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SRI ASNM GOVERNEMENT (A) COLLEGE, PALAKOL.

DEPARTMENT OF BOTANY

STUDENT ASSIGNMENTS

2020-2022

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STUDENT ASSIGNMENTS

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1	28-11-20	Biogeo Chemical cycles	W
2	8-12-20	Rituones Phenones	TV
3	22-1-21	Propagation of ornamen- tal plants	W
4	26-1-21	Endemic, Endangered plante	\mathcal{W}
5	21-2-21	Botanial Gardens	W
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STUDENT ASSIGNMENTS

2020-2021

DEPARTMENT OF COMPUTER SCIENCE

The Department of Computer Science (M.P.Cs, M.C.Cs) conducted assignments to all the First Year, Second year and Final year students for the Academic year 2020-2021 during the regular classes. The list questions given by the lecturers for **Semester-I** Paper-1 (Problem solving in C), **Semester-II** Paper-2 (Data structures using C), **Semester -III** Paper-III (Object Oriented Programming using JAVA), **Semester-IV** Paper-IV (Data Structures), **Semester-V** Paper-V (DBMS), Paper-VI (Software Engineering) and **Semester- VI** Paper-VII (Web Technologies), Paper-VIII. B1(Distributed Systems), Paper-VIII. B2(Cloud Computing). Students write the assignment on given day by the lecturers, the details and list questions are given below.Marks are noted in assignment register.

List of Assignment Questions:

Semester-1, Paper-1 (Problem solving in C).

1. Define Computer. Draw and explain architecture of computer?

2. What is an algorithm. Explain characteristics of algorithm?

3. What are the different types of decision control statement explain each?

4. Explain break and continue statements?

5. Write a program to generate first N terms of Fibonacci sequence?

6. What is an Array? Explain different types of arrays with examples.

7.Write a program to add two matrices.

8.Define string. Explain various string handling functions available in C.

9.Define recursion.Write a program to find the factorial of a given number using

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3	A.KANAKA DURGA	5	5	
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Semester-II, Paper-II (Data structures using C).

- 1. Explain about Binary search tree.
- 2. What is Linked list. Explain different types of linked lists in Data structures.
- 3. Explain different types of Arrays.
- 4. Explain different applications and properties of Binary tree.
- 5. What are the applications of Stacks?
- 6. Define Linear and Nonlinear Data structures.
- 7. What is searching explain Linear search.
- 8. Discuss about Graph Travelling techniques.
- 9. Explain Atomic linked list.
- 10. What is dequeue, what are the different techniques used to represent dequeue, explain.
- 11. What is stack write ADT, Explain various operations on Stack.
- 12. Discuss about the classification of Data structures.

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Semester –III, Paper-III (Object Oriented Programming using JAVA).

1. What is an attribute, explain various types of attributes.

- 2. Classification of DBMS.
- 3. Describe Generalization and Specialization in DBMS.
- 4. Define DBMS. explain advantages of DBMS.
- 5. What is SQL, explain different types of commands in SQL.
- 6. What is PL/SQL explain the types of PL/SQL.
- 7. What is Normalization explain 1NF, 2NF and 3NF.
- 8. Explain Relational algebra operations.
- 9. Define View, explain concept of view.
- 10. Explain concept of functional dependency.

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Semester-IV, Paper-IV (Data Structures).

- 1. Explain features ion JAVA.
- 2. Define Operator, Explain various Binary Operators.
- 3. Explain Conditional Statements in JAVA.
- 4. Write a Program find sum of in numbers by taking value from keyboard using Scanner class.
- 5. Define Interface implement multiple inheritance using interface.
- 6. Explain concept of Exception Handling.
- 7. Explain concept of thread life cycle.
- 8. Define applet, explain how to create applet with an example.

9. Explain the procedure to connect oracle database using JDBC-ODBC drivers.

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Semester-V, Paper-V(DBMS).

- 1.Define DBMS. Explain classification of DBMS
- 2.Explain file based system versus DBMS.
- 3. What is Database? Discuss various data models.
- 4. What is DBMS? Explain levels of abstraction in Database.
- 5. Explain subqueries.
- 6. Explain various types of Keys.

7. What is Specialization and Generalization.

8. Explain types of Triggers in detail.

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Semester-V, Paper-VI (Software Engineering).

1) What is SDLC?

2) What are the various models available in SDLC?

3) Explain the term Baseline.

4) What are the responsibilities of a Software Project Manager?

- 5) What is Cohesion?
- 6) What is Coupling?

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7) Explain the concept of Modularization.

Semester- VI, Paper-VII (Web Technologies).

- 1. Explain concept of web services .
- 2. Briefly explain Document Object Model (DOM).
- 3. Explain about data validation with an example.
- 4. How does a web service work.
- 5.What is web service.

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Paper-VIII.B1(Distributed Systems).

1.Explain about distributed computing systems.

2.Explain about system models.

3.Write Features of message passing system.

4.Explain stub generation and RPC messages.

5.Explain about client server binding.

6.Write about DSM advantages.

7.Explain about deadlock.

8.Explain about process migration.

9.Explain about different file accessing models.

10.Explain about Digital Signatures.

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Paper-VIII.B2(Cloud Computing).

- 1.Explain about cloud components.
- 2.Explain about essential characteristics.
- 3.Explain about security benefits.
- 4.Explain cloud architecture.
- 5.Explain about salesforce.
- 6.Write IaaS service providers.
- 7.Explain about client deployment model.
- 8. Explain advantages of cloud computing.
- 9.Explain about virtuialization.
- 10.Explain about desktop virtualization.

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MSDS(MATHS, STATISTICS, DATA SCIENCE):

Semester- I, Paper-I (Introduction to Data Science and R programming).

- 1. Explain different phases of facets of data.
- 2. Explain Read R package
- 3. What are the applications of machine learning in data science.
- 4. What are the different challenges that w face when handling large data.
- 5. What is meant by data frame in 'R'. Explain dplyr package.
- 6. What are the different types of big data.
- 7. What are the four steps in modeling process in machine earning.
- 8. What is meant by debugging.

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MSDS				
1	B.DHIMSAIBABU	5	5	
2	B.SAI ARAVIND	5	5	
3	G.NAVEEN BABU	5	5	
4	G.YESWANTH	5	5	
5	I.DANIEL FRANKLIN	5	5	
6	I.SIDDARDHA	5	5	
7	J.MANIKANTA	5	5	
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9. What are the different types of machine learning processes. Explain detail.

Semester- I, Paper-II (Data Mining concepts and Techniques).

- 1. What is Data mining explain the architecture of Data mining.
- Discuss issues to be considered during data integration of Data mining system with a ware house.
- 3. Explain Apriori method.
- 4. State Bayes theorem and explain Bayesian belief network.
- 5. Define support and confidence in association rule mining.
- 6. Discuss reasons to perform data pre-processing.
- 7. Describe data characterisation.
- 8. What is SVM? Explain linearly separable data.

S.NO	NAME OF THE STUDENT	ASSIGNMENT-1	ASSIGNMENT-2	REAMRKS
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1	B.DHIMSAIBABU	5	5	

2	B.SAI ARAVIND	5	5	
3	G.NAVEEN BABU	5	5	State State
4	G.YESWANTH	5	5	
5	I.DANIEL FRANKLIN	5	5	1000
6	I.SIDDARDHA	5	5	
7	J.MANIKANTA	5	5	
8	K.CHANDU	5	5	
9	К.ВАВЛ	5	5	
10	MANJIBABU	5	5	
11	P.DIVYAKANTH	5	5	
12	P.SUNEEL	5	5	
13	PELISHA	5	5	
14	R.NAVEEN	5	5	
15	T.L.P.T.N.B.SUBRAHMANYAM	5	5	
16	V.VINOD	5	5	
17	Y.HEMANTH DATTATREYA	5	5	

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COMPUTER SCIENCE DEPARTMENT

Page 15

SRI A.S.N.M GOVERNMENT COLLEGE (A), PALAKOL, W.G.DT-534260.





2020-2021

DEPARTMENT OF MATHEMATICS

Department of Mathematics

Page 1

The Department of Mathematics conducted Assignments to all the First Year, Second year and Final year students for the Academic year 2020-2021 during the regular classes. The list questions given by the lecturers for Paper-1 (Differential equations), Paper-2 (Solid Geometry), Paper-III (Group Theory), Paper-IV (Real Analysis),Paper-V (Ring theory and Vector Calculus) Paper-VI (Linear Algebra), Paper-VII (Numerical Analysis) and Mathematics Cluster Papers. Students write the assignment on given day by the lecturers, the details and list questions are given below.Marks are noted in assignment register.

Assignment questions: Differential Equations

- 1. Solve $x^2 y \, dx (x^3 + y^3) dy = 0$
- 2. Solve $\frac{dy}{dx} + \frac{y}{x} = y^2 x \sin x, x > 0$
- 3. Solve $p^2 + 2py \cot x = y^2$
- 4. Solve $(D^2 + 3D + 2)y = xe^x sinx$
- 5. Solve $(D^2 + a^2)y = \tan ax$ by the method of Variation of Parameters

Assignment questions: Solid Geometry

- Find the bisecting plane of the acute angle between the planes 3x-2y-6z+2=0,-2x+y-2z-2=0
- 2. Find the image of the line $\frac{x-1}{2} = \frac{y-2}{3} = \frac{z-3}{4}$ in the plane x+y+z=1
- 3. Find the equation of the Sphere passing through the circle $x^2 + y^2 = 4$, z = 0 and is intersected by the plane x + 2y + 2z = 0 in a circle of radius 3
- 4. Show that the two circles $x^2 + y^2 + z^2 y + 4z = 0$, x y + z = 2, $x^2 + y^2 + z^2 + x 3y + z 5 = 0$, 2x y + 4z 1 = 0 lie on the same sphere
- 5. Find the equation of the right circular cone whose vertex is P(2,-3,5), axis PQ which makes equal angles with the axes and semi-vertical angle 30°

Assignment questions: Group theory

- 1. Prove that in a Group G, for $a, b, x, y \in G$ the equation ax=b and ya=b have unique solutions
- 2. State and prove Lagrange's theorem
- 3. State and prove fundamental theorem of homomorphism on groups
- 4. State and prove Caley's theorem
- 5. Every finite Integral Domain is a Field

Assignment questions: Real Analysis

- 1. State and prove Monotone Sequence theorem
- 2. State and prove Ratio Test
- 3. Examine the continuity of f by f(x) = |x| + |x 1| at x=0,1
- 4. State and prove Rolle's theorem
- 5. State and prove fundamental theorem on integral calculus

Assignment questions: Linear Algebra

- 1. Necessary and Sufficient Condition for W to be a Subspace of V is $a, b \in Fand \ \alpha, \beta \in W \Rightarrow a\alpha + b\beta \in W$
- 2. Let W be a subspace of a FDVS V(F) then $\dim\left(\frac{V}{W}\right) = \dim V \dim W$
- 3. State and prove Rank-Nullity theorem
- 4. State and prove Caley-Hamilton theorem
- 5. State and prove Cauchy-Schwarz Inequality

Assignment questions: Ring Theory and Vector Calculus

- 1. The Characteristic of an integral domain is either a prime or zero
- 2. State and prove fundamental theorem of homomorphism of on Rings
- 3. If a = x + y + z, $b = x^2 + y^2 + z^2$, c = xy + yz + zx; then prove that [grad a, grad b, grad c] = 0.
- 4. State and prove Gauss Divergence theorem
- 5. State and prove Stoke's theorem

Assignment questions: Numerical Analysis

- 1. State and prove General error formula of function of n variables
- 2. Find a real root of the equation $x \log_{10} x = 1.2$ by using Regula-Falsi method
- 3. State and prove Gauss Backward Interpolation formula
- 4. State and prove Newton Divided difference formula
- 5. State and prove Lagrange's interpolation formula

Assignment questions: Special Functions

- 1. Prove that $\int_{-\infty}^{+\infty} e^{x^2} Hn(x) Hm(x) dx = \{ \frac{0}{\sqrt{\pi}x^2 n!} \quad if \ m \neq n \\ if \ m = n \end{cases}$
- 2. Prove that $L_n(x) = \frac{e^x}{n!} \frac{d^n}{dx^n} (x^n e^{-x})$
- 3. Prove that $P_n(x) = \frac{1}{n!2^n} \frac{dy}{dx} (1 x^2)^n$
- 4. Prove that $xJ_{n'}(x) = nJ_{n}(x) xJ_{n+1}(x)$
- 5. Prove that $\beta(l,m) = \frac{\lceil l \rceil}{\lceil l+m}$.

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The following assignments are given for I B.Sc II sern students

1. Chromatic abberration and condition for achromatism. 2. Spherical abberration and Elimat Elimination methods

3. Michelson interferometer

4. = one plate construction and working

5. construction and working of Nicol prism 6. Astignation

C. Astignation 7. Differentiate fresnel and

7: Differentiate fressel and fraunholfer diffraction. 8: He - Ne Laser

8. He-Ne Laser

9. principles of optical fibre communication 10. Applications of Lasers and holography

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2.	02	B.N.D. Madhavi	5	B.N.D madhavi
3.	17 03 1	ch-Radha	5	ch-Radha
.4.	05	G. Rupendora	5	G. Rupendra
.5	06	G. Bhavani	4	G. Bhavani
. 6.	08	G. Neelina Rani	4	6. Neelimatani
. 7.	(0	N. Lavanya	5	N. Lavanya
.8.	11	P. Laki Baby	5	P. Laki babu.
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10 -	13	T. Jahnari	5	T. Tabnavi
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n	15	V. SriVallika	5	V- Srivallika
13	16.	Y. Venkata Lakehmi	5	Y. venkata Lakshmp
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29	33	Ch. Ashok Kumar.	5	ch.Ashok Kumar
30	14.34	D. Sai Baby	4	D Sai babu
3)	35.	D. Mudde Siva	5	0. muddu siva.
31_	36.	G. Suresh Kumar	14	G. Swich Kunn
33	10 31	G. Kalyan Kumar.	4	G. Kalyan Kumar
34	38	G. Dinesh Babu	4	G. Drnesh Babu
35	101 12 40.	K. Chandy	4	k.chandy
36	41	K. Shalem Raju	4	K. Shalem Raju.
31	42	K. Issac	5	K. Issar.
38	43	K. Bhargari	5	K. Bhangavi
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40	46.	N. Pionna	4	N pionna
.41		P. Shyam Narsimha	5	P.Shyam Natsimha
42	48	P. L. Narayana	5	P.L Masayana
43	49	1. Jahnavi	5	P. Jahnavi
44	50.	S. Rajesh	5	S. Rajesh.
45	53	V. Amala Kumari	5	v. Anala Kuman
40	54.	V. Vamsi Krushna	4	V. Aatala.
41	55	V. Kota Ganesh	5	V- Kota hancsh.
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