ONLINE COMMUNICATION
> "Safe online communication" online training was organized by CIET – NCERT in
collaboration with Cyberpeace Foundation
> It is a 5 days training program from July 3 to July 7
Overall 60 students registered for this program and attended
LIFE SKILLS CAMP ORIENTATION
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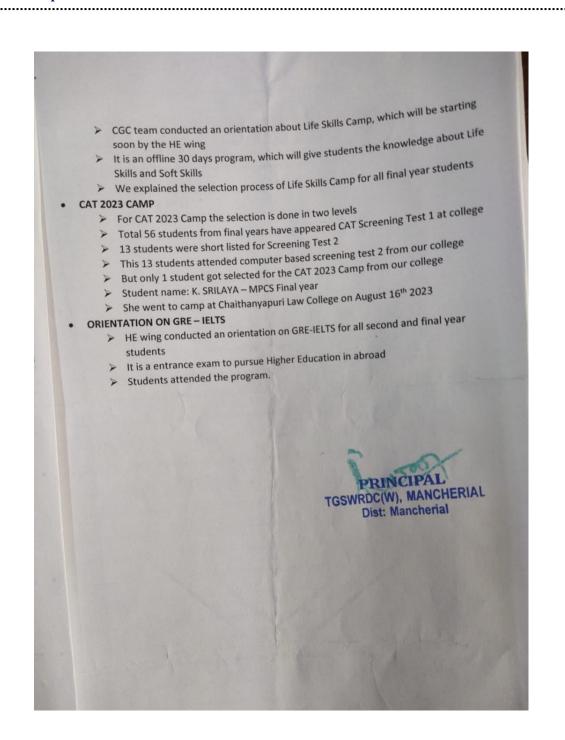
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# CAT 2024 Syllabus: An

## **Overview**

- There is a total of 66 questions in the <u>CAT</u>
   <u>exam</u> but the three sections in the CAT syllabus carry different weightage in the exam.
- Although the CAT syllabus 2024 is divided into 3 sections, the effective number of sections is five as VARC and DILR sections are further subdivided into 2 sub-sections.
- Despite being very wide, the CAT entrance exam syllabus is neither specifically defined nor released by IIMs. Instead, IIMs release an official Mock Test which is as per the forthcoming CAT exam topics and consists of question types that are expected in the actual CAT Exam.

Section	No. of Questions	Time limit	Time limit for PwD students
Verbal Ability and Reading Comprehension (VARC)	24	40 minutes	53 minutes and 20 seconds
Data Interpretation & Logical Reasoning (DILR)	20	40 minutes	53 minutes and 20 seconds
Quantitative Aptitude (QA)	22	40 minutes	53 minutes and 20 seconds
Total	66	120 minutes	160 minutes





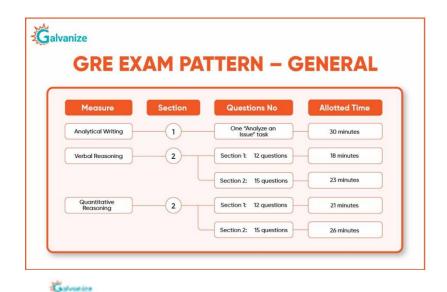
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Sumathi

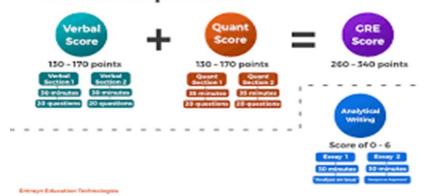
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# Let's take a look at the GRE exam pattern..







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	A mounika	MSCS (III)	Mounika.
2		NSCS-III	Ramuja.
3	-A. Ramya ch. Divyaganesh	NSCS-III	Deggaganesh.
4	ch. Lazmeprasanna	MSCS-III	Jam Doulnes.
5	p. sa°paya	MSCS-ITT	Bunyatraura
	n. punyask?	MS CS-TI	Punyasri
7	G. Magamani	NSCS-ITT	Nagamonp
8	G. AKhila	MSCS-TIT	Califaila
9	K - P00ja	MSCS-TIT	Pooja
10	D. Keerthist?	MGCS ATT	Handyturri
11	p. Amulya	MZC-III	-Amulya.
	B. Reshmasree	M2C-III	Navanotha.
13	R. Navonitha	M2C-III	Navanitha.
14	B. AKh91a	M2C-117	Daletha.
15	R. Stuth?	M2C-111	Quella.
16	ch. viietha	M2C-III	vijetha.
17	p. maunika	M2C-III	monnika.
16	p. Poathyusha	M2C-III	Galthotoken.
19	G. Harthera	M-2C-III	Harthika.
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21	A. Prathyusha	MPC-II	Prathoughe.
82	B. shrayyasani°	MPC-TIT	Shravagrani
23	J. Brahomasani	MPC-III	Parling
29	ch. chandena	MPC-III	chandana.
25	ch. Ravaigka	MPC-II	Ravaigle.
26	ch. tavya	нрс-ш	Kavya.
24	ch. sravya	NPC-M	Cleuder.
28		MPC-III	Rule
29	J-spumya	1490-517	Pavani
	J. Pavoni	MPC-III	Deega
30	J. Deepa	1 11 20	) Veela
			PRINCIPAL PRINCIPAL TGSWRDC(W), MANCHERIAL Dist: Mancherial





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2	A. prathyusha	BZC-TU	Prathyusha
3	B. Jyasna	RZC-TU	140/010
4	D. vennela	BZC-W	Typonavennela
5	D. Akshaya	BZC-W	Aleshaya
6	D. Meghana	RXC-TII	Meghana
7	D. Akanksha	BZC-W	Aleanketha
8	D. samatha	RZC-TU	Samatha
9	G. Meghamala	RXC-III	Meghanala
10	G. vyshnav?	B⊋c-IT	Vychrail
11	A-svilatha	Brom-Gen-III	Duf
12	A. pushpalatha	BCom-Gen-D	Busha
13	1. gangabhavani	BCom-Gen-TH	Gangal
14	B. Rajeshwase	B com-Gen-W	Rajeshwan
15	B. pavani	Bcom-Gen-EU	Pavan
16	ch. striatha	Bcom-Gen-Til	Snilatha
17	ch. reranmai	Bcom-Gen-a	Liranma
18	D. Anjaig	Brom-Gen-TU	Anjali
19	D- powitha	Room-Gen-Mi	Profitha
20	D- Anjalo	Brom-Gen-TII	Progitha Anjali
21	D-signatha	Brom-Gen-Ty	2000
22	o. Nekhetha	Brom-Gen-Di	Nikhitha)
23	D. sumalatha	Bram-Gen-Su	Eumoras
24	p-swatha	Brom-Gen-Til	Q.,
25	e. Rajitha	Brom-Gen-Ti	Rasitha
26	G-sownya	Boom-Gen-TI	Sownya
27	G-Raskhitha	Rom-Gen-III	Rakshitha
28	J. swath?	Brom-Gen-Tij	Swath
29	J. Maheshware	Brom-Gen-Ti	Maheshwari
30	K. Rhavani	Bom-Gen-Mi	Bhavani







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S.NO		DCW MANCHERIAL	
	Name of the Student	Group	Signature of the Student
1	A. pramila	BA -III	Pramela.
2	A. Nyichitha	RA-M	Callotia.
3	8. Deepika	BA-M	Deepiloa
4	p. Karshma	BA-M	Karishma.
5	0-sumathi	BA-M	Swandti
6	o-Jyothi	BA-M	Tyothi
7	G-mounika	15A-111	Mounika.
8	Gr. Suhasini	TI-AA	Bleenne
9	Girejasoin;	RA = N	Tejaswin1
10	B. manga	BA-TT	Managa.
(1)	J. Jyothi	BA-TIT	Juah.
12	J. NºKhºtha	BA-M	nordile:
13	J. Navanitha	BA-111	Mavanitha
14	K. maniteja	BA-TII	Monitiga.
15	K. Laxing	SA-D	Janny
16	ch. prathyusha	B-com-cA-IX	Pouller.
17	ch. pravalika	B.com-CA-III	Preelica
18	D. Yandaha	R. com-ca-sti	(mudle
19	D.Deepoka	B-com-co-III	peepika
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CPGET-2024 Syllabus

### 78. M.Sc. Data Science

- Fundamentals of Information Technology: Data and Information, Acquisition of Numbers and Textual Data, Central Processing Unit, Computer Networks, Input Output Devices, Computer Software, The Software Problem. Programming Principles and Guidelines.
- Problem Solving and Python Programming: Introduction to Computing and Problem Solving. Introduction to Python Programming. Control Flow Statements. Functions. Strings. Files and exception. Object-Oriented Programming. Functional Programming.
- 3. Data Engineering with Python: Data Science; Files and Working with Text Data, Working with Text Data. Working with Text Data, Regular Expression Operations, Working with Databases, Working with Tabular Numeric Data (Numpy with Python), Working with Data Series and Frames, Plotting (Plotting with Pandas).
- 4. Machine Learning: Introduction, Limits of Learning, Geometry and Nearest Neighbours, The Perceptron, Practical Issues, Linear Models, Probabilistic Modeling, Neural Networks, Unsupervised Learning, Association Rules.
- 5. Natural Language Processing: Language Processing and Python, Accessing Text Corpora and Lexical Resources, Processing Raw Text, Categorizing and Tagging Words, Learning to Classify Text, Deep Learning for NLP, Extracting Information from Text, Analysing Sentence Structure.
- 6. NoSQL Data Bases: Why NoSQL, Aggregate Data Models, More Details on Data Models, Distribution Models, Consistency, Version Stamps, Map-Reduce, Key-Value Databases, Document Databases, Column-Family Stores, Graph Databases.
- 7. Big Data: Getting an overview of Big Data, Introducing Technologies for Handling Big Data, Understanding Hadoop Ecosystem, Hadoop Distributed File System, Introducing HBase, Understanding MapReduce Fundamentals and HBase, Understanding Big Data Technology Foundations, Storing Data in Databases and Data Warehouses, NoSQL Data Management.
- 8. Deep Learning: Introduction to deep learning Algorithms, Neural Networks, Scalars (0D tensors), Vectors (1D tensors), Matrices (2D tensors), 3D tensors and higher-dimensional tensors, Key attributes, Manipulating tensors in Numpy, The notion of data batches, Real-world examples of data tensors, Vector data, Timeseries data or sequence data, Image data, Video data. Tensor operations: Element-wise operations, Broadcasting, Tensor dot. Tensor reshaping, Geometric interpretation of tensor operations, A geometric interpretation of deep learning, Gradient-based optimization, Derivative of a tensor operation, Stochastic gradient descent. Chaining derivatives: the Backpropagation algorithm Neural networks: Anatomy, Layers, Models, Loss functions and optimizers. Introduction to Keras, Keras, TensorFlow, Theano, and CNTK, Recurrent neural networks: A recurrent layer in Keras, Understanding the LSTM and GRU Layers.





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CPGET-2024 Syllehus

### 71. ZOOLOGY

Physiology and Biochemistry:

Physiology and Biochemistry:
Digestion Digestion definition and extra and intracellular digestion. Digestion of Carbohydrates,
Proteins, Lipids and Cellulose. Absorption and Assimilation of digested food; root
classroniestamia hormones in digestors. Respiration Definition of Respiration and Respiratory
disacciation curves. Holin's effect. Transport of CO., Chloride shift; Regulation of respiration—
nervous and chemical Circulation Types of circulation—Open and Closed circulation Systems
ond regulation of heart beat Regulation of Heart and Closed since and Closed circulation Systems
and regulation of heart beat. Regulation of Heart arts — Tachyorardia and Readycardis; Elocat
Clotting mechanism. Exerction Classification of Animals on the basis of exerctory products—
Anumoscofiels, Uricotelle, Circotelle, Structure and function of Nepton. Lirine formation, Counter

1. The Communication of the Communication of Proposition of Proposition Communication Communication of Proposition Communication Communication of Proposition Communication Commu

systology ussele Contraction: Types of Muscles, Ultra structure of skeletal m eory, muscle contraction mechanism and energetics. **Nerve Imp** erve impulse - Resimp potential and Action potential and Commagns, types of synapacs and Synaptic transmission. **Radocrine**:

Pancreas, Hormone action and concept of Secon

Physiology and Biochemistry:
Homeostasis and Enzymes Concept of Homeostasis. Mechanism of Homeostasis
Osmoregulation - Waster and ionic regulation by freshwater, brackish water and marine animals
Enzymes: Definition, Classification, inhibition and Regulation. Biomolecules and Metabolism
Carbohydratese: Classification and function of Carbohydrates, Carbohydratese metabolism
Glyodysis, Krebs cycle, Electron transport and oxidative phosphorylation. Proteins
Classification of proteins based on functions and Chemical nature. Protein Metabolism

Carbonyuracese (Lassuccation and Aurician) of Carbonyuraces, Carbonyurace (Region), (Ryon)yala, Kreba (cycle, Efectron Transport and oxidative phosphorylation, Protein Transport and Chemical nature, Protein Metabolic Transactionation, Dearnination and Users Cycle, Lyids Classification of Lpids, Ljud Metabolic Fatty and synthesis and Fatty acid oxidation.

Immunology - Basic concepts; antigens and antibodies Basic concepts of immunology. Cell of immune system, Pipes of Immunology. Cell of immune system, Pipes of Immunology. Cell of immune system, Pipes of Immunology. Cell of immune system in the American and Pice of antigens, Structure, function and types of an antibody D and T cell epitopes, haptens, adjourants. Antigen-antibody reactions, 7-Cell and D-Ce of the American antipode of the American antipode of the Immune system in health and disease Structure and functions of major histocompatibility complex. Heats properties and functions of Cytologies, Interferons and complement proteins Humoral and Cell mediated immunity. Types of hyper sensitivity. Concepts of autoimmunity and immunodeficiency. Introduction to Vaccines and types of Vaccines. Animal Biotechnology and Genetically modified organisms Concept and Scope of Animal Histochnology. Cloning vectors clone cloning Animal Cell culture. Supplication of cell culture states of the Concept and activate of animal cell cultures application of cell culture supplication of Consequence and and Applications. Transgenesses Methods of Transgenesis. Production of Transgenesic animals and Applications.

CHOPT TOTAL PUBLISHED

Part-B (60 Marks)

Alimai Diversity - Invertebrates Engdom Animalia, Brief history of Inversebrates. Protocobrief history of Inversebrates: Kingdom Animalia, Brief history of Inversebrates. Protocobrief Historia Lander Company of Control of Company of Control of Company of Control of Contr

Annelláa General characters, Classification of Annelláa up to classes with examples Type studyHorsdinario promotions. Evolutionary significance of Cocloure and Coolemodusts and metamerica.
Arthropoda General characters, Classification of Arthropoda up to classes with examples, Type
study – Prawi, Crustacean larvae, Insect metamorphosis, Peripairs - Structure and affinites.
Mollusca General characters, Classification of Mollusca up to classes with examples, Type study
- Play, Pear formation, Torsion and detorsion in gastropods. Echinodermata General
in ster fish, Echinoderm larvae and their significance. Hemichordata General characters,
Classification of Hemichordata up to classes with examples, Philosophesias - Structure and

Ecology, Zoogeography and Animal Behavior: Ecology-1: Ecosystem structure and functions. Types of Ecosystems -Aquatic and Terrestrial Biogeochemical cycles - Nitrogen, Carbon, Phosphorus and Water, Energy flow in ecosystem Ecosystems, and explain and ecological presential, Animal Associations, Altraulism, convengations

Ecology-II: Concept of Species, Jupulation dynamics and Growth curves, Community Structure and dynamics and Recological Succession, Ecological Adaptations, Environmental Pollution Sources, Effect and Control measures of Air, Water, Soil and Noise Pollution, Widdli conservation-National parks and Sanctuaries of Iodia, Endangered species. Biodiversity and

Zeogeography: Zeogeographical regions - Paisearctic, Nearctic, Netropical, Oriental, Australian and Ethiopian regions - their Climatic and faunal peculiarities. Walnes line, Discontinuous distribution Continental Drift, Animal Behaviour Types of Behaviour Innate and Acquired, Instinctive and Motivated behavior. Taxes, Reflexer, Tropisms, Biological rhythms and types of rhythms, trial and error learning, Imprinting, Imbituation, Classical conditioning, Instrumental conditioning, Social behavior, Communication, Pheromones, Riological rhythms, Biological rhythms, Biological Phythms, Biological Phyth

Animal Diversity-Vertebrates and Developmental Biology: Urochordata, Cephalochordata, Cyclostomata: Salient features of Urochordata, Retrogressiv metamorphosis and its significance in Urochordata, Salient features and affinition of Cephalochordata General characters of Cyclostomata, Comparison of the Petrongoon

Myxine, General characters and classification of Chordata upto orders with ex-General characters of Fishes, Classification of fishes up to order level with examp





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### Differential and Integral Calculus (20 Marks)

Partial Differentiation: latrositection - Functions of two variables - Neighborhood of a point (a, M. Centinuty) of a Function of two variables - Dentituding of two variables - Partial Increasives - Geometrical representation of a Function of two variables - Intercent of two Variables - Intercent of two Variables - Intercent on Total Differentials - Composite Functions - Differentiation of Composite Functions - Paparity of Fujic, M and fujic, 6) - Taylor's theorem for a function of two variables - Intercent of two Maxima and Minima of Munctions of two variables - Lagrange's Method of multipliers.

multipliers and Evolutes: Introduction - Definition of Curvature - Radius of Curvature - Length of Are as a Pinetion, Derivative of are - Radius of Curvature - Cartesian Equations - Newtonian Method - Centre of Curvature - Chard of Curvature - Cartesian Equations - Newtonian Method - Centre of Curvature - Properties of the evolute. Evolutes and involutes - Properties of the evolute. Evolutes - One Parameter Pannly of Curves - the family of straight lines - Definition - Expressions for the length of Curves: Introduction - Expression for the lengths of curves  $y = f(q) = \frac{p(q)}{2} =$ 

Differential Equations [20 Marks]
Differential Equations of first order and first degree: Introduction - Equations in which
Variables are Separable - Homogeneous Differential Equations - Differential Equations
Reducible to Homogeneous Form - Emer Differential Equations - Differential Equations
Reducible to Library Form - Exact differential Equations - Differential Equations
Reducible to Library Form - Exact differential equations - Integrating Factors - Change in
Reducible to Library Form - Exact differential equations - Integration Factors - Change in
Reducible to Homogeneous Equations - Simultaneous Terial Differential Equations - Equations of the form  $\frac{dv}{dt} = \frac{dv}{2t} = \frac{dv}{2t}$ 

. Qiy with constant coefficients by means of polynomial operators when  $Q(y) = e^{-x}$ ,  $b \sin \alpha x/b$  concates  $Y \in W$ . Method of undetermined coefficients. Method of variation of parameters - Linear differencial expansions with non-constant coefficients - The Cauchy - Euler Equation - Legendre's Linear Equations - Miscellameous Differential Equations.

Partial Differential Equations: Formation and solution- Equations easily integrable - Linear equations of first order.

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Real Analysis [20] Marks[
Sequences: Limits of Sequences- A Discussion about Proofs-Limit Theorems for SequencesMonotone Sequences and Cauchy Sequences -Subsequences-Lim superiors and Lim inferiorSeries-Alternating Series and Integral Test.
Continuity Cantinuous Functions -Properties of Continuous Functions -Uniform Cantinuity Limits of Functions
Differentiation: Basic Properties of the Derivative - Mean Value Theorems - L Hospital Rule -

Taylor 's Theorem.

Integration : The Riemann Integral - Properties of Riemann Integral-Fundamental Theorem of Integral Culture.

Algebra (Schlarica)

Groups: Definition and Examples of Groups: Elementary Properties of Groups-Finite Groups
Subgroups: Definition and Examples of Groups-Finite Groups
Subgroups: Perminsingly and Notation -Subgroup Treats - Examples of Subgroups
Formation Groups: Definition and Notation -Cycle Notation-Properties of Fermutations
- Archeck Digit Scheme Based on 25. Isomorphisms: Marketation Definition and Examples
- Cycley's Theorem Properties of Isomorphisms - Marketation - Groupse Schemes Groups
- Groupse Treats of Company - The Restation Group of a Cube and a Soccer Ball - Application of Casets in
Normal Subgroups and Pactor Groups: Normal Subgroups-Factor Groups - Applications of Casets in
Normal Subgroups and Pactor Groups: Normal Subgroups-Factor Groups - Applications of Factor Groups - Group Immorraging - Definition and Examples - Properties of
Introduction to Rings: Motivation and Definition - Examples of Rings - Properties of Rings - Subgroups

iga. al Domains: Definition and Examples - Fields -Characteristics of a Ring. and Factor Rings: Ideals -Factor Rings -Prime Ideals and Maximal Ideals. Iomomorphisms: Definition and Examples-Properties of Ring- Homomorphisms.

Linear Algebra (20 Marks)

Vector Spaces; Vector Spaces and Subspaces -Null Spaces, Column Spaces, and Linear

Transformation.

Transformations
-Linearly Independent Sets Baires - Coordinate Systems - The Dimension of its Vector Space--Linearly Independent Setsis - Eggrevoluses Eggrevorment - The Universities of Eggrevoluses - The Universities - Eggrevoluse - Eggrevoluses - Eggrevoluses - Eggrevoluses - Applications - Complex Eigenvoluses - Applications to Differential Equations, - Optimized - Applications - Complex Eigenvoluses - Applications - Complex - Eigenvoluses - Eigenvoluses - Applications - Complex - Eigenvoluses - Eig

Orthogonality and Least Squares: Inner Product, Length, and Orthogonality -Orthogonal Sets -Orthogonal Projections - The Gram-Schmidt othogonalization Process.





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CPGET-2024 Syllabus

### 69. PHYSICS

### MECHANICS & OSCILLATIONS

MECHANICS & OSCILLATIONS

Vector Analysis
alar and Vector fields, Gradient of a Scalar field and its physical significance. Divergence and Curl of a
cetor field and related problems. Vector integration, line, surface and volume integrals. Stokes', Gauss's
d foren's theorem-simple applications.

oscillator, and solution of the differential equation—Physical characteristics of SI measurements of rigidity modulus, compound pendulum, measurement of g, combina erpendicular simple harmonic vibrations of same frequency and different frequency

of statistical mechanics. Phase space, concept of ensembles an quantum statistics and their differences, concept of probab law -Molecular energies in an ideal gas- Maxweil-Boltzm materin Distribution law, Fermi-Dirac Distribution law, comp

Electromagnetic Induction and Electromagnetic waves
Faraday's laws of induction (differential and integral form), Lenz's law, self and mutual Indu
Continuity equation, modification of Ampere's law, displacement current, Maxwell equa
Maxwell's equations in vacuum and delectric medium, boundary conditions, plane wave equa
transverse nature of FM waves, velocity of light in vacuum and in medium. Popiting's theorem.

Growth and decay of currents in LR, CR and LCR circuits - Critical damping. Alternating current, relation between current and voltage in pure R, C and L-vector diagrams - Power in ac circuits. LCR series and parallel resonant circuit - Q-factor. Ac & DC motors-single phase, thereophase (basics only).

WAYES AND OPTICS

I. Waves
Fundamentals of Waves-Transverse wave propagation along a stretched string, general solution of wave equation and its significance, modes of vibration of stretched string clamped at ends, overtones, energy transport, transverse impedance.

Longitudinal vibrations in barn-wave equation and its general solution. Special cases (i) bar fixed at the both ends, ii) but fixed at the mid-point, iii) bar five at both ends, iii) bar fixed at one end. Transverse vibrations in a bar-wave equation and its general solution. Houndary conditions, clamped free bar, free-free bar, but supported ab both ends, Tuning fork.





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Interference
 Principle of superposition – coherence – temporal coherence and spatial coherence – conditions for
 Interference of light. Interference by division of wave front: Fresnel's biprism – determination of wave
 length of light. Determination of thickness of a transparent material using Biprism – change of phase on
 reflection – Lloyd's mirror experiment.

Interference by division of amplitude: Oblique incidence of a plane wave on a thin film due to reflected and transmitted light (Cosine law) – Colours of thin films – Non-reflecting films – interference by a plane parallel film illuminated by a point source—Interference by a film with two non-parallel reflecting surfaces (Wedge shaped film) – Determination of diameter of wire-Newton's rings in reflected light with and without contact between lens and glass plate, Newton's rings in transmitted light (Hainteen lens and glass plate, Newton's rings in transmitted light (Hainteen Fringes) – Determination of wave length of monochromatic light – Michelson Interferometer – types of fringes – Determination of wavelength of monochromatic light, Difference in wavelength of sodium D<sub>1</sub>,D<sub>2</sub> lines and thickness of a thin transparent plate.

3. Diffraction
Introduction — Distinction between Fresnel and Fraunhofer diffraction, Fraunhofer diffractionDiffraction due to single slit and circular aperture — Limit of resolution — Fraunhofer diffraction due to
double slit — Fraunhofer diffraction pattern with N slits (diffraction grating). Resolving Power of grating
— Determination of wave length of light in normal and oblique incidence methods using diffraction
grating. Frasnel diffraction-Frasnel's half period zones — area of the half period zones — zone plate —
Comparison of zone plate with convex lens — Phase reversal zone plate — diffraction at a straight edge —
difference between interference and diffraction.

4. Polarization
Polarizat light: Methods of Polarization, Polarization by reflection, refraction, Double refraction, selective absorption, scattering of light – Brewster's law – Malus law – Nicol prism polarizer and analyzer – Refraction of plane wave incident on negative and positive crystals (Huygen's explanation) – Quarter wave plate, Half wave plate – Bobiner's compensator – Optical activity, analysis of light by Lauren's half shade polarimeter.

### MODERN PHYSICS

SPECTROSCOPY
 Atomic Spectra: Introduction - Drawbacks of Bohr's atomic model - Sommerfeld's elliptical orbits - relativistic correction (no derivation). Stern & Gerlach experiment, Vector atom model and quantum numbers associated with it. L-S and j-j coupling schemes. Spectral terms, selection rules, intensity rules - spectra of alkali atoms, doublet fine structure, Zeeman Effect, Paschern-Back Effect and Stark Effect

Molecular Spectroscopy: Types of molecular spectra, pure rotational energies and spectrum of diatomic molecule. Determination of inter nuclear distance. Vibrational energies and spectrum of diatomic molecule. Raman effect, elassical theory of Raman effect Experimental arrangement for Raman effect and its applications.

Quantum Mechanics Inadequacy of classical Physics: Spectral radiation - Planck's law (only discussion). Photoelectric effect - Einstein's photoelectric equation. Compton's effect - experimental verification.

Matter waves & Uncertainty principle: de Broglie's bypothesis - wavelength of matter waves, properties of matter waves. Phase and group velocities. Davisson and Germer experiment. Double slit experiment. Standing de Broglie waves of electron in Bohr orbits. Heisenberg's uncertainty principle for position and momentum (x and p<sub>1</sub>), Energy and time (E and I). Gamma ray microscope. Diffraction by a single slit. Position of electron in a Bohr orbit. Complementary principle of Bohr.

Schrodinger Wave Equation Schrodinger time independent and time dependent wave equations. Wave function properties - Significance. Basic postulates of quantum mechanics. Operators, eigen functions and eigen values, expectation values.

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3. Nuclear Physics
Nuclear Structure: Basic properties of nucleus - size, charge, mass, spin, magnetic dipole moment and electric quadrupole moment. Binding energy of nucleus, deuteron binding energy, p-p, n-n, and n-p scattering (concepts), nuclear forces. Nuclear models liquid drop model, shell model. Alpha and Beta Decays: Range of alpha particles, Geiger - Nuttal law, Gammon's theory of alpha decay, Geiger - Nuttal law from Gammon's theory. Beta spectrum - neutrino hypothesis. Particle Detectors: GM counter, proportional counter, scintillation counter.

4. Solid State Physics & Crystallography
Crystal Structure: Crystalline nature of matter. Cystal lattice, Unit Cell, Elements of symmetry, Crystal
systems, Bravais lattices. Miller indices. Simple crystal structures (SC-, BCC, FCC, CsCl, NaCl,
diamond and Zine Blende)
X-ray Diffraction: Diffraction of X -rays by crystals, Bragg's law, Experimental techniques - Laue's
method and powder method.
Bonding in Crystals: Types of bonding in crystals - characteristics of crystals with different bondings.
Lattice energy or ionic crystals - determination of Madelung constant for NaCl crystal. Calculation of
Bont Coefficient and repulsive exponent. Bont-Tabet cycle.

- 1. Band theory of P-N junction: Energy band in solids (band theory), valence band, conduction band and forbidden energy gap in solids, insulators, semiconductors and pure or intrinsic semiconductors and impure or extrinsic semi-conductors. N-type semi-conductors, P-type semi-conductors, Fermi level, continuity equation.
  Diodes: P-N junction diode, Half-wave, full-wave and bridge rectifier. Zener diode & its characteristics. Zener diode as voltage regulator.
- Bipolar Junction Transistor (BJT) p-n-p and n-p-n transistors, current components in transistors, CB. CE and CC configurations transistor as an amplifier RC coupled amplifier Frequency response (Qualitative analysis).
- Feedback concept & Oscillators: Feedback, General theory of feedback Concepts of oscillators, Barkhausen's criteria, Phase shift oscillator Expression for frequency of oscillation.
- 4. Special devices- Construction and Characteristics: Photo diode Shockley diode Solar cell, Opto-couplers- Field Effect Transistor (FET) FET as an Amplifier Uni-Junction Transistor (UJT), UJT as a relaxation oscillator Silicon controlled rectifier (SCR) SCR as a switch.
- 5. Digital Electronics: Binary number system, convertion of binary to decimal and vice-versa. Binary addition and subtraction [1's and 2's complement methods]. Hexadecimal number system. Conversion from binary to hexadecimal and vice-versa, Decimal to hexadecimal and vice-versa. Logic gates: OR, AND, NOT gates, truth tables, realization of these gates using discrete components. NAND, NOR as universal gates, Exclusive OR gate (EX-OR). De Morgan's Laws Verification.





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### 63. COMPUTER SCIENCE

Programming in C. (15 Marks).

Computer Euclamentals: Introduction of Computers, Classification of Computers, Anatomy of a Computer Euclamentals: Introduction to ON, Operational Obserview of a CPU.

Program Fundamentals: Generation and Classification of Programming Languages, Compiling, Interpreting, Locologia, Linking of a Program, Developing Program, Software Development.

Algorithms: Definitions, Different Ways of Stating, Algorithms (Step-form, Pseudo-code, Flowchart), Strategy for Designing Algorithms, Structured Programming Concept, Busiess of C: Overview of C, Developing Programs in C, Parts of Nimple C Program, Structured or December 1, Colcas, Keywork, Identifiers, Dust Types, Variations, Constants, Operators and Expressions, Expression Evaluation-precedence and associativity. Type Conversions.

Impai-Oulput: Non-formatical and Formalical Impai and Oulput Functions, Pscape Sequences, Control Statements: Selection Statements—if, if-else, nested if-nasted if-else, comma operator, conditional operator, switch, Iterative Statements—while, for, do-while; Special Control Statement—gote, break continus; return, exit.

preas, continue, return, exit.

Arrays and Strings: One-dimensional Arrays, Character Arrays, Functions from ctype.h, string.h, Multidimensional Arrays.

Multidimensional Arrays, in Functions, Call-hy-Value Vs Call-hy-reference, Passing Arrays to Functions Concept of Functions, Concept of Survivoles, Storage Classes, Inline Functions, and Recursion.

Functions, Score of Variables, Storage Classes, Inline Functions, and Recursion.

Pointers: Introduction, Address of Operator (&), Pointer, Uses of Pointers, Arrays and Pointers, Pointers and Strings, Uninters to Pointers, Array of Pointers, Pointer to Array, Dynamic Memory Allocation and Strings, Uninters to Pointers, Array of Pointers, Climina, Accessing members, of a Structure (Union), Array of Structures (Union), Structures verses Unions, Enumeration Types.

(Union), Accessing members of a Structure (Union), Array of Structures (Union), narucatures verses Unions, Enumeration Types.
Files: Introduction, Using Files in C, Working with Text Files, Working with Binary Files, Files of Records, Random Access in Files of Records, Other File Maragement Functions.

Textbook: Pradip Dey, Manas Ghosh, Computer Fundamentals and Programming in C (2e)

Introduction to C++: Applications, Example Programs, Tokens, Data Types, Operators, Expressions, Control Structures, Arrays, Strings, Pointers, Searching and Suring Arrays.
Functions: Introduction, Probatyee, Passing Data by Valar, Reference Variables, Using Reference Variables as Parameters, Inline Functions, Default Arguments, Overloading Functions, Passing Arrays to Empirical Processing Pro

Functions.

Object Oriented Programming: Procedural and Object-Oriented Programming, Terminology, Benefits,
OOP Languages, and OOP Applications. Classes: Introduction, Defining as Instance of a Class, Why
Have Private Members' Separating Class Specification from Implementation, Inline Member Functions,
Constructors, Passing Arguments to Constructors, Destructors, Overloading, Constructors, Private
Member Functions, Arrays of Objects, Instance and Static Members, Friends of Classes, Member-wise
Assignment, Copy Cumstructors, Operator Overbuding, Object Conversions, Aggregation

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Inheritance: Introduction, Protected Members and Class Access, Base Class Access Specification, Constructors and Destructors in Base and Derived Classes, Class Hierarchies, Polymorphism-Function Overloading, Function of the June Virtual Member Functions, Maltiple Inhegase, and Pure Virtual Functions, Malliple Inhegase, Construction, Malliple Inhegase, Construction of the Protection of th

C++ Stream: Stream Classes, Lutermarted D/O Operations, Formarted D/O Operations.

Exceptions: Introduction, Throwing an Exception, Handling an Exception, Object-Oriented Exception Handling with Classes, Multiple Exceptions, Extracting Data from the Exception Class, Re-throwing an Exception.

Templates: Function Templates - Introduction, Function Templates with Multiple Type, Overloading with Function Templates. Class Templates - Entroduction, Defining Objects of the Class Template, Class Templates and International Conduction to the STL.

### Data Structures using C++ (17 Marks)

Basic data Structure: Introduction to Data Structures, Types of Data Structures, and Introduction to Algorithms, Pseudo code, and Relationship among data, data structures, and algorithms, Implementation of data structures, Analysis of Algorithms,
Stacks: Concept of Stacks and Queues, Stacks, Stack Abstract Data Type, Representation of Stacks Lising, Sequential Organization (Arrays), Multiple Stacks, Applications of Stack. Expression Evaluation and Conversion, Polich notation and expression conversion, Processing of Function Calls, Reversing a Niring with Stack, Recursion.

Recursion: bitroduction, Recurrence, Use of Stack in Recursion, Variants of Recursion, Recursion Functions, Iteration versus Recursion.

Queues: Concept of Queues, Queue as Abstract Data Type, Realization of Queues Using Arrays, Circular Queue, Multi-queues, Dequeue, Priority Queue, Applications of Queues, Linked List; bitroduction, Linked List, Linked List Abstract Data Type, Linked List Variants, Doubly Linked List, Circular Linked List, Circular Linked List, Control List

Trees: Introduction, Types of Trees, Binary Tree, Binary Tree Abstract Data Type, Realization of a Binary Tree, Insertion of a Node in Binary Tree, Binary Tree Traversal, Other Tree Operations, Binary Search Tree, Thread

Searching and Sorting: Search Techniques-Linear Search, Binary Search, Norting Techniques-Selection Sort, Bubble Sort, Insertion Sort, Morge Sort, Quick Sort, Comparison of All Sorting Methods, Search Trees: Symbol Table, Optimal Binary Search Tee, AVI. Tree (Height-bulaned Tee) Graphs: Introduction, Representation of Graphs, Graph Traversal — Depth First Search, Breadth First Search, Spanning Tree, Print's Algorithm, Kruska's Algorithm.





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Hashing: Introduction, Key Terms and Issues, Hash Functions, Collision Resolution Strategies, Hash Table Overflow, Extendible Hashing

Heaps: Basic Concepts, Implementation of Heap, Heap as Abstract Data Type, Heap Sort, HeapApplications.

Text books: 1. Varsha H. Patil "Data structures using C++"

2

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### Data Base Management Systems: (20 Marks)

Introduction: Database-System Applications, Purpose of Database Systems, View of Data, Database Languages, Relational Databases, Database Design, Data Storage and Querying, Transaction Management, Database Architecture, Database Users and Administrators.

Introduction to the Relational Model: Structure of Relational Databases, Database Schema, Keys, Schema Diagrams, Relational Query Languages, Relational Operations

3/4

Database Design and the E-R Model: Overview of the Design Process, The Entity- Relationship Model, Constraints, Removing Redundant Attributes in Entity Sets, Entity-Relationship Diagrams, Reduction to Relational Schemas, Entity-Relationship Design Issues, Extended E-R Features, Alternative Notations for Modeling Data, Other Aspects of Database Design.

Relational Database Design: Features of Good Relational Designs, Atomic Domains and First Normal Form, Decomposition Using Functional Dependencies, Functional- Dependency Theory, Decomposition Using Multivalued Dependencies, Normal Forms-2 NF, 3 NF, BCNF, The Database Design Methodology for Relational Databases.

Introduction to SQL: Overview of the SQL Query Language, SQL Data Definition, Basic Structure of SQL Queries, Additional Basic Operations, Set Operations, Null Values, Aggregate Functions, Nested Subqueries, Modification of the Database.

Intermediate SQL: Join Expressions, Views, Transactions, Integrity Constraints, SQL Data Types and Schemas, Authorization.

Advanced SQL: Accessing SQL from a Programming Language, Functions and Procedures, Triggers, Recursive Queries.

Transaction Management: Transaction Support–Properties of Transactions, Database Architecture, Concurrency Control—The Need for Concurrency Control, Serializability and Recoverability, Locking Methods, Deadlock, Time Stamping Methods, Multi-version Timestamp Ordering, Optimistic Techniques, Granularity of Data Items, Database Recovery—The Need for Recovery, Transactions and Recovery, Recovery Facilities, Recovery Techniques, Nested Transaction Model. Security: Database Security—Threats, Computer-Based Controls—Authorization, Access Controls, Views, Backup and Recovery, Integrity, Encryption, RAID.

Text book: Silberschatz, H. Korth and S. Sudarshan, Database System Concepts, 6th Ed., Tata McGraw Hill, 2011

## Programming in Java: (15 Marks)

Introduction: Java Essentials, JVM, Java Features, Creation and Execution of Programs, Data Types, Structure of Java Program, Type Casting, Conditional Statements, Loops, Classes, Objects, Class Declaration, Creating Objects.

Method Declaration and Invocation, Method Overloading, Constructors – Parameterized Constructors, Constructor Overloading, Cleaning-up unused Objects, Class Variables &Method-static Keyword, Method-static Keyword, One-Dimensional Arrays, Two-Dimensional Arrays, Command-Line Arguments, Inner Inheritance: Introduction, Types of Inheritance, extends Keyword, Examples, Method Overriding final Keyword, Abstract classes, Interfaces, Abstract Classes Verses Interfaces.

Packages: Creating and Using Packages, Access Protection, Wrapper Classes, String Class, Strin Class.

Exception: Introduction, Types, Exception Handling Techniques, User-Defined Exception.





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## **62. CHEMISTRY**

## Part-A (40 Marks)

Coordination Compounds, Applications of Coordination Compounds, Organo metallic Chemistry, Metal Carbonyls and Related Compounds, Bioinorganic Chemistry, Hard and Soft Acids and Bases (HSAB). Carboxylic Acids and Derivatives, synthesis Based on Carbanions, Nitro Hydrocarbons, Amines, Cyanides and Isocyanides, Heterocyclic Compounds, Carbohydrates, Amino Acids and Proteins, Electrochemistry and Emf, Chemical Kinetics, Thermodynamics. Photochemistry.

## Part-B (60 Marks)

P-Block Elements, Chemistry of Zero Group Elements, Chemistry of d-Block Elements, Chemistry of f-Block Elements, General Principles of Inorganic Qualitative Analysis, Chemical Bonding, Molecular Orbital Theory, Theory of Quantitative Analysis, Theories of Bonding in Metals. Structural Theory in Organic Chemistry, Acyclic Hydrocarbons, alicyclic Hydrocarbons, aromatic Hydrocarbons, Halogen Compounds, Alcohols, Phenols, Ethers and Epoxides, Carbonyl Compounds, Conformational Analysis, Stereochemistry of Carbon Compounds. Atomic Structure and Elementary Quantum Mechanics, Gaseous State, Liquid State, Solutions, Dilute Solutions and Colligative Properties, Solid State Chemistry, Phase Rule, Colloids and Surface Chemistry, adsorption, Evaluation of Analytical Data.

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### 61. BOTANY

### Part-A (40 Marks):

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### 40. POLITICAL SCIENCE

### Part - A (Marks: 30)

Political Science: Theories, Concepts and Institutions

Political Science – definition, scope and Political Science as a Policy Science; Political Science and its relations with other social sciences – History, Economics and Sociology; Approaches the Study of Politics—Liberal, Marxist, Behavioral, Ideologies—Individualism, Marxism Anarchism, Pascism and Socialism; Theories of Origin of the State – Divine, Evolutionar (Historical) and Social Contract.

Concepts - State, Nation; Civel Society; Sovereignty; Moniam and Pluralism; Law: Sources of Law, Rule of Law, Power, Authority and Legitimacy; Citizenship; Liberty and Equality and interrelationship between liberty and equality; Rights: theories and kinds; Ruman Rights; Forms of Government - Democracy; Direct and Indirect; Unitary and Federia; Purliamentaly Presidential; Theory of separation of powers (Montesquiest) Organs of Government: Legislatures unitanental, becamental, powers and functions; Executive - powers and functions; Discouries - powers and functions; Discouries - powers and functions; December 1997.

### Part - B (Marks: 40)

Indian Government and Politics

Nationalist Movement and Constitutional Development – Impact of Colonial Rule and Indian National Movement; Making of the Indian Constitution; Philosophical Foundations and Salient Features of the Indian Constitution; Fundamental Rights and Directive Principles - Fundamental Rights and Duties; Directive Principles of State Policy; Relationship between Fundamental Rights and Directive Frinciples of State Policy.

Statutory Commissions for Protection of Rights – National Human Rights Commission. Emergence, Evolution and Pantenismig (NHEC) National Commission for Women (NCW); National SC & ST Commission; National Minorities Commission; Social and Political Movements in India – Farmers Movements; Dalit Movements, Tribal Movements; Environmental Movements Women's Movement

Union Government – President: Election; Powers and Functions; Parliament – Composition; Powers and Functions; Prime Ministers and Council of Ministers, Supreme Court - Composition; Powers and Functions; Judicial Review; Judicial Activism; State Government - Governor, Chief Minister and Council of Ministers; Legislature; High Court - Composition; Powers and Functions; Union - State Relations - Features of Indian Federal System; Centre - State Relations; Recent Trends in Centre-State Relations.

Local Self Government—Democratic Decentralisation; Panchayati Raj Institutions—73rd

Political Process; Nature of Indian Political Party System – National Political Parties – INC, BJT CP, CPM, BSP, SP, JD(9); Regional Political Parties – Anali Dal, JaM, AlaDMK, TSS, TDF Pressure Groups; Media; Right to Information Act; Electoral Politics: Election Commission Composition, Powers and Functions; Voting Behavior – Influence of Socio-Economic Factors

1

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### Part - C (Marks: 36 Political Thought

Political Thought - Nature, Methods and Significance; Western and Indian Political Thought - Comparison, Ancient and Medical Political Thought - Plattic Theory of Justice and Ideal State. Comparison, Ancient and Medical Political Thought - Plattic Theory of Justice and Ideal State. Aristotle: Classification of Governments, Theory of Revolutions and Slavery, Manut-Dharma and Varue; Kausilyan - Saprianga Theory, Mandial Theory, Thomas Aquinaes. Theory of Law, Early Modern Western Political Thought: Church - State Controversy, Nicolo Machiselli as a modern onlitical thinker and views on State Craft.

Social Contractualists: Thomas Hobbes- Individualism and Absolute (State) Sovereignty; John Locke - Natural Rights and Limited Government; Jean Jacques Rousseau- General Will and Popular Sovereignty; Utilitarians: Jeremy Bentham- Principles of Utilitarianism; J.S. Mill-Liberty, Representative Government; Idealists: GWF Hegel- Dialectics and Theory of State; TH Green-Rights and Political Obligation.

Marxist Philosophy – Karl Marx: Dialectical and Historical Materialism; Mao Ze dong: On Contradictions, New Democratic Revolution; Antonio Gramsci: Hegemony and Civil Society.

Indian Political Thought: Buddha- Social and Political Ideas; Dharma and Sangha; Basava -Social Ideas; Joytirao Phule- Critique of Brahmanism, Social Revolution; Mohandas Karamchand Gandhi - Ahimsa, Satyagraha; Jawaharial Nehru - Democratic Socialism, Secularism; Dr. B.R. Ambedkar - Theory of Caste, Annihilation of Caste and State Socialism.

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### 33. HISTORY

### Part - A: (40 Marks)

World History (1458)—1950 C.E.): Introduction: Fall of Constantinople, end of crusades, Renaissance, Geographical Discoveries, Reformation, Rise of Nation States; Enlightened Depotitest, American war of Independence, French Revolution: Causes—Course—Constitutional Assembly—National Convention—Directory—Effects of the Revolution; Emergence of Napoleon Bomaparte—Espansion—Consolidation and Downfull, Vienna Congress—Concret of Europe—Republic in France—Napoleon III—Pairis Commune—The Rise of III French Republic National Movements: Unification of Italy, Unification of Germany; Liberalian and Democrety in Britain; The Eastern Question—Crimean War—Berlin Congress; Revolution in Turkey—Balkan wars; Scramble for African and Asian Colonies—Theories and Mechanisms of Imperialism; Power blocks in Europe—Imperial Result—Caused and System—Iris World War—Causes and Pictories.

Scramble for African and Asian Colonies—Theories and Mechanisms of Imperialism; Power blocks in Europe—Imperial Result—Caused and System (French Vienname). A Caused and Pictories of Caused and Pictories of Caused and Pictories.

Fig. 10 Pair November 1

### Part B: (60 Marks)

History and Culture of India up to 1964 C.E.

Unit Lintroduction to History – Survey of the Sources- PreHistoric period – Pulcolithic, Measure of Geography on History – Survey of the Sources- PreHistoric period – Pulcolithic, Measure – Survey of Technology. Indus Valley
Civilization – Its Characteristic Features – Vedic Culture – Barly and Later Vedic Periods – PostVedic Period – Emergence of Varna and Jati – Rise of New Religious Movements – Jainism and
Buddhism in G<sup>th</sup> Century B.C. Impact on Society and Culture.

Unit 2: A Brief Survey of Political Conditions in Ancient Indian — Magadha, Alexaunder's Iavasion and Mauryas — Ashoka's Dhamma, Its Nature and Propagation — Mauryan Administration, Society and Economy — Art and Architecture.

Unit 3: Post-Mauryan period in North India – A Brief Political Survey of Kushans, Guptas, Pushyabuthi and Rajputs: Pelity and Administration – Social Conditions – Caste System – Position of Women – Economy, Indian Feudalism – Art - Architecture – Education, Literature, Philosophy, Science and Technology.

Unit 4: A Brief Political Survey of South India – Sangam Age – Satavahanas – Pallavas – Chola Chabukyas and Rastrakutas – Kakatiyas, Vijayanagara and Bahamains: Polity a Administration, Society, Economy Art, Architecture and Liferature.

Unit 5: Invasions of Arabs, Charmavide and Choris and Delhi Saltanate – A Brief Political Survey of Delhi Sultanate Polity and Administration, Reforms of Allauddin and Mobid. Bin Tuglag. Society, Nobility – Status of Women. Economics and Technological Developments. Agricultur – Industry – Trade and Commerce – Urbanization, Art and Architecture – Fine Arts – Education and Literature.

Unit 6: Impact of Islam on Indian Society and Culture - Bhakti and Sufi Movements - Emergence of Composite Culture.

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Unit 8: Advent of European Powers – Portugene, Dutch, English and French Expansion and Consolidation of British Empire – Wars – Diplomacy – Policies Pursued – Subsidiary Alliance – Doctrine of Lapsey Economics Policies and Changes – Meramillism and Free Trade Policies – Land Revenue Settlements – permanent – Ryowari – Mahlawari Systems – Irrigation – Land Revenue of Contract – Condition of Pressants – Paninse – Decline of Cottage Industries.

Unit 9: Anti-colonial Upsurge - Peasant and Tribal Revolts, Revolt of 1857 - Causes - Nature and Results.

Unit 10: Factors for Social Change – Christian Missionaries – Western Education – Emergence of New Middle Classes – Growth of Press – Socio-Religious Reforms Movements – Brahma Samaj – Arya Samaj – Theosophical Society – Ramakrishna Mission – Aligarh Movement – Jyotiba Phule – Narayana Guru, Periyari Self-Respect Movement – Dr. B.R Ambeddar.

Unit 11: National Movement - Factors for the Growth of Nationalism - Indian National Congress - Three Phases of Freedom Struggle - Revolutionary Movements - Left Wing Movements - Peasant and Workers Movements.

Unit 12: Emergence of Communal Trends - Partition of India - Integration of Princely states into Indian Union - Formation of Indian Republic. Jawaharlal Nehru as first Prime Minister and his





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### 31. ECONOMICS

MICRO ECONOMICS

Attroduction: Deportune of Economics. Definition: Wealth, Welfare, Scarcity and Growth. Seq and Limitations. Micro and Macro Analysia. Approaches to Economic Analysis. Posterial Equilibrium, Comparature Solice and Dynamic analysis, Postore and Normarize Approaches

Unlay Analysis: Cardinal Unlay Theory, Law of Diminishing Marginal Unlay, Law of Engi-Marginal Unlay, Computer Equilibrium, Ordinal Utility Theory: Indifference Curv. Analysis. Consumer's Equilibrium. Pire, Income and Substitution Effects. Types of Goods: Nermal, Indicate and Guffen Goods. Correlation of Indifference Curv. and Marche Demand Curv. with the halp of Indifference Curv.

opply and Demand Analysis: aw of Demand, Movements and Shifts

Law of Derindin, Sucremental and smalls in Contains Curv. Essentity of Mellander, Prior, recording and Cross Election, Dingere of Electricity, Merchands of Measuring Electricity are of Demands Point, Are and Outlay Methods. Law of Singuly, Movement and end Shafts on Singuly, Curver. Electricity of Supply Theory of Paris-Major, Demanding of Buggley curve.

Concept of Production. Production Paractions. Linear and Nan. - Linear Honogeneous Production. Descriptions. Science of Productions. Incorporates. State of Productions. Incorporates. State of Productions of State Commission of Versich Returns to Scale. Economies of Scale and Scope. Limitations of Production. Function Analysis Production. On the Commission of Scale and Scope.

Money, Accounting, Real, Opportunity, Economic, Implicit and Explicit, Short Hun, Long Shin, Fland and Variable Coints, Concepts of Tetal, Average and Marginal costs. Derivation of Long run Average and Marginal Costs Curves in Short run and Long Marginal Costs Curves in Short run and Long

### MACRO ECONOMICS

Measting, Scope and Limitations of Macro Economics, National Income: Concepts, Methods of Measurement and Officialities in Estimation of National Income and Limitations National Income as a Measure of Welfore, Social Accounting. Theories of Outrast and Employment.

The Classical Theory of Emphysical flay's law and Figura Wage out Fidiny) and Criticism, Krymein Theory Effective Demand, Aggregate Demand and Aggregate Simply Function, Consequenties Function Factors influencing constituinties function, breestment Multiplier its relevance in emerging economic Concept of Accelerator

Copinal and Investment: Types of Secretarion, Determinants of level of Seventment, MICC Section and Ex-Amic Investment and Savings-Classical, No-classical And September Theories of Interest, Lapichly Trap, Simultaneous Determination of Interest and Real Income through IS-LM Pronessick in a close

Economy

Supply of Money & Demand for Honey

Definition of Money - Money Supply: Measures of Money Supply (M. M2, M3 & M4). ISB approach t

Definitions of Monity: Minary Bioppicy Measures of Bioresty Riggiby Def., MZ, MA S. No. 1911 approximate money scappic. High powerful measury and money compiler. Central of minary snapple, Variations money approximate the properties of the Constitution of States of the Constitution of States of the Constitution of the Consti

Inflation & Business Cycles Definition of Inflation: Gauses, consequences and control of inflation. Deflation and ningfacion, Nature, Characteristics and Flusies of Business Cycles. Simulation: Business Cycle Theory Stock market-meaning, functions; Insurance-Life insurance and General Insurance.

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### MICRO ECONOMICS Types of Revenue and Objectives of Fit Rebuser of the Firm Convert of Rec

Relativise of the Firm. Converge of Revenue: Total Research (TR), Average Revenue (AR) and Margin Everunic (RAS). Relationship between AR and MR and the Essativity of Market Cremani Tradition Objectives of the Firm: North Maximutation, Modern Objectives of the Firm: Output/Sides/Market Sha Maximization.

Classification of Market. Perfect Composition, Short Run and Long Run Analysis. Equilibriums of the Firm and Industry, Manapoly Festures, Equilibrium. Discriminatory Pricing, Differences between

Perfect Competition and Monopoly.

Monopolistic Competition and Oligopoly Markets

Monopolistic Competition. Product Differentiation, Belling Costs. Oligopoly: Homogeneous an Heterogeneous Oligopoly, Price Rigidity in Oligopoly. Kinky Destand Curve.

Pricting Scrittiges

Cost Plus Pricting, Marginal Cost Plus Pricting, Marginal Cost Pricting, Rate of Returns Pricting, Product, I.
Pricting, Price Skirmming, Percentation Pricting, Marking Pricting, State Intervention and Administered Price
Distribution and Factor Pricting
Functional and Personal Distributions Marginal Productivity Theory of Distributions. Bioards Theory

Incomparis and Pricting Distributions Marginal Productivity Theory of Distributions. Bioards Theory

Full-timent and Quaris Ment. Theories of Wages. Theories of Profits Hall and Quaris Ment Theory of Interfactors. Mental Theory of Interfactors. Mental Theory of Series and Quaris Ment. Theories of Wages. Theories of Profit. Hall and Uncertainty, Concept of Interest.

PUBLIC ECONOMICS

Public Expenditure
Theories of puttle expenditure. Wagger? a low of increasing state activities. Proceed: Wisernam hypothesis: Principle of Mandatum Social advantage—Growth and pattern of public expenditure. Transition & Public Publi

Approximes to taxionin-thener approach, Abany to pay approach and neutranily approach—Existing and budyancy of taxion-incidence and shifting of taxion-Types and classification of taxes and VAT, Approaches to public debt.

Pineal Policy & Federal Pinance

Definition of faced policy and in subjectives; Fixed Policies for refloributions of incurse and wealth and stabilization – faced policies in a developing country, federal financial structure and its main festures— Direct inasc-bassine tax Corporate axx. Indirect tax structure. Union excise duties, customs duties, sales axx.—VAT, Centre State financial Relations.

Budget: Budget — Classification of budget »-Economic, functional, organizational, classification budgets performance programming and zero bused budgets performance programming and zero bused budgets surplus, balanced and delicit and seconomic programming and zero bused budgets surplus, blanced and self-budgets (oncepts of budget delicit and self-programming and programming and pr

### DEVELOPMENT ECONOMICS Economic Development and Green

Cancepts of Economic Generals and Development, Measurement of Economic Development, Per Capit Locotter, Basic Needs, Physical Quality of Life Index, Human Development Index, and Gender Enquiverment Measure. Role of State and Market in Economic Development. Expression (Economic Development)

Pactors officing Economic Development-Characteristics of developing Countries Population and Economic Development - Theories of Demographic Texastion. Human Resource Development and Economic Development

Theories of Adam Smith, David Ricardo, Karl Marx and Schumpeter

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Lewis, Rodan, Libenstien, Nurkae's Balanced Growth Strategy, Hirsch man's Un-balanced Growt Strategy, Myrdal model.

INTERNATIONAL ECONOMICS

Theories of International Trade: Theories of absolute advantage, comparative advantage and opportunity costs. Theorem of Sector price spanisation, - Heckacher - Ohlio theory of trade.

Trade and Growth

Cains from Trade-Trade as an Engine of Economic Growth. Concepts of Terms of Trade-Factor
affecting Terms of Trade-Singer-Problem secular determination of Terms of Trade-

affecting Terms of Trade. Singer-Prehish secular deterioration of Ten-Barriers to Trade.

Tariffe, Chapter and Subsidies and their effects. The verticus variety.

Concepts and Components of SOP, Equilibrium and disequilibrium in Balance of payments, Types of Disequilibrius. Remedial measures in control disequilibrium. Devakuation. Direction and Componition of

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### 19.TELUGU

### Part-A(40 Marks)

యూనిట్-1

1. ప్రథమ నంచత్సరం(ర్వితీయ భాష) - సాహితీ మంజీర - తెలుగు ఆకాదమి ప్రచురణ

ర్వితీయ సంవత్సరం/ర్వితీయ భాష) - సాహితీ కిన్నెర - తెలుగు అకారమ్ (ప్రచురణ
 మూదవ సంవత్సరం/ర్వితీయ భాష) - సాహితీ దుందులై- తెలుగు అకారమ్ (ప్రచురణ

4. ప్రభమ సంవత్సరం(అధునిక భాష) - ప్రాణహిత - తెలుగు అకాదమి ప్రచురణ

6. ఇంటరీడియట్ భురమ సంవత్సరం(దింతీయ భాష) - సహోదయం -తెలుగు ఆకాదమి భురురణ

7. బంటర్నీడియట్ ర్వితీయ సంవత్సరం(ర్వితీయ భాష) – శుభోరయం– తెలుగు జకారమ్ ప్రచరణ

### Part-B(60 Marks) యూనిట్-!! (30 మార్వులు)

బ్యాబేరణం-భాష 1. వర్యాయ పరాలు, నానార్వాలు, సంధులు, సమాసాలు, తెలుగు వాక్సబ(సాహితీ మంజేర – తెలుగు

జరాదమి భవరంలో ఇచ్చిన వాజ్మరణాంకాంను చదుప్రకోవాలి.) 2. **భందన్ను** – ఉత్పలమాల, చంపకమాల, శార్వులం, మక్రేభం, ఆటవెంది, తేటగీతి, ద్వివర, సీసం, కందం, ఉత్పాహం, తరశం, భగ్గర, మహాభగ్గర, ముత్కారనరం

కర్ణాంతారాణ : వృత్యమస్థాన, రేకామస్థాన, లాటామస్థాన, అంక్యామస్థాన, యమకం,

ముక్తపదగ్రస్తాలంకారాల

అర్థాలంకారాలు : ఉపడు, ఉత్రేశ్ర, రూపక, స్వభావోక్తి, ఉల్లేఖ, అర్హాంతరర్మాన, శ్రేష, 

## కెలుగు సాహిత్య చరిత్ర

1. సాహిత్య చర్మిత అధ్యయన ప్రయోజనం – యాగ విధజన తీరు

ప్రాబ్నప్పడు యుగం - కవిత్రయ యుగం - భారతం జతర రచనలు 2. శివకవుల యుగం - పాల్పురికి సోమనాభుడు

కావ్యయుగం – క్రీనాధురు – పోతన

3. ద్రవంధ యుగ లక్షణాలు - విశేషాలు

ఇష్టవిగ్గట కవుల పరివయం ... వివరంగా తెలుపుకోవల్సిన కవులు – 'పెద్దర, తిమ్మక, శ్రీశృష్ణవేరరాయలు, ధార్జలి, రామరాజ భాషణుడు మొదలైన వారు

### CPGET-2024 Syllabus

పరికష్టలు : అస్పమయ్య, అగ్గాయ్య, రామరాను, రాకమర్ల నెంకలరాను, పోతుబారి వీర్యుస్తాం
 తత సాహిత్య పరిచయం - సమకీ, నేమన, ధర్మప్రరి శేషప్ప, దాశరథి శతశాలు యక్షగానాలు - వెర్వికాల జాగియ్య.

1. ఆధునికత నేపథ్యం 2. కందుకూరి వీరేశరింగం 3. గందజాద వెంకట అస్వారావు

విశ్వనాధ సక్యనారాయణ 4. గు్యం జాషన 6. శ్రీశ్రీ
 మాదపాటి హనుమంత రావు 2. సురుకరం భుకాపరెస్టి 3. జాకోజీ నారాయణ రావు

4. జాకరథి కృష్ణహరావ్యలు న్. సి. జారాయణ రెక్టి

పల్లికోట అక్సార్ స్పాపి 1. భాస్తరక్కు కృష్ణాలపు 3. యం.పి. తిరుపకయ్య

4. బాశరథి రంగాదార్య 5. సమీప

1. శ్రీనార సుబస్వాబ్య తార్టీ 2. మధురాంశకు రాజురాం 3. సిబ్బరి కేశవ స్వామ

4. ringet flower

1. పి.వి. రమణ 2. సంకర సత్యనారాయణ 3. శివైఎల్ సర్బించోరావు.

මහර අත් ජවල් 11. 1. පෙල්රය - මරුණ - මහර - මහර මෙල ජල්ල්ලි - පැඩු 2. క్రావిర భాషలు, క్రావిర భాషల్లో తెలుగు స్వేసం

కెటగారో మాంధరికి విజ్ఞనం - మాంధరికి కోరాలు
 కెలంగాజ ఖాషా స్వరామ - కుం, ష్కర్టి మాంధరితాలు.
 ర్వరి పరిజానుం - పద్ద సమీకరణం, పద్ద విజ్ఞియం, పద్ద సామ్మం.

 ర్లు లయాబర - అల్ల ముందులు, పట్ట బ్రామం, పట్ట ప్రామం, పట్ట స్టామం, పట్ట సాయ్యం.
 పట్ట పరియామం - అల్ల సంతోరం, ఇల్ల్ వ్యాయ్లింది.
 పట్టుకోవ్యాలు - తెలుగలో చట్సా అంగ్ల, కనింద, కన్నడ, తిలిది, పోల్పగు మెజ భావిగులు ప్రవేటిందని కేరం తొలంగాణ ప్రాంకింద ఉదారి రజను కూలా మ్యాలనికి భాషాపరాలు ప్రవేశించిన తీరు జర్మావకులు ప్రచుత్నించాలి)

### 2. ಆದಾನ - ಭರ್ವಾಯ ప్రాలీన సాహిత్య విమర్శ :

కావ్య నిర్వవసములు
 కావ్య భురహించాలు, కావ్య హేశువులు

 18. కాన్మాత్మ
 19. రస సిద్ధాంతం - నిర్వవసం రస సంఖ్య - రసము స్థాయా భానాలు రస సిస్ట 20. ම ද දුරණුක - මෙරු දෙස. දිදහන් ප්රජු විදුන්ග වූ එතු දුරණුක පාත්ර දෙන් සඳහා (Maltiple Choice)ගම් ණයීර ප්රජ දුරණුක සමුජා පාතිණි වර්ද්රිය සෞකාධ සරමුණුන්වලි වර්දුගතම.





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CPGET-2024 Syllabus

### 13. ENGLISH

## Part A-40 Marks

- Spelling & Punctuation
- Vocabulary: Antonyms Synonyms One-word substitutes Words often confused Idiomatic expressions
- Grammar: Tenses Propositions Concord Auxiliary verbs Active passive Voice
- · Correction of sentences: Identify the error Identify the correct sentence
- Exercises in Jumbling: Jumbled words to be arranged in the right order to form a sentence
   -Paragraph sequencing.

### Part B-60 Marks

- History of English Literature
- Literary Terms
- Literary Forms
- Literary Movements
- · Books & Authors (canonical texts)
- Comprehension (Poetry)
- · Comprehension (Prose)

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CPGET-2024 Syllabus

## 11. ANCIENT INDIAN HISTORY, CULTURE & ARCHAEOLOGY (AIHCA)

Part - A: (40 Marks)

Fundamentals of Indian Archaeology, Indian Art and Architecture

Part - B: (60 Marks)

Indian History from the earliest time to the present day including political, social, economic, religious and cultural aspects.

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