दुरितांचे तिमिर जावो !
Shikshan Prasarak Mandal's
JAWAHAR ART'S, SCIENCE & COMMERCE COLLEGE, ANADUR
Tq. Tuljapur, Dist. Osmanabad - 413 603
NAAC - GRADE - B++ (CGPA 2.81)
President : Shri. B. F. Kasture
Secretary : Shri. S. N. Alure Guruji
Principal : Dr. Umakant Chanshetti (Mob.: 9420488874)
(M.Sc., M.Phil. Ph.D)
Ph.: (02471) 246037, 246737

Ref. : JMA/

Date :

दि. 04.04.2022

सूचना

बी.ए./बी.एस्सी./बी.कॉम.(I,II,III) वर्षातील सर्व विद्यार्थ्यांना सूचित करण्यात येते की, अंतर्गत मूल्यमापन कार्यक्रम (2021-2022) नुसार द्वितीय घटक चाचणी दि.08 व 09 एप्रिल 2022 रोजी घेण्यात येणार आहे.सदर घटक चाचणीचे वेळापत्रक सूचना फलकावर लावण्यात येईल याची सर्वांनी नोंद घ्यावी.

चेअरमन
अंतर्गत मूल्यमापन समिती

प्राचार्य
Principal
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JAWAHAR ART'S, SCIENCE & COMMERCE COLLEGE ANADUR, TAL-TULJAPUR, DIST- OSMANABAD

UNIT TEST-SECOND (2021-22)

Date & Day	Time	Faculty of Arts			Faculty of Science			Faculty of Commerce		
		B.A. I	B.A. II	B.A. III	B.Sc. I	B.Sc. II	B.Sc. III	B.Com. I	B.Com. II	B.Com. III
08/04/2022 Friday	10.00-10.40am	Eng.Com II (18)	S.L. M/H/S (05/06/18)	----------	Eng.Com II (04)	S.L. M/H/S 06/05/07)	--------	-----	S.L. M/H/S (05/06/18)	---------
	10.50-11.30am	S.L. M/H/S II (06/05/04)	Eng.Com (18)	Main M/H/S/E- XV (04) His/Eco/Geo/Pol/ Soc XV-(5/6)	S.L. M/H/S II (06/05/04)	Eng.Com (07)	----------	S.L. M/H/S (06/05/04	--------	----------
	11.40-12.20pm	---------	Opt M/S /H /E VII/VII/IV/IV (6/9/10/11)	Main M/H/S/E- XVI (09) His/Eco/Geo /Pol/Soc XVI- (05)	----------	Che-IX (18)	Phy/Zoo XIX (04)		Cost. Acc (07)	----------
	12.30-1.10pm	Opt M/H/S/E-III (06/05/15/13)	Opt M/S /H /E VIII/VIII/V/V (5/6/7/9)	Opt M/S/H/E XIII/XIII/VI/VI (16)	Che-IV (07)	Che-X (18)	Phy/Zoo XX (04)	B.M.S. (09)	Corp. Acc (10)	BRF (11)
	1.20-2.00pm	Opt M/H/S/E-IV (06/05/15/13)	His/Eco/Geo VII/VIII (9/17/18)	Opt M/S/H/E XIV/XIV/VII/VII (7)	Che V (07)	Phy/Zoo XI (04)	Maths/Bot 601/XIX (12/16)	Fin.Acc (09)		
09/04/2022 Sturday	10.00-10.40am	Eco/Geo-III (06/05)	His/Eco/Geo VIII/IX (09/17/18)	His/Eco/Geo XIII/IXX (14/15)	Phy/Zoo IV (07/04)	Phy/Zoo XII (07/04)	Maths Bot 602/XX (12/16)	B.Ent.D (09)		D Tax (11)
	10.50-11.30am	Eco/Geo IV (06/05)	Pol.Sci/Soci-VII (07/09)	His/Eco/Geo - XIV (06/09/17)	Phy/Zoo V (07/04)	Maths/Bot 401/XI (07/04)	Maths 604 (12)	BOM (09)	Insu (10)	M.Acc (11)
	11.40-12.20pm	Pol.Sci/Soci/ Hist III (05/08/06)	Pol.Sci/Soci-VIII (04/09)	Pol.Sci/Soci -XIII (4/9)	Maths/Bot 201/ IV (4/6)	Maths/Bot 402/XII (9/16)	Che XVI (07)	Eng.Com (18)	GST (10)	A.F.Acc (11)
	12.30-1.10pm	Pol./Soci/ His IV (05/08/06)	-------	Pol.Sci/Soci-XIV (05/08)	Maths/Bot 202/ V (4/6)	Maths 403(09)	Che-XVII (07)	--------	Eng. Com(18)	Advt & SM (11)

Note: - Bracketed figure indicates the Hall Number.

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Internal Evaluation 2021-2022
Department of Mathematics
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Internal Evaluation Cell

Unit Test – II Semester II Year 2021-22

Class : **B. Sc. I** Subject : **Mathematics** Paper No : **MAT-202**

Name of paper : **Geometry** Time : **30 Min.** Marks- **10**

Date : 09/04/2022

Q. 1 Attempt any one : 10

a) Prove that every equation of the first degree in x, y, z represents a plane.

b) Transform the equations $a_1x + b_1y + c_1z + d_1 = 0$, $a_2x + b_2y + c_2z + d_2 = 0$ of the line to the symmetrical form.

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Presenty Report of Unit Test - II
Department of Mathematics 2021-22

Class : **B. Sc.I** Semester: II Name of Teacher : **Shri. S. D. Agalave**

Paper No. : **MAT - 202** Name of Paper : **Geometry**

Sr. No.	Roll. No	P/A	Sr. No.	Roll. No	P/A
1	AA-03	P	31		
2	AA-05	A	32		
3	AA-12	P	33		
4	AA-18	P	34		
5	AA-19	A	35		
6	AA-20	P	36		
7	AA-21	P	37		
8	AA-22	P	38		
9	AA-23	P	39		
10	AA-27	P	40		
11	AA-30	P	41		
12	AA-35	A	42		
13	AA-37	P	43		
14	AA-39	P	44		
15	AA-44	P	45		
16	AA-47	A	46		
17	AA-52	P	47		
18	AA-53	P	48		
19	AA-54	A	49		
20	AA-56	A	50		
21	AA-58	P	51		
22	AA-59	P	52		
23	AA-60	P	53		
24	AA-62	P	54		
25			55		
26			56		
27			57		
28			58		
29			59		
30			60		

Present - 18 Absent - 06 Total - 24

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Tutorial – II Semester II Year 2021-22

Class : **B. Sc. I** Subject : **Mathematics**

Paper No : **MAT-202** Name of paper : **Geometry** Marks- **10**

Q.1 A] Find the symmetrical form of the line $x + y + z + 1 = 0, 4x + y - 2z + 2 = 0$ and find its direction cosines. 05

B] Find the intersection of the line $x - 2y + 4z + 4 = 0, x + y + z - 8 = 0$ with the plane $x - y + 2z + 1 = 0$. 05

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Internal Evaluation 2021-22

Department of Mathematics

Name of Teacher: Shri. Agalave S.D.

Class: B.Sc. I, Semester: II, Name of Paper: Geometry,

Paper No. : MAT-202 Marks Test-10, Tutorial -10, Total-20

Sr. No.	Roll. No	Test	Tutorial	Total	Sr. No.	Roll. No	Test	Tutorial	Total
1	AA-03	08	09	17	26				
2	AA-05	A	A	00	27				
3	AA-12	07	09	16	28				
4	AA-18	08	10	18	29				
5	AA-19	A	09	09	30				
6	AA-20	08	08	16	31				
7	AA-21	08	08	16	32				
8	AA-22	07	09	16	33				
9	AA-23	07	10	17	34				
10	AA-27	08	10	18	35				
11	AA-30	05	09	14	36				
12	AA-35	A	09	09	37				
13	AA-37	05	09	14	38				
14	AA-39	07	08	15	39				
15	AA-44	07	08	15	40				
16	AA-47	A	09	09	41				
17	AA-52	06	09	15	42				
18	AA-53	06	10	16	43				
19	AA-54	A	A	00	44				
20	AA-56	A	A	00	45				
21	AA-58	08	09	17	46				
22	AA-59	07	10	17	47				
23	AA-60	08	09	17	48				
24	AA-62	08	10	18	49				
25					50				

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Unit test – I Semester : IV Year 2021-22

Class : **B. Sc. II** Subject : **Mathematics** Parer No : **MAT- 403** Marks: **10**

Date : 09/04/2022 Name of Paper : **Mechanics-II** Time: **30 Min.**

Q.1 Attempt any one : 10

a) Find radial and transverse components of velocity.

b) Prove that the kinetic energy of particle of mass m moving with velocity $\vec{v}$ is $\frac{1}{2}mv^2$.

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Presenty Report of Unit Test - II
Department of Mathematics 2021-22

Class : **B. Sc.II,** Semester: IV Name of Teacher : **Shri. S. D. Agalave**

Paper No. : **MAT - 403,** Name of Paper : **Mechanics - II**

Sr. No.	Roll. No	P/A	Sr. No.	Roll. No	P/A
1	AB-04	P	31		
2	AB-05	P	32		
3	AB-11	A	33		
4	AB-12	P	34	-	
5	AB-15	P	35		
6	AB-16	P	36		
7	AB-17	P	37		
8	AB-18	P	38		
9	AB-27	P	39		
10	AB-28	P	40		
11	AB-42	P	41		
12	AB-44	P	42		
13	AB-45	P	43		
14	AB-47	A	44		
15	AB-52	P	45		
16			46		
17			47		
18			48		
19			49		
20			50		
21			51		
22			52		
23			53		
24			54		
25			55		
26			56		
27			57		
28			58		
29			59	-	
30			60		

Present - 13 Absent - 02 Total - 15

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Tutorial – II **Semester : IV Year 2021-22**

Class : **B. Sc. II** Subject : **Mathematics**

Parer No : **MAT- 403** Name of Paper : **Mechanics-II** Marks: **10**

Q.1 Attempt any one : 10

a) Find radial and transverse components of acceleration.

b) A particle of mass m moving with velocity $\vec{v}$ picks up a mass M at rest. Find the velocity of the combined mass, the K. E. of the combined mass and the loss in K. E.

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Internal Evaluation 2021-22

Department of Mathematics

Name of Teacher: Shri. Agalave S. D.

Class: B.Sc. II, Semester: IV, Name of Paper: Mechanics - II,
Paper No. : MAT - 403 Marks Test-10, Tutorial -10, Total-20

Sr. No.	Roll. No	Test	Tutorial	Total	Sr. No.	Roll. No	Test	Tutorial	Total
1	AB-04	08	09	17	26				
2	AB-05	07	08	15	27				
3	AB-11	A	09	09	28				
4	AB-12	07	09	16	29				
5	AB-15	06	08	14	30				
6	AB-16	06	08	14	31				
7	AB-17	07	A	07	32				
8	AB-18	08	10	18	33				
9	AB-27	08	09	17	34				
10	AB-28	07	10	17	35				
11	AB-42	08	A	08	36				
12	AB-44	08	09	17	37				
13	AB-45	08	09	17	38				
14	AB-47	A	09	09	39				
15	AB-52	08	09	17	40				
16					41				
17					42				
18					43				
19					44				
20					45				
21					46				
22					47				
23					48				
24					49				
25					50				

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Unit test – II **Semester : VI** **Year 2021-22**

Class : **B. Sc. III** Subject : **Mathematics** Parer No : **MAT- 602** Marks: **10**

Date : 09/04/2022 Name of Paper : **Abstract Algebra-II** Time: **30 Min.**

Q.1 Attempt any one : 10

a) If V is vector space over F if W is a subspace of V, then prove that V/W is a vector space over F, where for $v_1 + W, v_2 + W \in V/W$ and $\alpha \in F$,

(i) $(v_1 + W) + (v_2 + W) = (v_1 + v_2) + W$ (ii) $\alpha(v_1 + W) = \alpha v_1 + W$.

b) If V is the internal direct sum of $U_1, U_2, \ldots, U_n$ then prove that V is isomorphic to the external direct sum of $U_1, U_2, \ldots, U_n$.

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Presenty Report of Unit Test - II
Department of Mathematics 2021-22

Class : **B. Sc.III,** Semester: VI Name of Teacher : **Shri. S. D. Agalave**
Paper No. :MAT-602 Name of Paper : **Abstract Algebra - II**

Sr. No.	Roll. No	P/A	Sr. No.	Roll. No	P/A
1	AC- 08	P	31	AC-83	A
2	AC-18	P	32		
3	AC-19	P	33		
4	AC-20	P	34		
5	AC-21	P	35		
6	AC-22	P	36		
7	AC-24	P	37		
8	AC-26	A	38		
9	AC-31	P	39		
10	AC-32	P	40		
11	AC-33	P	41		
12	AC-36	P	42		
13	AC-40	P	43		
14	AC-42	A	44		
15	AC-44	P	45		
16	AC-45	A	46		
17	AC-48	P	47		
18	AC-49	P	48		
19	AC-57	A	49		
20	AC-58	P	50		
21	AC-60	P	51		
22	AC-62	P	52		
23	AC-63	A	53		
24	AC-66	P	54		
25	AC-67	A	55		
26	AC-69	A	56		
27	AC-73	P	57		
28	AC-75	A	58		
29	AC-76	A	59		
30	AC-77	P	60		

Present - 21 Absent - 10 Total - 31

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Internal Evaluation Cell

Tutorial – II **Semester : VI** **Year 2021-22**

Class : **B. Sc. III** Subject : **Mathematics**

Parer No : **MAT- 602** Name of Paper : **Abstract Algebra-II** Marks: **10**

Q.1 Attempt any one : 10

a) Prove that set of all ordered n-tuples $(\alpha_1, \alpha_2, \ldots\ldots, \alpha_n)$, where the $\alpha_i \in F$ is vector space over field F.

b) If V is vector space over F then prove that

(i) $\alpha\, 0 = 0$ for $\alpha \in F$

(ii) $0\, v = 0$ for $v \in V$

(iii) $(-\alpha)\, v = -(\alpha v)$ for $\alpha \in F$, $v \in V$

(iv) If $\alpha \neq 0$ then $\alpha v = 0$ implies that $v = 0$.

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Internal Evaluation 2021-22

Department of Mathematics

Name of Teacher: Shri. Agalave S. D.

Class: B.Sc. III, Semester: VI, Name of Paper: Abstract Algebra-II

Paper No. : MAT-602 Marks Test-10, Tutorial -10, Total-20

Sr. No.	Roll. No	Test	Tutorial	Total	Sr. No.	Roll. No	Test	Tutorial	Total
1	AC-08	08	09	17	26	AC-69	A	A	00
2	AC-18	07	09	16	27	AC-73	08	09	17
3	AC-19	07	10	17	28	AC-75	A	A	00
4	AC-20	07	10	17	29	AC-76	A	09	09
5	AC-21	08	09	17	30	AC-77	07	09	16
6	AC-22	10	10	20	31	AC-83	A	A	00
7	AC-24	10	09	19	32				
8	AC-26	A	09	09	33				
9	AC-31	08	10	18	34				
10	AC-32	09	10	19	35				
11	AC-33	09	08	17	36				
12	AC-36	08	09	17	37				
13	AC-40	08	09	17	38				
14	AC-42	A	09	09	39				
15	AC-44	07	08	15	40				
16	AC-45	A	A	00	41				
17	AC-48	08	08	16	42				
18	AC-49	08	09	17	43				
19	AC-57	A	A	00	44				
20	AC-58	07	10	17	45				
21	AC-60	10	09	19	46				
22	AC-62	08	09	17	47				
23	AC-63	A	10	10	48				
24	AC-66	08	09	17	49				
25	AC-67	A	A	00	50				

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Unit test – II Semester : VI Year 2021-22

Class : **B. Sc. III** Subject : **Mathematics** Parer No : **MAT- 604**

Name of Paper : **Ordinary Differential Equations-II**

Date : 09/04/2022 Time: **30 Min.** Marks: **10**

Q.1 Attempt any one : 10

a) Let x_0 be in I, and let $\alpha_1, \alpha_2, \ldots, \alpha_n$ be any n constants. Then prove that there is almost one solution $\emptyset$ of $L(y) = 0$ on I satisfying $\emptyset(x_0) = \alpha_1$, $\emptyset'(x_0) = \alpha_2, \ldots\ldots, \emptyset^{(n-1)}(x_0) = \alpha_n$.

b) Let $\emptyset_1, \emptyset_2, \ldots\ldots, \emptyset_n$ be the n solutions of $L(y) = 0$ on I satisfying $\emptyset_i^{(i-1)}(x_0) = 1$, $\emptyset_i^{(j-1)}(x_0) = 0$, $j \neq i$. If $\emptyset$ is any solution of $L(y) = 0$ on I, then prove that there are n constants $c_1, c_2, \ldots\ldots, c_n$ such that $\emptyset = c_1\emptyset_1 + c_2\emptyset_2 + \ldots\ldots + c_n\emptyset_n$.

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Presenty Report of Unit Test - II
Department of Mathematics 2021-22

Class : **B. Sc.III**, Semester: VI Name of Teacher : **Shri. S. D. Agalave**

Paper No. :MAT-604 Name of Paper : **Ordinary Differential Equations - II**

Sr. No.	Roll. No	P/A	Sr. No.	Roll. No	P/A
1	AC- 08	P	31	AC-83	A
2	AC-18	P	32		
3	AC-19	P	33		
4	AC-20	P	34		
5	AC-21	P	35		
6	AC-22	P	36		
7	AC-24	P	37		
8	AC-26	A	38		
9	AC-31	P	39		
10	AC-32	P	40		
11	AC-33	P	41		
12	AC-36	P	42		
13	AC-40	P	43		
14	AC-42	A	44		
15	AC-44	P	45		
16	AC-45	A	46		
17	AC-48	P	47		
18	AC-49	P	48		
19	AC-57	A	49		
20	AC-58	P	50		
21	AC-60	P	51		
22	AC-62	P	52		
23	AC-63	A	53		
24	AC-66	P	54		
25	AC-67	A	55		
26	AC-69	A	56		
27	AC-73	P	57		
28	AC-75	A	58		
29	AC-76	A	59		
30	AC-77	P	60		

Present - 21 Absent - 10 Total - 31

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Tutorial – II Semester : VI **Year 2021-22**

Class : **B. Sc. III** Subject : **Mathematics** Parer No : **MAT- 604**

Name of Paper : **Ordinary Differential Equations-II** Marks: **10**

Q.1 Let $b_1, b_2, \ldots, b_n$ be non-negative constants such that for all x in I $|a_j(x)| \leq b_j$, (j = 1, 2, …. , n) and define k by $k = 1 + b_1 + \ldots + b_n$.

If x_0 is a point in I and $\emptyset$ is a solution of L(y) = 0 on I, then prove that $\|\emptyset(x_0)\| e^{-k|x-x_0|} \leq \|\emptyset(x)\| \leq \|\emptyset(x_0)\| e^{k|x-x_0|}$ for all x in I. 10

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Anadur, Tq. Tuljapur, Dist- Osmanabad -413603

INTERNAL QUALITY ASSURANCE CELL

Internal Evaluation 2021-22

Department of Mathematics

Name of Teacher: Shri. Agalave S. D.

Class: B.Sc. III, Semester: VI, Name of Paper: Ordinary Diff. Equations - II

Paper No. : MAT-604 Marks Test-10, Tutorial -10, Total-20

Sr. No.	Roll. No	Test	Tutorial	Total	Sr. No.	Roll. No	Test	Tutorial	Total
1	AC-08	07	09	16	26	AC-69	A	A	00
2	AC-18	07	09	16	27	AC-73	08	09	17
3	AC-19	06	10	16	28	AC-75	A	A	00
4	AC-20	05	10	15	29	AC-76	A	09	09
5	AC-21	07	09	16	30	AC-77	07	09	16
6	AC-22	07	09	16	31	AC-83	A	A	00
7	AC-24	07	08	15	32				
8	AC-26	A	09	09	33				
9	AC-31	06	10	16	34				
10	AC-32	06	09	15	35				
11	AC-33	07	10	17	36				
12	AC-36	07	10	17	37				
13	AC-40	07	09	16	38				
14	AC-42	A	09	09	39				
15	AC-44	08	09	17	40				
16	AC-45	A	A	00	41				
17	AC-48	07	10	17	42				
18	AC-49	07	10	17	43				
19	AC-57	A	A	00	44				
20	AC-58	08	09	17	45				
21	AC-60	07	09	16	46				
22	AC-62	07	08	15	47				
23	AC-63	A	09	09	48				
24	AC-66	08	09	17	49				
25	AC-67	A	A	00	50				

PRINCIPAL
Jawahar Arts, Science & Commerce College, Anadur,
Tal. Tuljapur, Dist. Osmanabad.

Shikshan Prasarak Mandal, Anadur's
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Anadur, Tq. Tuljapur, Dist- Osmanabad -413603
INTERNAL QUALITY ASSURANCE CELL

Internal Evaluation 2021-2022
Department of Mathematics

Outcome Report of Unit Test/ Tutorial
Sem. II, IV & VI

The Department of **Mathematics** has conducted internal evaluation exam in the academic year **2021-2022**. The Unit Test of B. Sc. I, II, & III year student's based on the syllabus of Sem. **II, IV & VI**

Conclusion:

1. Awareness regarding preparation of University exam created among student.
2. It supported to develop answer writing skill of the student.
3. Student received the direction of study in the view of University exam.
4. Students got awareness the importance of time and exam.

Assist. Prof.

HOD

Principal

Principal
Jawahar Arts, Science & Commerce College
Anadur, Tal. Tuljapur, Dist. Osmanabad