



Gokak Education Society
J.S.S. Arts, Science and Commerce College, Gokak
 NAAC accredited at 'A' grade with CGPA 3.15 in 4th Cycle
 Affiliated to Rani Channamma University, Belagavi



www.jssgokak.in

jssgokak@gmail.com

08332 225141

Calendar of events prepared by IQAC

G.E. Society's
J.S.S. Arts, Science and Commerce College, Gokak
 (ACCREDITED AT 'A' WITH 3.10 CGPA IN 3rd CYCLE)
 Website: www.jssgokak.in : 08332 - 225141 Email: jssgokak@gmail.com

Calendar of Events 2022-23

The calendar of events was prepared as per the direction of Registrar, RCUB dated 15-07-2022

I and II-TERM

Sl. No.	Month	Activity
01	July-2022	<ul style="list-style-type: none"> ➤ Start of I SEM admissions ➤ Conduct of meeting on reopening day ➤ Admission work (start of first sem NEP for the academic year 2022-23) ➤ Preparation of time table and distribution of work ➤ Induction programme for first sem students ➤ Conduct of workshop on Candle Making, Preparation of Soaps and Detergents by Department of Chemistry for final year students ➤ Conduct of KSTA sponsored One Day National Conference on 'Recent Advances in Chemical Science' organized by Department of Chemistry
02	Aug-2022	<ul style="list-style-type: none"> ➤ Commencement of I SEM classes ➤ Celebration of Independence Day ➤ Observation of Librarian Day
03	Sept-2022	<ul style="list-style-type: none"> ➤ Observation of Rhastriya Hindi Diwas ➤ Observation of Teachers Day
04	Oct-2022	<ul style="list-style-type: none"> ➤ Observation of Gandhi Jayanthi ➤ Commencement of III and V SEM classes ➤ Commencement of first internal test for I SEM
05	Nov-2022	<ul style="list-style-type: none"> ➤ Celebration of Karnataka Rajyothasava ➤ Commencement of second internal test for I SEM ➤ Observation of Mahakavi Shri Kanakadas Jayanthi
06	Dec-2022	<ul style="list-style-type: none"> ➤ End of I SEM classes ➤ Commencement of I SEM Practical and Theory Examinations ➤ Observation of National Mathematics Day

IQAC Co-ordinator
J.S.S. Arts, Science and Commerce College,
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GOKAK
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07	Jan-2023	<ul style="list-style-type: none"> ➤ Commencement of II SEM classes ➤ Observation of National Voters Day ➤ Celebration of Republic Day
08	Feb-2023	<ul style="list-style-type: none"> ➤ End of III and V SEM classes ➤ Commencement of III and V SEM Practical and Theory Examinations ➤ Observation of National Science Day
09	Mar-2023	<ul style="list-style-type: none"> ➤ Commencement of first internal test for II SEM ➤ Observation of International Women's Day ➤ Commencement of IV and VI SEM classes
10	Apr-2023	<ul style="list-style-type: none"> ➤ Commencement of second internal test for II SEM ➤ Observation of Dr. B. R. Ambedkar Jayanthi
11	May-2023	<ul style="list-style-type: none"> ➤ End of II SEM classes ➤ Commencement of first internal test for IV and VI SEM ➤ Sameelana: A gathering of Alumni and Parents organized jointly by Alumni Association and Parent-Teachers Cell
12	Jun-2023	<ul style="list-style-type: none"> ➤ Commencement of second internal test for IV and VI SEM ➤ Observation of World Environmental Day ➤ NAAC Peer Team Visit
13	Jul-2023	<ul style="list-style-type: none"> ➤ Conduct of one-day workshop on 'Implications of IPR on startups' jointly organized by Department of Chemistry, Department of Commerce and Alumini Association
14	Aug-2023	<ul style="list-style-type: none"> ➤ Conduct of one-day workshop on 'Research Methodology' jointly organized by Department Physics and Department of English ➤ Conduct of one-day workshop on 'Gender Equality' organized by Women Empowerment Cell ➤ Celebration of Independence Day ➤ Observation of Librarian Day ➤ Conduct of meeting to enter the IA marks in UUCMS portal ➤ Commencement of II, IV and VI SEM Practical and Theory Examination

[Signature]
 Co-ordinator

J.S.S. Arts, Science and Commerce College,
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College Examination Committee

(including Home assignment and IA Marks filling, sending to University)

Sl. No.	Name of the Staff	Role	Signature
01	Dr. U. M. Shagoti	Convener	
02	Dr. Umesha B.	Member	
03	Prof. Abhay R	Member	
04	Prof(Smt). D. A. Hulabandi	Member	
05	Prof. V. C. Hunachyali	Member	
06	Prof. A. M. Patil	Member	
07	Shri M. V. Dodamani	Technical Staff	
08	Smt. S. P.Jadhav (Tikkekar)	Technical Staff	
09	Smt. Vidyashree Shiragannavar	Technical Staff	

10 Smt Sunita. Kambar.

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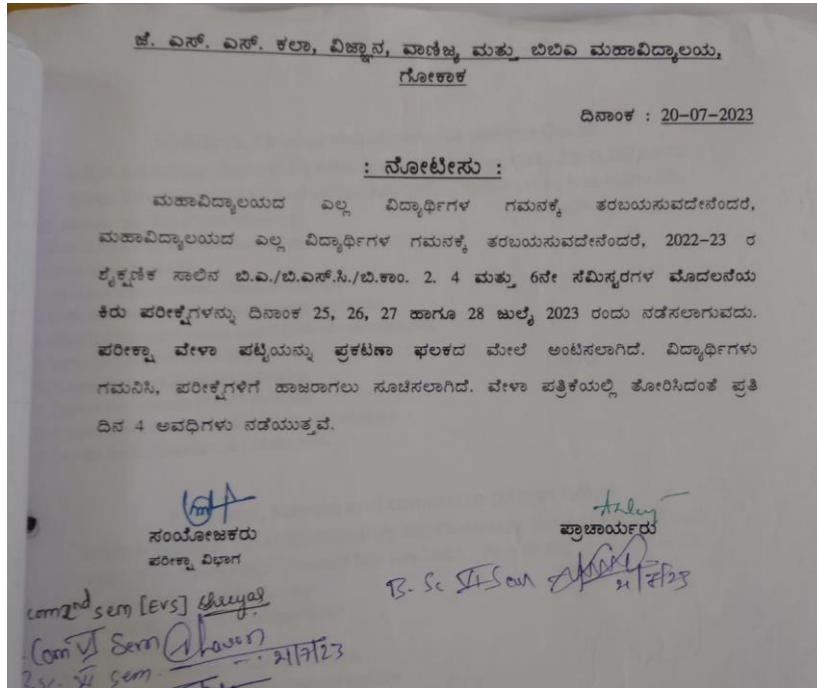
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J.S.S. Arts, Science and Arts College, Gokak

Date: 20-07-2023

I.A. NOTICE

The II, IV and VI semesters students of B.A., B.Sc., and B.Com. are hereby informed that the first internal test will be commenced from 25, 26, 27 and 28 JULY, 2023. The time-table for the commencement of internal exam is displayed on the notice board. The students are asked to go through the time-table and attend accordingly.



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I.A. Time-table

JSS Arts, Science & Commerce College, Gokak
 First Internal Time Table – July 2023

Day/Date	Time	BA			B.Com			B.Sc		
		II Sem	IV Sem	VI Sem	II Sem	IV Sem	VI Sem	II Sem	IV Sem	VI Sem
Tuesday 25/7/2023	9.00 to 10.00 am	Basic English	History- I	Economics-I	Basic English	Hindi	-----	Basic English	Botany	Physics P-I
	11.30 to 12.30 pm	Basic Kan	Economics-I	Pol.Sc-I	-----	-----	Service Marketing	Basic English	Basic English	Comp. Sc- I
	1.30 to 2.30 pm	History- I	Pol.Sc- I	Sociology P-I	Env. Studies	Basic Kannada	Costing-II	Env. Studies	Comp. Sc	Zoology P-I
	3.30 to 4.30 pm	Opt. Eng P-I	Opt. Eng P-I	---	---	---	---	---	---	---
Wednesday 26/7/2023	9 to 10 am	Pol.Sc- I	IC	History- I	Fin. A/c-II	IC	---	Botany	Zoology	Chemistry P-I
	11.30 to 12.30	Economics-I	Pol.Sc- II	Economics-II	-----	Basic English	Consumer Behaviour	Chemistry	Chemistry	Botany P-I
	1.30 to 2.30 pm	History- II	Economics-II	Opt.Kan P-I Opt. Hindi-I	Basic Kannada	-----	IFIM	Maths	Maths	Comp. Sc- II
	3.30 to 4.30 pm	Opt. Kan P-I	Basic English	---	---	---	---	---	---	All SEC Subjects
Thursday 27/7/2023	9 to 10 am	Sociology P-I	Sociology-I	Opt. Kan P-II Opt. Hindi-II	Law & Practice of Banking	-----	Income Tax- II	Comp. Sc	Basic Kannada	Chemistry P-II
	11.30 to 12.30	Opt. Eng P-II	Opt. Kan P-I	Pol. Sc-II	Hindi / Urdu	Bus. Reg. Frame Work	-----	Physics	Physics	Maths P-I
	1.30 to 2.30 pm	Pol. Sc-II	Opt. Eng P-II	Opt. Eng P-I	-----	-----	Auditing	Hindi / Urdu	Hindi / Urdu	Zoology P-II
	3.30 to 4.30 pm	Opt. Kan P-II	Basic Hindi/Urdu	History- II	---	---	---	---	---	---
Friday 28/7/2023	9 to 10 am	All OEC Subjects	Sociology-II	Opt. Eng P-II	Economics OEC - I & II	Costing Methods	-----	-----	-----	Botany P-II
	11.30 to 12.30	Sociology P-II	History-II	All SEC Subjects	Corporate Administration	Corporate A/c	-----	Zoology	-----	Physics P-II
	1.30 to 2.30 pm	Economics-II	Basic Kan	Sociology P-II	-----	-----	-----	All OEC Subjects	-----	Maths P-II
	3.30 to 4.30 pm	Basic Hindi/ Urdu	Opt. Kan P-II	-----	-----	-----	-----	-----	-----	-----

Exam Co-ordinator Principal

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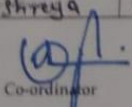
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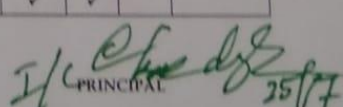
I.A. Supervision list

J. S. S. ARTS, SCIENCE , COMMERCE AND BBA COLLEGE, GOKAK (4261)
BA/BSC/BCOM II, IV & VI SEMESTER - FIRST INTERNAL TEST - JULY - 2023

ALLOTMENT OF SUPERVISION

Sl.No.	Name of the Jr. Supervisor	25-07-2023				26-07-2023				27-07-2023				28-07-2023				Signature
		I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	
		09-10	11-30-12-30	1-30-2-30	3-30-4-30	09-10	11-30-12-30	1-30-2-30	3-30-4-30	09-10	11-30-12-30	1-30-2-30	3-30-4-30	09-10	11-30-12-30	1-30-2-30	3-30-4-30	
01	Dr. B. N. Turadagi					✓	✓	✓		✓	✓	✓		✓	✓	✓		
02	Shri. A. V. Patil	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
03	Smt. J. S. Kothiwale	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
04	Dr. P. M. Yadav	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
05	Dr. T. C. Gopal		✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	
06	Dr. K. I. Indikar	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
07	Smt. Shilpa T.	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
08	Dr. P. P. Kattimani		✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	
09	Shri. H. S. Dasar	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
10	Shri. M. F. Nagannavar		✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	
11	Shri. Kanakaraj T. M.		✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	
12	Shri. Shivaprasadgunda Patil		✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	
13	Dr. N. L. Terada	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	
14	Dr. Rajeshwari H.V.	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	
15	Dr. B. M. Mastiholi		✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	
16	Dr. Vijayakumar Patil	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
18	Dr. Krishnamurthy M. S.		✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	
19	Dr. Viswanath C. C.	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	
20	Dr. Chidanand Masaraguppi	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
21	Shri. Mahadevappa Goragoddi	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
22	Dr. Mangesh Jadhav		✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	
23	Shri. R. K. Sali		✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	
24	Shri. S. S. Chavan	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
25	Shri. A. K. Kulkarni		✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	
26	Shri. M. M. Katti		✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	
27	Shri. G. K. Wadakar	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
28	Smt. S. A. Kolagudi	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
29	Shri. S. S. Pandrolli	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
30	Smt. R. A. Daswar	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
31	Min. A. P. Pawar	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
32	Shri. Rajat Pandit	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
33	Min. Reshma Jadh	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		
34	Min. Shreyas	✓	✓	✓		✓	✓	✓		✓	✓	✓		✓	✓	✓		


 Co-ordinator


 I/c PRINCIPAL 25/7/23


IQAC Co-ordinator
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J. S. S. ARTS, SCIENCE, COMMERCE AND BBA COLLEGE, GOKAK (4261)
BA/BSC/B.COM/BBA I, III, V SEMESTER
SECOND INTERNAL TEST - JANUARY - 2022
ALLIANCE OF SUPERVISION

Sl. No.	Name of the Sr. Supervisor	15-01-2022				20-01-2022				25-01-2022				Signature
		I	II	III	IV	I	II	III	IV	I	II	III	IV	
01	Prof.R.B.Hannanna	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
02	Dr. H. M. Turadagi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
03	Prof. R. M. Mahendrakar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
04	Prof. M. S. Terdal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
05	Prof. A. V. Patil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
06	Prof(Dr.) J. S. Kothiwale	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
07	Dr. P. M. Yadav	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
08	Dr. V. R. Shinde	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
09	Dr. T. C. Gopal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
10	Dr. K. I. Indikar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
11	Smt. Shilpa, T.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
12	Dr. P. P. Kattimani	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
13	Prof. H. S. Dhar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
14	Prof. M. F. Nagambhar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
15	Prof. Kanakaraj T. M.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
16	Prof. S. H. Patil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
17	Dr. N. L. Teradal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
18	Dr. Rajeshwari B. V.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
19	Dr. Vijayalaxmi Paloti	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
20	Dr. R. M. Mastholl	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
21	Dr. V. V. Patil	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
22	Miss. J. G. Polaski	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
23	Dr. M. S. Krishnamurthy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
24	Dr. Vishwanath C. C.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
25	Dr. C. A. Maaraguppi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
26	Shri. M. V. Geraguddi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
27	Dr. M. S. Jadhav	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
28	Shri. R. K. Sali	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
29	Prof. S. S. Chavan	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
30	Shri. M. M. Katti	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
31	Smt. S. A. Kalagudi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
32	Shri. S. S. Pandroili	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
33	Miss. A. P. Pawar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
34	Shri. Rajat Pandit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
35	Miss. S. G. Poojari	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
36	Shri. V. D. Shetti	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
37	Shri. K. M. Pujeri	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
38	Miss. R. C. Kati	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
39	Miss. S. A. Banakari	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
40	Miss. S. B. Mavinakatti	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
41	Shri. A. K. Kelliker	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

PRINCIPAL

Co-ordinator



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PRACTICAL EXAMINATION FEBRUARY - 2022

TIME TABLE

NAME OF THE COLLEGE & CENTRE CODE: JSS ARTS, SCIENCE AND COMMERCE COLLEGE, GOKAK (4261)

CLASS:- B.Sc. V SEM SUBJECT: PHYSICS

Date	Batch No.	Paper - I				Paper - II						
		Time : 9.30 to 1.30	No. of Students	Batch No.	Time : 2.00 to 6.00	No. of Students	Batch No.	Time : 9.30 to 1.30	No. of Students	Batch No.	Time : 2.00 to 6.00	No. of Students
10-02-2022	01	S1917001, 005, 006, 007, 009, 010, 011, 012, 013, 014, 015, 016	12	02	S1917 019, 020, 022, 023, 025, 029, 030, 031, 033, 035, 036, 038	12	02	S1917019, 020, 022, 023, 025, 029, 030, 031, 033, 035, 036, 038	12	01	S1917001, 005, 006, 007, 009, 010, 011, 012, 013, 014, 015, 016	12
11-02-2022	03	S1917 040, 043, 044, 046, 047, 048, 049, 051, 053, 054, 056, 058	12	04	S1917059, 060, 062, 066, 067, 068, 070, 072, 073, 074, 079, 080	12	04	S1917059, 060, 062, 066, 067, 068, 070, 072, 073, 074, 079, 080	12	03	S1917 040, 043, 044, 046, 047, 048, 049, 051, 053, 054, 056, 058	12
12-02-2022	09	S1917183, 186, 188, 189, 191, 194, 196, 202, 203, 204, 205, 206	12	10	S1917208, 209, 213, 215, 216, 217, 224, 227, 229, 230, 231, 233	12	10	S1917208, 209, 213, 215, 216, 217, 224, 227, 229, 230, 231, 233	12	09	S1917183, 186, 188, 189, 191, 194, 196, 202, 203, 204, 205, 206	12
13-02-2022	07	S1917127, 129, 131, 132, 136, 137, 143, 144, 145, 153, 155, 158	12	08	S1917160, 162, 163, 165, 168, 172, 173, 175, 177, 178, 180, 181	12	08	S1917160, 162, 163, 165, 168, 172, 173, 175, 177, 178, 180, 181	12	07	S1917127, 129, 131, 132, 136, 137, 143, 144, 145, 153, 155, 158	12
14-02-2022	05	S1917088, 089, 093, 094, 096, 097, 100, 101, 102, 104, 105, 106	12	06	S1917107, 108, 109, 110, 111, 113, 115, 117, 119, 120, 122, 126	12	06	S1917107, 108, 109, 110, 111, 113, 115, 117, 119, 120, 122, 126	12	05	S1917088, 089, 093, 094, 096, 097, 100, 101, 102, 104, 105, 106	12
15-02-2022	11	S1917234, 235, 236, 238, 239, 240, 245, 246, 248, 249	10	--	--	--	--	--	--	11	S1917234, 235, 236, 238, 239, 240, 245, 246, 248, 249	10
16-02-2022	17	S1917002, 069, 075, 084, 090, 103, 114, 149, 167, 174, 176, 184	12	18	S1917185, 193, 221, 222	04	18	S1917185, 193, 221, 222	04	17	S1917002, 069, 075, 084, 090, 103, 114, 149, 167, 174, 176, 184	12

(Signature)
 Dr. U. M. Shagoti
 Coordinator, Degree Practical Exam.
 February - 2022



(Signature)
 Principal
 J.S.S Arts, Science & Commerce
 College, Gokak



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Dist : Belgaum State : Karnataka

ಜಿ.ಎಸ್.ಎಸ್. ಪದವಿ ಕಲಾ, ವಿಜ್ಞಾನ, ವಾಣಿಜ್ಯ ಹಾಗೂ
ನ್ಯಾತಕೋತ್ತರ ಮಹಾವಿದ್ಯಾಲಯ, ಗೋಕಾಕ.

B.A _____ Semester B.Com _____ Semester
 B.Sc _____ Semester B.B.A _____ Semester

Academic Year 20²² - 20²³

HOME ASSIGNMENTS / SEMINARS

Subject Chemistry

No. & Name of the Paper -I

Name of the Student Aishwarya. B. Kolavi

Class B.Sc (CBZ) Division _____

Roll No. 85

R.C.U. Belagavi Examination No. 52019002



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NAAC RE-ACCREDITATION
 'A' GRADE

V Semester Academic Year : 2023 -2024

Sl. No.	Date	Name of Topic	Signature of the Teacher
1.	30/12/22	classification of nanomaterials	
2.	05/12/22	method for preparation of gels & NPs.	
3.	05/12/22	molecular orbital picture of pyridine.	
4.	26/12/22	synthesis of pyrazole & furazan.	
5.	10/12/22	expression for moment of inertia.	
6.	4/1/22	co-precipitation & post-precipitation.	
7.	26/12/22	steps involved in gravimetric analysis.	
8.	04/12/22	principles of green-chemistry.	
9.	10/2/23	Hantzsch synthesis of pyridine.	
10.	13/2/23	expression for vib ⁿ energy level for SO_2	
11.	10/2/23	chlorination & nitration of pyrazole.	
12.	13/2/23	Normal modes of vib ⁿ for CO_2 & H_2O	

07/2/23

Certificate

Date 16/2/23

This is certify that Mr/Miss Aishwarya. B. Kolavi
 of B.Sc V semester Class has submitted the
 home Assignments/Seminar Paper and his / her performance is satisfactory.

Marks Awarded 03/03

Valued

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SEMINAR SCRIPT SAMPLE COPY

G-E-SOCIETYs.

**J.S.S Arts, Science
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**Department of
Mathematics**

Seminar Report on

Ordinary Differential eq^s
[Reducible to exact form]

2022-23

Submitted By
Mallappa. Byagi
U16EN2160012
B.Sc in Mathematics
DSC

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SEMINAR SCRIPT SAMPLE COPY

* The condition for the equation $Mdx + Ndy = 0$ is exact

$$\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$$

* The solution for the differential equation $Mdx + Ndy = 0$.

$$\Rightarrow \int Mdx + \int Ndy = 0$$

y constant

$$\int Mdx + \int [N \text{ term not containing } x] dy.$$

y constant

⇒ Reducible to Exact Differential equation -
The equation $Mdx + Ndy = 0$ is not exact form we can change / reduce it to exact form by multiplying integrating factor $f(x, y)$.

Steps to solve

i) find $\frac{\partial M}{\partial y} \neq \frac{\partial N}{\partial x}$

ii) Multiply integrating factor

iii) solve the equation.

① If the given $Mdx + Ndy = 0$ is homogeneous eqⁿ then its integrating factor is

$$= \frac{1}{Mdx + dy}$$


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⇒ Ordinary differential equations
 ✗ Reducible to exact forms —

* Ordinary differential equations —

An equation is said to be ordinary differential equation if the differential equation which involves derivatives with respect to a single independent variable is known as ODE.

Ex $\Rightarrow \frac{dy}{dx} + y = 0$ $\Rightarrow v + n \frac{dv}{dx} = v^2$

* Partial differential equations —

A differential equation which contains two or more independent variables and partial derivatives with respect to them, is called partial differential equation.

Ex $\Rightarrow \frac{\partial^2 y}{\partial t^2} + \frac{\partial y}{\partial t} = a^2 \frac{\partial^2 y}{\partial x^2}$ $\Rightarrow x \frac{\partial y}{\partial x} + y \frac{\partial y}{\partial y} = 2u.$

* Exact differential equation —

An equation of the form $Mdx + Ndy = 0$ is said to be exact if $Mdx + Ndy$ is the exact function of x and y

ie $Mdx + Ndy = du$ when u is function of x & y



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SAMPLE COPY OF PROJECT WORK



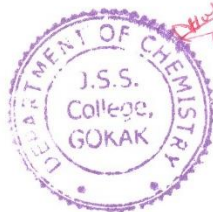
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 Department of Chemistry



CERTIFICATE

This is to certify that the project work entitled "Preparation of Soaps and Detergents" is carried by Mr./Miss Aishwarya B Palil, University Register Number 51917004 of B.Sc. VI Semester has completed and submitted the report on 08/9/22, as prescribed by Rani Channamma University, Belagavi during the year 2021-2022.

[Signature]
 Staff Incharge



[Signature]
 Head of the Department
 CHEMISTRY
 J.S.S. College, Gokak

[Signature]
 IQAC Co-ordinator
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SAMPLE COPY OF PROJECT WORK

ACKNOWLEDGEMENTS

It's indeed a great pleasure for me to express deep sense of gratitude to *Dr. Rajeshwari H. V.*, Assistant Professor, Department of Chemistry, J. S. S. Arts, Science and Commerce College, Gokak, for giving hands-on training in preparing soaps and detergents and fruitful discussions throughout my project work.

I thank sincerely to *Dr. Smt. A. S. Terdal*, Principal, J. S. S. Arts, Science and Commerce College, Gokak and *Dr. R. S. Baligar*, Head of the Department of Chemistry, J. S. S. Arts, Science and Commerce College, Gokak for providing the required facilities to carry out my project work.

My sincere thanks to all teaching staff of Department of Chemistry, *Dr. R. S. Baligar*, *Dr. P. P. Kattimani*, *Dr. N. L. Teradal*, *Dr. Krishnamurthy M. S.*, *Dr. Viswanath C. C.*, *Dr. Umesha B. Prof. C. B. Koujalagi*, *Smt. Anushree Mudholamath*, for their continuous guidance, encouragement and timely help. I also thank non-teaching staff of the Department of Chemistry for their kind cooperation and support.

Finally, I take this opportunity to thank all those who have helped me directly or indirectly to complete this project work.

Thanking you,

Date: 08/9/22


Yours faithfully

(Mr/Miss/Mrs... *Aishwarya B Patil*)


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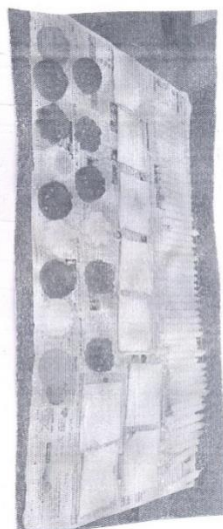
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SAMPLE COPY OF PROJECT WORK

Take one kg of Sodash & Mix with 100ml of acid slury 5g of CMC 5g of SLS & 2g of STPP then add pinch of colouring agent maine ultra violet blue then add perfume mix with half an hour. then It's ready to use.



Discussion:-

In the preparation of Detergents of we used the chemical Sodium lauryl sulphate which is used as forming agent Carboxy Methyl cellulose which is used to prevent the redeposition of dirt Sodium tripolyphosphate which is used for reduced hardness of water.

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SAMPLE COPY OF INTERNAL ASSESSMENT QUESTION PAPER

J.S.S. Arts Science and Commerce College, Gokak

DEPARTMENT OF MATHEMATICS

I – I A Test July-2023

Class: II SEM

SUB: Mathematics-(OEC)

Marks = 30

Section-A

- I) **Answer any five of the following** 2X5=10
- 1) Define Group
 - 2) Define Abelian Group
 - 3) Define Subgroup
 - 4) Define Cyclic Group
 - 5) State Euler's Extension theorem for homogeneous functions

Ravi Shankar

6) If $u = (x^2 + y^2 + z^2)^{-1/2}$ then find $\frac{\partial^2 u}{\partial x^2}$

Section-B

- II) **Answer any five of the following** 4X5=20
- 7) Show that Identity element in a group is unique
 - 8) Show that the inverse of each element of a group is unique
 - 9) State and Prove Euler's Theorem
 - 10) If $u = \log(x^2 + y^2)$ then show that $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = 2$
 - 11) If $u = \sin^{-1} \left(\frac{x^2 + y^2}{x + y} \right)$ then show that $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = \tan u$
 - 12) If $u = xy$ with $x = at^2$ and $y = 2at$ then find $\frac{du}{dt}$

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DEPARTMENT OF MATHEMATICS

I – I A Test July-2023

Class: VI SEM

SUB: Mathematics-I

Marks = 20

- I. **Answer any four of the following questions** 5 X 4=20
- 1) a) Define harmonic function.
 - b) If $f(z) = u + iv$ be an analytic in domain D then u & v satisfies C-R equation then show that $u_x = v_y$ & $u_y = -v_x$
 - 2) a) Prove that analytic function with constant imaginary part is constant
 - b) Show that $\frac{\partial(u,v)}{\partial(x,y)} = |f'(z)|^2$ if $f(z) = u + iv$ is constant
 - 3) Prove that an analytic function with constant modulus is constant
 - 4) If $u(x,y) = x^3 - 3xy^2$ then show that it is harmonic find its harmonic conjugate and corresponding analytic function
 - 5) State and prove Cauchy's integral theorem or Fundamental Cauchy's theorem
 - 6) State and prove Cauchy integral formula for derivatives

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SAMPLE COPY OF INTERNAL ASSESSMENT QUESTION PAPER

J.S.S. ARTS, SCIENCE AND COMMERCE COLLEGE, GOKAK
 II-IA 2022-23

Subject: Chemistry (NEP)
 B.Sc. II Semester (DSC)

Time: 1 hour

Maximum Marks: 30 Marks

I. Answer Any Seven of the following:

2 X 7 = 14

1. Write the structure of ammonia molecule and mention the bond angle.
2. Write the difference between bonding and antibonding molecular orbitals.
3. What is Arrhenius acid and base? Give example for each.
4. What is Bronsted acid and base? Give example for each.
5. Write the difference between crystalline and amorphous solid.
6. What are liquid crystals? Give example.
7. What is unit cell and space lattice?
8. Define law of rational indices.

II. Answer the following questions:

4 X 4 = 16

9. a) Discuss the shape of H₂O molecule on the basis of VSEPR theory.
 OR
 b) Write the salient features of MOT.
10. a) Explain factors affecting pK_a values of organic acids.
 OR
 b) Explain relative acidic strength of the followings; Chloroacetic acid, acetic acid and propanoic acid
11. a) Derive Bragg's equation.
 OR
 b) Explain the types of unit cell and calculate the number of particles per unit cell.
12. a) Explain the law of constancy of symmetry.
 OR
 b) Explain the properties of liquid crystals.

J. S. S. Arts, Science and Commerce College, Gokak

II-IA 2022-23

Subject: Chemistry (DSC)

Time: 1 hour

B. Sc. V Semester (Paper-I)

Maximum Marks: 30 Marks

2x7 = 14 Marks

I. Answer any Seven of the following

1. What are ligands? Give examples.
2. Write the coordination number of central metal ion in i) [Cu(en)₂]SO₄ ii) [CoCl₂(en)₂]Cl
3. What is polydentate ligand? Give an example
4. Write the criteria to exhibit vibrational spectroscopy?
5. Write the selection rule for vibrational spectroscopy.
6. What is zero-point energy?
7. What are polymers? Give examples.
8. What are thermosetting polymers? Give an example.

II. Answer the following

4x4 = 16 Marks

9. (a) Mention the type of hybridization for: (a) Linear (b) Square planar (c) Tetrahedral (d) Octahedral geometry
 OR
 (b) Write the IUPAC names for: a) K₄[Fe(CN)₆] b) [Zn(NH₃)₄]SO₄
 c) [Ni(CN)₄]²⁻ d) [Co(NH₃)₃Cl]₂
10. (a) What are inner orbital complexes and outer orbital complexes. OR
 (b) Derive an expression for the determination of force constant in vibrational spectroscopy.
11. (a) Derive an energy level expression for simple harmonic oscillator and write vibrational energy level diagram. OR
 (b) Sketch and calculate the vibrational degrees of freedom for CO₂ and H₂O molecule.
12. (a) Explain the classification of polymers OR
 (b) Explain the mechanical properties of polymers.

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SAMPLE COPY OF IA MARKS REGISTER

B.Sc Chemistry, III Semester (NEP) - DSC [New] →

IA-1 = 10/17 Seminar = 10/17
 IA-2 = 10/17
 HA = 10/17 } 40 M.

Sl. No	University LUCMS Reg. No.	Name of the Student	Component C-1		Component C-2			Practical Test (20M)	with Record Attendance (5M)	Total marks (25M)	Student Signature	Remarks
			IA-1 (10M)	Seminar (10M)	IA-2 (10M)	HA (10M)	G+C2 (40M)					
1	UJSEN21S0001	PALLAVI K. WALIKAR	06	10	08	10	34	14	05	19	Pallavi	
2	S0002	AMINA R. MIRZABHAI	05	10	06	10	29	16	05	21	Amina	
3	S0003	FAIZAN A. KHAN	04	10	06	10	30	18	05	23		
4	S0004	PREETI B. BIDARI	04	10	07	10	31	20	05	25	Preeti	
5	S0005	BHAVANA S. KURABET	08	10	09	10	37	20	05	25	Bhavani	
6	S0007	KULSUM M. VARAGATTI	06	10	06	10	32	18	05	23	Kulsum	
7	S0011	AKSHATA K. MADIVAL	02	10	04	10	26	12	05	17	Akshata	
8	S0014	KRISHNA S. JOLANNAVAR	04	10	06	10	30	16	05	21	Krishna	
9	S0015	ANAND H. SULLANNAVAR	02	10	06	10	28	15	05	20	Anand	
10	S0016	KAVYA KUMBAR	06	10	06	10	32	16	05	21	Kavya	
11	S0017	SUDEEP B. SANADI	02	10	04	10	26	10	05	15	Sudeep	
12	S0018	MEGHA MASADUMKAR	06	10	07	10	33	16	05	21	Megha	
13	S0021	FATIMA S. AWATI	04	10	05	10	29	14	05	19	Fatima	
14	S0023	NIKHITA C. ANSADI	08	10	07	10	35	17	05	22	Nikhita	
15	S0024	MAHALING. HATTI	08	10	05	10	33	20	05	25	Mahaling	
16	S0025	ASHWINI S. TUPPAD	04	10	06	10	30	09	05	14	Ashwini	
17	S0029	POOJA S. BENACHINAMARADI	07	10	07	10	34	20	05	25	Pooja	
18	S0033	PREETI C. KOUJALAGI	07	10	08	10	35	20	05	25	Preeti	
19	S0034	NIKITA BELAGALI	04	10	05	10	29	16	05	21	Nikita	
20	S0036	BIBISAKINA H. AWATI	08	10	06	10	34	17	05	22	Bibisakina	
21	S0038	PRIYA R. PATIL	10	10	10	10	40	20	05	25	Priya	
22	S0040	RATESHWARI HUSAR	10	10	10	10	40	20	05	25	Rateshwari	
23	S0044	BHOOMIKA CHANNABASAPPAOL	09	10	10	10	39	20	05	25	Bhoomika	
24	S0045	POOJA A. DONI	09	10	08	10	37	20	05	25	Pooja	
25	S0046	LAKKAPPA B. BHUMANNAVAR	04	10	06	10	30	18	05	23	Lakkappa	
26	S0047	DAYANAND B. PUTERI	09	10	08	10	37	20	05	25	Dayanand	
27	S0052	BASAVARAJ B. BHUSANNAVAR										
28	S0053	KADHIKA Y. SHEGUNASHI	07	10	08	10	35	20	05	25	Kadhika	
29	S0061	POORNIMA D. JOGADANDE	04	10	04	10	28	15	05	20	Poornima	
30	S0066	TANAVEEK M. PARAKVASOL	02	10	03	10	25	19	05	24	Tanaveek	

Staff Incharge: (1) Dr. KRISHNA MURTHY M.S. (2) MECH

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