



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


Principal

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

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 VIII/VII/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 (5/6/7/9)	Opt M/S/H/E XIII/XIII/VI/VI (16)	Che-IV (07)	Che-X (18)	Phy/Zoo XX (04)	Corp. Acc (10)	B.M.S. (09)	BRF (11)
	1.20-2.00pm	Opt M/H/S/E-IV (06/05/15/13)	His/Eco/Geo VIII/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)	-----	-----
	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)
09/04/2022 Saturday	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)	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)	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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Tq- Tuljapur, Dist: Osmanabad

Internal Evaluation Cell

Unit Test - II

Year- 2021-22

SEMESTER: II

Class: B.Sc. I
Date: 09 /04/ 2022

Subject: Mathematics
Name of the Paper: Integral Calculus

Paper No.: MAT-201
Marks: 10

Note :- i) Figure to the right indicates full marks.

Q. 1 Evaluate:

05

$$\int \frac{(x+1)dx}{(x-1)^2(x+2)}$$

Q. 2 Prove that the necessary and sufficient condition for a continuous vector point function to be irrotational in a simply connected region is that it is the gradient of a scalar point function.

05


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INTERNAL QUALITY ASSURANCE CELL

Internal Evaluation 2021-22
Department of Mathematics

Presenty Report of Unit Test - II

Class: B.Sc. I
Date: 09/04/2022

Semester: II
Name of the Paper: Integral Calculus

Paper No.: MAT-201
Marks: 10

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

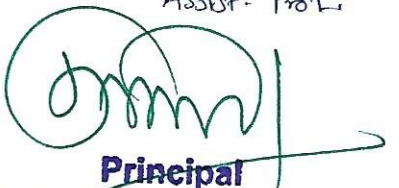
Number of student presents
- 20

Number of student absent-
- 06

Total students-
- 26


Sign

(Madhuri M. Galsing)
Assist. Prof.


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INTERNAL QUALITY ASSURANCE CELL

Year 2021-22

Internal Evaluation 2021-2022

Date- 09/04/2022

Department of Mathematics

Present-Absent Report of Test/ ~~Exam~~ II

Class: B.Sc-I

Semester: II, Time:

Name of Paper: Integral Calculus

Paper No. : _____, Marks:

MAT-201

Name of Invigilator: Madhus N. Gadising

Roll number of present Students	Roll number of absent Students	Total
AA - 03, 12, 18, 19, 20, 21, 22, 23, 27, 30, 35, 39, 44, 47, 52, 53, 58, 59, 60, 62	AA - 05, 37, 54, 56	24
Total present Students = 20	Total absent Students = 04	

Signature of Invigilator

Coordinator of Internal Evaluation Cell
Jawahar Arts, Science & Commerce College,
Tuljapur, Dist- Osmanabad.

Coordinator of Internal Evaluation Cell
Jawahar Arts, Science & Commerce College,
Tuljapur, Dist- Osmanabad.

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Signature of Principal
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Internal Evaluation Cell

Tutorial - I

Year- 2021-22

SEMESTER: II

Class: B.Sc. I

Subject: Mathematics

Paper No.: MAT-201

Date:

Name of the Paper: Integral Calculus

Marks: 20

Note :- i) Figure to the right indicates full marks.

Q. 1 Evaluate:

10

$$\int \frac{(x+1)dx}{(x-1)^2(x+2)}$$

Q. 2 Find the area bounded by an ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ 10

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INTERNAL QUALITY ASSURANCE CELL



Internal Evaluation 2021-22

Department of Mathematics

Name of Teacher: M. N. Gadling

Class: B.Sc. I, Semester: II, Name of Paper: Integral Calculus,
Paper No. : MAI-201 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	10	18	26				
2	AA-05	AB	AD	∞	27				
3	AA-12	06	10	16	28				
4	AA-18	07	10	17	29				
5	AA-19	08	10	18	30				
6	AA-20	09	10	19	31				
7	AA-21	08	10	18	32				
8	AA-22	08	09	17	33				
9	AA-23	10	10	20	34				
10	AA-27	09	10	19	35				
11	AA-30	09	10	19	36				
12	AA-35	07	10	17	37				
13	AA-37	AB	10	10	38				
14	AA-39	07	10	17	39				
15	AA-44	08	09	17	40				
16	AA-47	09	10	19	41				
17	AA-52	08	10	18	42				
18	AA-53	08	10	18	43				
19	AA-54	AB	AB	∞	44				
20	AA-56	AB	AB	∞	45				
21	AA-58	08	10	18	46				
22	AA-59	08	10	18	47				
23	AA-60	09	10	19	48				
24	AA-62	10	10	20	49				
25					50				

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Internal Evaluation Cell

Unit Test - II

Year- 2021-22

SEMESTER: IV

Class: B.Sc. II

Subject: Mathematics

Paper No.: MAT-401

Date: 09 /04 / 2022

Name of the Paper: Numerical Methods

Marks: 10

Note :- i) Figure to the right indicates full marks.

Q. 1. Find a real root of the equation $f[x] = x^3 - x - 1 = 0$. 05

Q. 2. The following table below gives the temperature (0_c) and length l in mm of a heated rod. If $l = a_0 + a_1T$. Find the best value of a_0 and a_1 ?

T(in 0_c)	20	30	40	50	60
l(in mm)	800.3	800.4	800.6	800.7	800.9

05

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INTERNAL QUALITY ASSURANCE CELL

Internal Evaluation 2021-22
Department of Mathematics

Presenty Report of Unit Test - II

Class: B.Sc. II
Date: 09/04/ 2022

Semester: IV
Name of the Paper: Numerical Methods

Paper No.: MAT-401
Marks: 10

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

Number of student presents




- 13

Number of student absent-

- 02

Total students-

- 15


Sign


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INTERNAL QUALITY ASSURANCE CELL

Year - 2021-22

Internal Evaluation 2021-2022

Date-

Department of Mathematics

Present-Absent Report of Test/~~Examination~~ **I**

Class: B.Sc- II


Semester: II, Time:

Name of Paper: Numerical Methods


Paper No. : MAT-401, Marks:

Name of Invigilator: Madhuri N. Gauding

Roll number of present Students	Roll number of absent Students	Total
AB - 04, 05, 11, 15, 16, 17, 18, 27, 28, 44, 45, 47, 52	AB - 12, 42	15
Total present Students = 13	Total absent Students = 02	


Signature of Invigilator


Co-ordinator
Coordinator of Internal Evaluation Cell
Internal Evaluation Cell
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Internal Evaluation Cell

Tutorial - I

Year- 2021-22

SEMESTER: IV

Class: B.Sc. II

Subject: Mathematics

Paper No.: MAT-401

Date:

Name of the Paper: Numerical Methods

Marks: 20

Note :- i) Figure to the right indicates full marks.

Q. 1. Find a real root of the equation $f[x]=x^3-x-1=0$. 10

Q. 2. The following table is given. What is the form of the function?

x	0	1	2	5
y	2	3	12	147

10

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INTERNAL QUALITY ASSURANCE CELL



Internal Evaluation 2021 -22

Department of Mathematics

Name of Teacher: M. N. Gadsing

Class: B.Sc-II, **Semester:** N, **Name of Paper:** Numerical Analysis,
Paper No.: MAT-401 **Marks Test-10, Tutorial -10, Total-20**

Sr. No.	Roll. No	Test	Tutorial	Total	Sr. No.	Roll. No	Test	Tutorial	Total
1	AB-04	09	10	19	26				
2	AB-05	08	10	18	27				
3	AB-11	08	10	18	28				
4	AB-12	AB	10	10	29				
5	AB-15	09	10	19	30				
6	AB-16	08	10	18	31				
7	AB-17	08	09	17	32				
8	AB-18	09	10	19	33				
9	AB-27	10	10	20	34				
10	AB-28	10	08	18	35				
11	AB-42	AB	10	10	36				
12	AB-44	09	09	18	37				
13	AB-45	08	10	18	38				
14	AB-47	07	10	17	39				
15	AB-52	06	10	16	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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Co-Ordinator

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Internal Evaluation Cell

Unit Test - II

Year- 2021-22

SEMESTER: IV

Class: B.Sc. II

Subject: Mathematics

Paper No.: MAT-402

Date: 09 /04/ 2022

Name of the Paper: Partial Differential Equations

Marks: 10

Note :- i) Figure to the right indicates full marks.

Q. 1 Solve $r-t \cos^3 x + p \tan x = 0$ 05

Q. 2 Solve $(D - 1)(D + D' - 1)z = \sin(x + 2y)$ 05

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INTERNAL QUALITY ASSURANCE CELL

Internal Evaluation 2021-22

Department of Mathematics

Presenty Report of Unit Test - II

Class: B.Sc. II
Date: 09/04/ 2022

Semester: IV
Name of the Paper: Partial Differential Equations

Paper No.: MAT-402
Marks: 10

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

Number of student presents
- 12

Number of student absent-
- 03

Total students-
- 15


Sign
(Maehun N. Gooling)



Principal

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Shikshan Prasarak Mandal, Anadur's

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INTERNAL QUALITY ASSURANCE CELL

Year: 2021-22

Internal Evaluation 2021-2022

Date-

Department of Mathematics

Present-Absent Report of Test/~~Exam~~ II

Class: B.Sc-II

Semester: IV, Time:

Name of Paper: Partial Differential Eq

Paper No. : _____, Marks: 10

Name of Invigilator: Madhuri M. Gading

MAT-602

Roll number of present Students	Roll number of absent Students	Total
AB - 04, 05, 12, 15, 16, 17, 18, 27, 28, 44, 45, 52.	AB - 11, 42, 47	15
Total present Students = <u>12</u>	Total absent Students = <u>03</u>	

Signature of Invigilator

Coordinator of Internal evaluation cell,
Internal Evaluation Cell,
Jawahar Arts, Science & Commerce College,
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Internal Evaluation Cell

Tutorial - I

Year- 2021-22

SEMESTER: IV

Class: B.Sc. II

Subject: Mathematics

Paper No.: MAT-402

Date:

Name of the Paper: Partial Differential Equations

Marks: 20

Note :- i) Figure to the right indicates full marks.

Q. 1 Solve $r+5s+6t=0$

10

Q. 2 Solve $(D - 1)(D + D' - 1)z = \sin(x + 2y)$

10

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INTERNAL QUALITY ASSURANCE CELL

Internal Evaluation 2021 -22

Department of Mathematics

Name of Teacher: M.N. Gadising

Class: B.Sc. II, **Semester:** II, **Name of Paper:** Partial Differential Eq?
Paper No. : MAI-402 **Marks Test-10, Tutorial -10, Total-20**

Sr. No.	Roll. No	Test	Tutorial	Total	Sr. No.	Roll. No	Test	Tutorial	Total
1	AB-04	05	10	15	26				
2	AB-05	08	10	18	27				
3	AB-11	AB	09	09	28				
4	AB-12	09	10	19	29				
5	AB-15	06	10	16	30				
6	AB-16	07	10	17	31				
7	AB-17	08	10	18	32				
8	AB-18	08	10	18	33				
9	AB-27	08	10	18	34				
10	AB-28	07	09	16	35				
11	AB-42	AB	10	10	36				
12	AB-44	09	10	19	37				
13	AB-45	09	10	19	38				
14	AB-47	AB	09	09	39				
15	AB-52	08	10	18	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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Co-Ordinator
Internal Evaluation Cell
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Shikshan Prasarak Mandal's
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Tq- Tuljapur, Dist: Osmanabad

Internal Evaluation Cell

Unit Test - II

Year- 2021-22

SEMESTER: VI

Class: B.Sc. III

Subject: Mathematics

Paper No.: MAT-601

Date: 08 /04 / 2022

Name of the Paper: Real Analysis-II

Marks: 10

Note :- i) Figure to the right indicates full marks.

Q. 1. Prove that $\frac{2\pi^2}{9} \leq \int_{\pi/6}^{\pi/2} \frac{2x}{\sin x} dx \leq \frac{4\pi^2}{9}$.

05

Q. 2. Define connected set, compact set and complete set. Prove that the metric space $\langle M_1, \rho_1 \rangle$ is compact if and only if every sequence of points in M has a subsequence converging to a point in M.

05

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INTERNAL QUALITY ASSURANCE CELL

Internal Evaluation 2021-22

Department of Mathematics

Presenty Report of Unit Test - II

Class: B.Sc. III
Date: 08 /04 / 2022

Semester: VI
Name of the Paper: Real Analysis-II

Paper No.: MAT-601
Marks: 10

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

Number of student presents

- 22


Number of student absent-

- 09

Total students-

- 31


Sign
(M. Mathur N. Gadhing)


Principal

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



Shikshan Prasarak Mandal, Anadur's

Jawahar Arts, Science & Commerce College,
Anadur, Tq. Tuljapur, Dist- Osmanabad -413603

INTERNAL QUALITY ASSURANCE CELL

Year: 2021-22

Internal Evaluation 2021-2022

Date-

Department of Mathematics

Present-Absent Report of Test/~~Tutorial~~ **II**

Class: B.Sc-III

Semester: VI, Time:

Name of Paper: Real Analysis-II

Paper No. : _____, Marks: 10


Name of Invigilator: Madhuri N. Gadsing

MAT-601

Roll number of present Students	Roll number of absent Students	Total
AC- 18, 19, 20, 21, 24, 26, 31, 32, 36, 40, 42, 44, 45, 48, 49, 58, 60, 62, 63, 66, 73, 76, 77	AC- 08, 22, 33, 45, 57, 67, 69, 75, 83	31
Total present Students = <u>22</u>	Total absent Students = <u>09</u>	


Signature of Invigilator


Co-Ordinator
Internal Evaluation Cell
Coordinator of Internal evaluation cell,
Jawahar Arts, Science & Commerce College,
Anadur, Tq.- Tuljapur, Dist- Osmanabad.


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



Shikshan Prasarak Mandal's
Jawahar Arts, Science & Commerce College, Anadur
Tq- Tuljapur, Dist: Osmanabad

Internal Evaluation Cell

Tutorial - I

Year- 2021-22

SEMESTER: VI

Class: B.Sc. III

Subject: Mathematics

Paper No.: MAT-601

Date:

Name of the Paper: Real Analysis-II

Marks: 20

Note :- i) Figure to the right indicates full marks.

Q. 1. Let f be a continuous function from a metric space M_1 into a metric space M_2 . If M_1 is connected, then prove that the range of f is also connected.

10

Q. 2. Define connected set, compact set and complete set. Prove that the metric space $\langle M_1, \rho_1 \rangle$ is compact if and only if every sequence of points in M has a subsequence converging to a point in M .

10

Principal

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Anadur, Tal. Tuljapur, Dist. Osmanabad



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Jawahar Arts, Science & Commerce College,
Anadur, Tq. Tuljapur, Dist- Osmanabad -413603
INTERNAL QUALITY ASSURANCE CELL



Internal Evaluation 2021 -22

Department of Mathematics

Name of Teacher: M. N. Gaudsing

**Class: B.Sc. III, Semester: VI, Name of Paper: Real Analysis - II,
 Paper No. : MAT-601 Marks Test-10, Tutorial -10, Total-20**

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

(Signature)

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

(Signature)
Co-Ordinator
Internal Evaluation Cell
Jawahar Arts, Science & Commerce College

(Signature)