Director,

**Board of Examinations & Evaluation** Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

principal@shahucollegelatur.org.in. Mob. Principal, 9403245650



संचालक,

परीक्षाआणिमूल्यमापनमंडळ राजर्षीशाहमहाविद्यालय, लातूर

(स्वायत्त)

coersml@gmail.com, drovish2009@gmail.com Mob. COE, 9890010453

Office: 02382-245933, 245380, Fax: 02382-253645

Ref.: RSML/Aut./Exam.PS (U.G. & P.G.)/2019/8863

Date: 11.10.2019

To,

1) Dr. A.A. Yadav

Chairman / Paper Setter

Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

2)

Paper Setter (Internal)

Dr Ram Kadam

Paper Setter (External)

Shrikrishna Mahavidyalaya, Gunjoti, Tq. Omerga, Dist. Osmanabad

Sir / Madam,

The Board of Examinations is pleased to appoint you as Chairman / Member of the Board of Paper Setting for the

Class

: M.Sc. I

Subject

: Physics

Course Title: Quantum Mechanics-III

Course Code: P-QUM-121 Semester : I Semester

The meeting of paper setting is fixed on 14.10.2019 at 10.00 a.m. at Examination Section of Rajarshi Shahu (Autonomous) Mahavidyalaya, Latur. Please make it convenient to attend the meeting.

Thanking you,

Yours faithfully,

Coontholler of Examinations Rajarshi Shanu Mahavidyalaya

#### Instructions:

1) Paper setters are expected to come for paper setting with complete preparation.

2) Syllabus of this subject and concerned course/s is available on the website (5) of our college.

3) Paper setting should be as per the given format.

- 4) It is compulsory for paper setters to give 03 (three) paper sets along with answer key of MCQ papers and model answer sets wherever necessary.
- 5) TA / DA, Local conveyance and remuneration will be paid as per rules after the submission of paper sets.
- 6) If any near blood relative of the Chairman / Member is examinee for concerned subject, then this appointment will be treated as cancelled. Concerns are requested to communicate accordingly.

Director,

**Board of Examinations & Evaluation** Rajarshi Shahu Mahavidyalaya, Latur

(Autonomous)

principal@shahucollegelatur.org.in,

Mob. Principal, 9403245650



संचालक,

परीक्षाआणिमुल्यमापनमंडळ राजणीशाहमहाविद्यालय, बातूर

(स्वायत्त)

coersml@gmail.com, drovish2009@gmail.com

Mob. COE, 9890010453

Office: 02382-245933, 245380, Fax: 02382-253645

Ref.: RSML/Aut./Exam.PS (U.G. & P.G.)/2019/ 9843

Date: 11.10.2019

Chairman / Paper Setter

Paper Setter (Internal)

Paper Setter (External)

To,

1) Dr. E.U. Masumdar

Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

2) Prof. S.S. Undalkar

Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

Dr Ram Kadam Shrikrishna Mahavidyalaya, Gunjoti, Tq. Omerga, Dist. Osmanabad

Sir / Madam,

The Board of Examinations is pleased to appoint you as Chairman / Member of the Board of Paper Setting for the

Class

: B.Sc. III

Subject

: Physics

Course Title : Solid State Physics- XA

Course Code: U-Phy-552

: V Semester Semester

The meeting of paper setting is fixed on 14.10.2019 at 10.00 a.m. at Examination Section of Rajarshi Shahu (Autonomous) Mahavidyalaya, Latur. Please make it convenient to attend the meeting.

Thanking you,

ours faithfully,

Commune b Examinations Rajarshi Shahu Mahavidyalaya

#### Instructions:

1) Paper setters are expected to come for paper setting with complete preparation.

2) Syllabus of this subject and concerned course/s is available on the website (\*) of our college.

3) Paper setting should be as per the given format.

4) It is compulsory for paper setters to give 03 (three) paper sets along with answer key of MCQ papers and model answer sets wherever necessary.

5) TA / DA, Local conveyance and remuneration will be paid as per rules after the submission of paper sets.

6) If any near blood relative of the Chairman / Member is examinee for concerned subject, then this appointment will be treated as cancelled. Concerns are requested to communicate accordingly.

#### Rajarshi Shahu Mahavidyalaya (Autonomous), Chandra Nagar, Latur - 413 512 (M.S.)

principal@shahucollegelatur.org.in Mob. Principal - 9403245650 Office: 02382 - 245380, 245933

Fax: 02382 - 253645

Ref. RSML/Aut. / Exam./PS/20



#### राजर्षी शाहू महाविद्यालय (स्वायत्त), चंद्रनगर, लातूर - ४१३ ५१२ (महा.)

coersml@gmail.com Mob.COE - 9890010453

Website: www.shahucollegelatur.org.in

#### **Relieving Letter**

This is to certify that Shri. / Smt. / Dr. Ram H. Ro	ndam
Paper Setter / Examiner in the subject of physics	has attended the work of Paper
Setting / Assessment of Answer Books Practical Examiner	at Examination Cell at Rajarshi Shahu
Mahavidyalaya (Autonomous), Latur From 14.10.201	9 To
He/She has been relieved on 14.10.2019	from this college before noon/afternoon.

Than OMew

Controller of Examinations
Controller of Examinations
Rajarshi Shahu Mahavidyalay ...
(Autonomous)
LATUR-413 512(M.S.)

शासन निर्णय क्रमांक विभशा/२००६/प्रक्र ५९ / मावक ६ / दि. २६ जून २००८

#### यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ, नाशिक राजर्षी शाहू कला व विज्ञान कनिष्ठ महाविद्यालय जळकोट

ता. तुळजापूर जि. उस्मानाबाद.

सचिव

श्री. चव्हाण एस.एम.

अध्यक्षा श्रीमतीः सी.एम. चव्हाण

जा.क्र. ०३ /२०१९-२०

दि. ०१/०६/२०१९

प्रति,

मा. प्राचार्य श्री कृण्ण महाविद्यालय गुंजोटी गुंजोटी. ता उमरगा जि उस्मानाबाद

विषय:- बहिस्थ पर्यवेक्षकास कार्यमुक्त केले बाबत..

व्दारा :- केंद्र प्रमुख, राजर्षी शाहू कला व विज्ञान किनष्ठ महाविद्यालय जळकोट ता तुळजापूर

महोदय,

उपरोक्त विषयी कळिवण्यात की, यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ, नाशिक अभ्यासक्रेंद्र राजर्षी शाहू कला व विज्ञान किनष्ठ महाविद्यालय जळकोट ता.तुळजापूर जि. उस्मानाबाद या महाविद्यालयातील बी ए व बी कॉम परीक्षेसाठी बहिस्थ पर्यवेक्षक म्हणून श्री.डॉ कदम आर एच यांची नियुक्ती य च म मु वि नाशिक यांनी केली आहे. त्यानुसार दिनांक १६/०५/२०१९ ते ०१/०६/२०१९ या कालावधी साठी ते आमच्या महाविद्यालयात बहिस्थ पर्यवेक्षक म्हणून कार्यरत होते. आज दिनांक ०१/०६/२०१९ रोजी दुपार सत्रानंतर त्यांना कार्यमुक्त करण्यात आले आहे.

माहितीस्तव १ मा विभागीय संचालक औरंगाबाद कंद्र प्रमुख य.च.म.मुक्त विद्यापीठ नाशिक रा.शा.कला व विज्ञान कनिष्ठ महा जळकोट ता.तृळजापूर जि.उ.वा



#### ADITYA ENGINEERING COLLEGE

Telgaon Road, Beed - 431 122 (M.S.)

Email id: - principal.aditya@gmail.com

Phone No.: - 02442 227038

Ref. No. AEC | office | 2018 19 | 615

Date: 04 / 06 /2019

#### **Duty Certificate**

This is to certify that, prof. Dr. Kadam R.H. member of Shrikrushna college umarga Dist.

Osmanabad has attended examination of DR. B.A.M.U., Aurangabad at Aditya Engineering

College, as university appointed seating squad on dated 03 /06 / 2019 and 04 / 06 /2019.

We relieved him from his duties on 04 / 06 /2019.

Childher aperintendent
Aditya Engineering College, Beed

#### Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

CUSTODIAN D-CAS and P.G. CAS



Phone (O): Extn.: Resi.: Mobile Phone No.:

Ref. No. Ex/D CAS - P.G. CAS/20 - 20/9 Date: 15-[11]19

Dr./Prof/Smi DR : R: H. Kadam. Dept. A. Physica, Shriknishna Mahavidyalaya.

Gunjoti, Omenga Bist De Osmanabad.

(M-5c)

Sub.: Assessment of Answer-Books. Physica. Examinations/March April / Oct.-Nov. 2019.

Sir/Madam,

I am directed by the Hon'ble Vice-Chancellor to invite you to assess the Answer Book of ... M - S.C. Examination held in March April/Oct.-Nov. 2019 in the subject of ... phy. s. ics ..........

The assessment work in all the subjects will Commence/has commenced from . 1.5[!] 19. at the D CAS and P. G. CAS Centre.

May I request you to make it convenient to attend the assessment of Answer-Books of your subject on after physis exam 15/11/19: The remuneration/T.A./D.A./Local conveyance will be paid on spot as per the University rules.

I am further directed by the Hon'ble Vice-Chancellor to invite your attention to the following provision of Maharashtra Public Universities Act, 2016 in respect of Examination work. Section 4 of section 48 of

Maharashtra University Act, 2016. Provides as follows:-

"48(4) It shall be obligatory on every teacher and on the non-teaching employee of the University, affiliated, conducted colleges, community colleges or recognized institutions to render necessary assistance and service in respect of examinations of the university and evaluation of students as prescribed by statutes. If any teacher or non-teaching employee fails to comply with the order of the university or college or institution, in this respect, it shall be treated as misconduct and the employee shall be liable for disciplinary action. In case of failure on part of the teacher or nonteaching employee of any affiliated colleges, conducted college, community college or recognized institution, to comply with the order of the university in this respect, the Vice-Chancellor shall have power to take an appropriate action against them, which may include imposing penalties including suspension of approval to the appointment of a teacher, as may be prescribed by the Statutes."

Your co-operation in such a great venture is earnestly solicited. Thanking you.

Marathwada University, Aurangabad Custodian

Copy Forwarded with Compliments to The Principal ...... with a request to relieve the concerned faculty member forthwith and exempt him/her from his/her presence on the last working day.

Dr Babasaheb Ambedkar Marathwada University. Aurangabad:

### Dr. Babasaheb Ambedkar Marathwada University Aurangabad-431 004. Maharashtra (India) NAC Re-accredited A Grade Teespino: (0240) 2403200 Office PBX: (0240) 2403399400 Fax: (0240) 2403399400 Fax: (0240) 2403399189 Web Site: www.bamu ac.in. http://bamua.oigitaluniversity.ac.



#### डॉ. वावासाहेव आंवेडकर मराठवाडा विद्यापीठ

औरंगाबाद-४३१ ००४. महाराष्ट्र (भारत) नॅक समिती तर्फे अ दर्जा प्राप्त

Office of the Controller of Examinations कार्यालय, परीक्षा नियंत्रक

77 7

Ref. No. Ex/D-CAS/PG-CAS/2019 - 2-0

Date 14/12/19 . .

#### · RELIEVING LETTER

This is o certify that Dr. /Mr. / Ma. DR R	·H· Kadam ·
of Sheiksushna Mahamolyalays	a Gunjoli, did the
paper assessment work in the suject Physica	at Dicas Centre
Examination held in Mar. Apr./OctNov. 2019-20 at D-0	CAS Centre & PG-CAS Centre,
10,11,12,13,414 12 19 .	- From 10-12-19
To 14-12-15 and he / she is	relieved from the said assignment
today after-noon.	Alectric Course (IIII), it is not extensive the course of
He/She has not reported the D-CAS/PG-CAS Co	entre on the following dates,
-Nil-	
He/She has checked the total number of papers	and has
given the T.A. / D.A./ Conveyance for	
	(D) hunding
	Daniel (Brother) Ea P.G.)
	Dr 18. P. Classof Amissical
	Dr. Babasahisa Attibadka Marathiyada University, Aurangabad.

Scanned by CamScanner



#### II SA VIDYA YA VIMUKTAYE II NAGAR SHIKSHAN VIKAS MANDAL'S

#### SHRI MADHAVRAQ PATIL MAHAVIDYALAYA

(Art's Science & Commerce)

MURUM, Tq. OMERGA, Dist. OSMANABAD - 413605

Accredited By NAAC "B" Grade

S.T.D.: (02475) Office : 256176

Resi. : 256325

E-Mail: smpc4717@rediffmail.com

smpc47@rediffmail.com

PRINCIPAL: Dr. A. K. Sapate (M.A.; Ph.D.)

Outward No.:SMPC/PrExam/2019-20/ 194

Date: 04/10/2019

To, The Principal Shri Krishna College, Gunjoti, Tq. omerga.

Subject: Regarding Relieving letter.

Sir,

With reference to above cited subject Dr. R. H. Kadam has worked as External Examiner for B.Sc. I Year Physics Practical Examination O/N-2019 of Dr. B. A. M. University, Aurangabad on 04/10/2019 in our college for university Practical Examination.

He has relived on 04/10/2019 after office hours.

Thanking You

Copy to,

Director Examination & Evaluation,

Dr. B.A.M.University, Aurangabad.

PRINCIPAL.

Principal

Shrt. Madhavrao Patil College, Murum Tq. Omerga Dist. Osmanabad



#### Duritanche Timir Jawo!

#### Shikshan Prasarak Mandals

#### JAWAHAR AR'S, SCIENCE AND COMMERNCE COLLEGE ANDUR, TQ. TULJAPUR DIST. OSMANABAD.

President : Shri Bharat Kasture Principal : Dr. Umakant Chanshetti

Secretary : Shri S. N. Alure Gurji 9420488874, 02471-246037,246737

Ref.JMA/201849/09

Date: 03/03/20

To.

1. Dr. Mr./Mrs/ R. H. Kadam External Examiner
2. Dr. Mr./Mrs/ S. S. Jadhov Internal Examiner Jawahar Arts, Science & Commerce College Anadur.

Subject :- Practical Examination of B.A./B.Sc./B.Com./ I/II/III year Sem.

IVIVIOCE/Nov. 20 Mar./Apr. 2020n the Subject of - Physics

Sir/Madam.

As per instruction of the Director of Examination Dr. Babasaheb Ambedkar Marathwada University Aurangabad. I am to communicate here with the details of your assignment as external examiner/Internal Examiner at the practical Examination in Oct./Nov. 20 Mar./Apr. 2020

Examination	Centre	Date of commencement of examination	Last Date of Exam.	Batch no to be Examined
B.Sc./B.Com./B.A. I/II/III, Sem. II/IV/VI	Jawahar A.S.&C.College Andur	12/03/2020	1777	

N.B. Mark of Practical Examination and CD should be sent to the Director of Examination through the Principal of the centre immediately after conclusion of the Practical Examination.

PRINCIPAL

Copy Forward

1. Director of Examination

rwanar Arts, Science & Commer College, Anadui. Tal Tuliapur Dist Osmanabad

DR. BABASAHEB AMBEDKAK MARATHWADA UNIVERSITY, AURANGABAD

2. Principal of the concerned , External Examiner S.m. Gunjoti

3 Head depart Of Physics Jawahar A.S.&C.College, Andur

Government of Maharashtra
Zilha Parishad, Osmanabad
Office of the Education Officer(Sec.)
E-mail rmsa.osbad@gmail.com



महाराष्ट्र शासन जिल्हा परिषद, उस्मानाबाद कार्यालय- शिक्षणाधिकारी शिक्षण विभाग (माध्य.) 413501 ई-मेल rmsa.osbad@gmail.com

जा.क्र.जिपउ/शिक्षण/माध्य/वि.प./ 307/2020

दिनांक - 09/01/2020

प्रति, संचालक/प्राचार्य ऋणिकृष्ठि। विशिष्ट महाविद्यालाय, - सुझोटी ता उमरगा

विषय:- परीक्षक नियुक्ती बाबत...

संदर्भ :- मा.संचालक राज्य विज्ञान व गणित शिक्षण संस्था रविनगर यांचे पत्र क्र.-844 दिनांक 11/10/2019

उपरोक्त विषयी आपणास कळविण्यात येते की, उस्मानाबाद जिल्ह्याचे 45 वे जिल्हास्तरीय विज्ञान प्रदर्शन व अध्यापक साहित्य निर्मिती प्रदर्शन दिनांक 16/01/2020 व 17/01/2020 रोजी जयप्रकाश माध्यमिक व उच्च माध्यमिक विदयालय, रूईभर ता. जि. उस्मानाबाद येथे आयोजीत करण्यात आलेले आहे. सदर प्रदर्शनातील प्रदर्शनीय वस्तूचे मूल्यमापन करण्यासाठी आपल्या विद्यापीठ उपकेंद्र / महाविदयालयातील डॉ . टाइन कर्ट्यन करण्यात आलेली आहे. तरी संबंधितास प्रदर्शनस्थळी वेळेत उपस्थित राहण्यासाठी कार्यमुक्त करून सहकार्य करावे.



Dal 10-1669 Triel 10-12512 डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद.

> (नंक अ दर्जा ) विद्यार्थी विकास

संचालक (का.)

2803132 विद्यार्थी विकास 2803133

फॅवब :

(०२४०) २४०३१३४, २४०३१५०

वामसिटी

Web Site: E-Mail:

www.bamu.net dsw@bamu.ac.in

डॉ. मुस्तजीब अ. खान

संचालक, विद्यार्थी विकास

विद्यापीट परिसर.

औरंगाबाद - ४३१ ००४. (महाराष्ट्र)

दिनांक: १० जानेवारी २०२०

संदर्भ क्र. : संविवि/अविष्कार/२०२०/ 17271-72

प्रति,

१ डॉ. राम कदम सिध्देश्वर महाविद्यालय, गुंजोटी, जि. उस्मानाबाद.

२. डॉ. संदिप देशमुख रामकृष्ण परमहंस महाविद्यालय, उस्मानाबाद.

विषय:- अविष्कार २०१९ महोदय,

उपरोक्त विषयी आपणास कळविण्यात येते की, अविष्कार २०१९ चे आयोजन दि. २० जानेवारी २०२० ते दि. २१ जानेवारी २०२० या दरम्यान डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ परिसरामध्ये करण्यात आला आहे. आपली उस्मानाबाद जिल्हा समन्वयक म्हणुन नियुक्ती केली आहे.

तरी दि. १३ जानेवारी २०२० रोजी दुपारी ३.३०. वाजता विद्यार्थी विकास येथे बैठकीचे आयोजन करण्यात आले आहे. बैठकीस उपस्थित राहुन सहकार्य करावे, ही विनंती.

आपला विश्वांस्

विद्यार्थी विकास

#### डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीट, औरंगाबाद.

(नेंक अ दर्जा )

#### विद्यार्थी विकास

संचालक (का.)

2803333

मोबाईल क्र. विद्यार्थी विकास 555555555

फॅक्स:

5803533

तार:

(0280) 2803338, 2803340 बामसिटी

Web Site:

E-Mail:

www.bamu.net

dsw@bamu.ac.in संदर्भ क्र. : संविवि /२०२०/ 12309-12740

डॉ. मुस्तजीब अ. खान

संचालक, विद्यार्थी विकास विद्यापीठ परिसर.

औरंगाबाद - ४३१ ००४. (महाराष्ट्र)

दिनांक: १३ डिसेंबर २०२०

प्रति.

मा. संचालक,

डॉ. बाबासाहेब आंबेडकर मराठवाडा

विद्यापीठ उपकेंद्र,

उस्मानाबाद.

मा. प्राचार्य,

सर्व संलग्नीत महाविद्यालये

डॉ. बाबासाहेब आंबेडकर

मराठवाडा विद्यापीट, औरंगाबाद

विषय : आविष्कार स्पर्धेसाठी आपल्या जिल्हयाच्या समन्वयकांना येण्याचा वेळ ' कळवणे बाबत...

महोदय/महोदया,

उपरोक्त विषयी आपणास कळविण्यात येते की, अविष्कार २०१९ चे आयोजन दि. २० जानेवारी २०२० ते दि. २१ जानेवारी २०२० या दरम्यान डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीट परिसरामध्ये करण्यात आला आहे.

तरी आपल्या जिल्हा समन्वयकाशी संपर्क शाधुन विद्यापीटामध्ये आपल्या महाविद्यालयाचा संघ घेऊन किती तारखेला येणार आहात बद्दलची माहिती आपल्या जिल्हा समन्वयका दयावी हि विनंती

अं. क्र	समन्वयकाचे नाव	मोबाईल नंबर	ई-मेल आयडी	जिल्हा
8	डॉ. विष्णु पाटील देवगिरी महाविद्यालय, औरंगाबाद.	९४५९६०२९०२	vishnuwpatil@gmail.com	औरंगाबाद
3	डॉ. अभिनव माने छत्रपती शाहु अभियांत्रीकी, महाविद्यालय, कांचनवाड़ी, औरंगाबाद.	€8505 € 3 A 80	abhinavmane@gmail.com	औरंगाबाद
th)	डॉ. प्रशांत एम. अंबड महाराष्ट्र इन्स्टिटयुट ऑफ टेक्नॉलॉजी, औरंगाबाद.	9877600076	pmambad@gmail.com	औरंगाबाद
8	डॉ. लक्ष्मीकांत शिंदे जे. ई. एस. महाविद्यालय, जालना	९४२२१३३२२	kantshinde@gmail.com	जालना
4	डॉ. तुषार घोंडगे स्वामी विवेकानंद महाविद्यलालय मंठा, जि. जालना	९९६०५८२०९८		जालना
4	डॉ. शफि सय्यद मिल्लीया महाविद्यालय, बीड	९३२५७१०२३५	syedsh@gmail.com	बीड

Ę	डॉ. राम कदम सिध्देश्वर महाविद्यालय, गुंजोटी, जि.	6855840845	Rameshwarkadama@gmail.com	उस्मानाबाद
15	उस्मानाबाद. डॉ. संदिप देशमुख रामकृष्ण परमहंस महाविद्यालय, उस्मानाबाद.	९४०४६७६५९०	Sandipdeshmukhaass@gmail.com	उस्मानाबाद

आपला विश्वासू,

विद्यार्थी विकास

#### DR.BABASAHEBAMBEDKAR MARATHWADA UNIVERSITY,

AURANGABAD -431 004 Maharashtra (India) NAAC – Accredited "A"

Tele. :

Office PBX: (0240) 2403399/400
B.Sc. :- (0240) 2403181
FAX: (0240) 2403199/188
TELEGRAM : BAMUSITY
WEB SITE :www.bamu.net

:http://bamua.digitaluniversity.ac.



#### डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ,

औरंगाबाद-४३१ ००४ महाराष्ट्र (भारत) नॅक समितीतर्फे "अ" दर्जा प्राप्त

Date: 21/05/2019

Ref. No.: Exam/B.Sc./P.S./2019/

#### RELIEVING LETTER

This is to certify that Shri./Smt./Dr Dr. Ugale B. J. College Shrikrishna Mahavidyalaya, GUNJOTI, Osmanabad has attended the university office from /.q.../.q./2019 to 24./.q./2019 in connection with the examination B.Sc. Paper Setting work and he/she is relieved on 24./.o.q./2019.

Section Officer
Examination Section
Dr. Babasaheb Ambedkar
Marathwada University
Aurungabad



#### Punyashlok Ahilyadevi Holkar, Solapur University, Solapur.

**Examinations and Evaluation Section** 

Solapur-Pune National Highway, Kegaon, Solapur-४१३ २५५

EPABX No.0784- 2088/460/68/63/66/08/08/08/08/08/08

Fax No.0789-7988990

Web Site: http://su.digitaluniversity.ac/www.sus.ac.in

email id: coe@sus.ac.in

#### ATTENDANCE CERTIFICATE

This is to certify that Shri / Smt. Do. Ugale Bhausahe6
Janar dhan of
5.K.m. Grunjoti has attended the Paper Setting
Meeting / Assessment / 48(3) (a) Meeting in the Subject of
Zoology at M.Sc.I sem.I
Examination in the University Office.
Solapur On _27/09/2019 (ome 2a)
Ref. No. SUS/Exam./
Date: 27/09 (2019
Board of Examinations And Systemation  Physical book Anily Ryardevi Holkar  Physical book Anily Ryardevi Holkar  Subaptin University, Solapur.  Subaptin University, Solapur.



#### पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर Punyashlok Ahilyadevi Holkar Solapur University, Solapur

(पूर्वीचे सोलापूर विद्यापीठ, सोलापूर)

Ref. No. PAHSUS/EXAM/2019/

Date: 11 12/2010)

#### ATTENDANCE CERTIFICATE

This is to certify that Shri/Smt. Ugale Bhausaheb Janardhan
of Shrikrishna Mahavid Jalaya Glunjohi has attended the assessment in the subject of
Zoology at M.5c Examinations section at the university office (CAP Center
University Camp.) Solapur from dt. 11/1/2019 to He/She has assessed 21 number
of answer scripts & moderation number of cases.
D.CN. DANGUCEVANICADI

Ref.No.PAHSUS/EXAM/CAP/ Date:- 11 /12 /2019

For Cap Coordinater
Punyas Blok Abilyad evig Halkar
Pun Sellapur, University Solupursky, Solapur.



Shrikrishna Education Society's,

#### Shrikrishna Mahavidyalaya, Gunjot

श्रीकृष्ण ग्रहाविद्यालयः गुजोटी, ता.उभरगा, जि.उस्पानावादः ४९३६०६ -Tq. Omerga: Dist. Osmanabad (M.S.) ४१३६०६ Ph. 02475-250091 Fax. 02475-250091 E-mail: skmg1991@yahoo.go!in; Website: www.skmg/in; Mob, 9421486384



Ref. No. SKMG/-1671 /

1366

Date: 08 /10 /20 1 9

Dr. B.J. Ugale Dept. of Zarlogt

Subject: Appointment of Internal Examiner / Expert for B.Sc. I/II/III

Subject Zolog + practical Examination April / May 20

OCH NOV. 2017

With reference to above subject you are appointed as Internal Examiner / Expert for B.Sc. I/II / III practical examination starting from 64 / 10 / 201 9

This is for your information for conducting said practical.

HEAD

Department of Zoology
S. K. M. Gunjott Tr. Omerge

Copy to:

Controller of Examination, Dr.B.A.M. University, Aurangabad. Principar (3a)
Shrikrishna Mahavidyalaya, Gordon
To. Omerga Dist. Osmanahed

DAExam unit/Exam 2013-14\Practical Time Table\letter Examiner.doc



|| न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ||

Shrikrishna Education Society's

#### SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI.

Tq.Omerga, Dist.Osmanabad-413613 Ph./Fax. (02475) 250091 Cell. 9421486384

Ref.No.S.K.M.G. / 2017 /2020 Date: 094 08/2020

Dr.D.R.Kulkarni I/c. Principal

Accredited by NAAC "B Grade"

Subject : Appointment of Internal Examiner / Expert for B.Sc. I / H / HI Subject Zalog practical Examination April / May 20 20

With reference to above subject you are appointed as Internal Examiner / Expert for B.Sc. I/H/HI practical examination starting from 1) / 03/202.0 This is for your information for conducting said practical.

Copy to:

Controller of Examination, Dr.B.A.M. University, Aurangabad.

D:\Exam Unit\Gen\letter Examiner.doc

#### Babasaheb Ambedkar Marathwada University

angabad-431 004. Maharashtra (India)

#### AC Re-accredited A Grade

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http://bamua.digitaluniversity.ac

Mail : coe@bamu.ac.in



#### डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ

औरंगाबाद-४३१ ००४. महाराष्ट्र (भारत) नॅक समिती तर्फे अ दर्जा प्राप्त

Office of the Controller of Examinations कार्यालय, परीक्षा नियंत्रक

Ref. No. Ex/D-CAS/PG-CAS/2019 | 09

Date 23.11.2019

#### RELIEVING LETTER

This is o certify that Dr. / Mr. / Ms Pawar N. T. did the
This is o certify that Dr. / Mr. / Mst
This is o certify that Dr. / Mr. / Ms
paper assessment work in the suject — English at B.A.B.C.  paper assessment work in the suject — English at D-CAS Centre & PG-CAS Centre,
Examination held in Ivial Programmy Shivaji College From -23.10.2019
To 23.11. 2019  and he / she is relieved from the said assignment
To-23.11 2019
1 Aom noon
He/She has not reported the D-CAS/PG-CAS Centre on the following dates,
He/She has not reported the D-CAS/T O-C/RS OOM
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He/She has checked the total number of papers ————————————————————————————————————
He/She has checked the total number of papers
given the T.A. / D.A./ Conveyance for Days.

COESTANIAN
University D. CAS Gentre
Shri Chinatropati Shivoji College
GUSROA Dist. Osmanib

#### DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD - 431 004. Maharashtra (India)

NAAC Re-Accredited 'A'

70240-2400431 to 2400437 Office Telephones J0240-2400467 to 2400469 (Office) 0240-2400104 Registrar (Resi.) 0240-2400203 0240-2400291/2400491 Fax: Telegram: BAMUSITY WWW.bamuniversity.org. Web Site: Bamuniversity.org 1 - Mail:



UNIVERSITY CAMPLA AURANGABAD-431 004 Maharishter (151) 151

Ref. No:- Exam/B.A./2019-20/

Date: 01/10/2019

#### RELIEVING LETTER

This is to certify that Dr. N.J. Pawar of Shrikrishna College, Gunjoti, Dist. Osmanabad attended the University office on 30/09/2019 in regard with the Examination work in the subject of English (Comp.) and he / She is relieved today i.e. on 01/10/2019 (After Noon).

Board of Examinations & Evaluation



#### पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर Punyashlok Ahilyadevi Holkar Solapur University, Solapur

(पूर्वीचे सोलापूर विद्यापीठ, सोलापूर)

Ref. No. PAHSUS/EXAM/2019/

Date: 06/12/2019

#### ATTENDANCE CERTIFICATE

This is to certify that Shri/Sr	m. Bhosale	H.S.		
of Shrikrishna College, Gunjo	to has attend	ed the assessmen	nt in the	subject of
of Shrikrishna College, Gunjo Makkematics at M.Sc.	Examinations sec	tion at the univers	sity office (	CAP Center
University Camp.) Solapur on dt	06/12/2019		Λ	
Ref.No.PAHSUS/EXAM/CAP/ Date:- 06 //2 /2019		Co-	Ordinator	

Punpshiry ashrok Anilyadevi Holkar Solapur University, Solapur Solapur University, Solapur

#### Department of Mathematics Shivaji University, Kolhapur

Date: 15/02/2020

#### **Attendance Certificate**

Convener

NSA-2020

Kolhapur. Kolhapur.

Chairperson NSA-2020



#### Punyashlok Ahilyadevi Holkar, Solapur University, Solapur.

Examinations and Evaluation Section Solapur-Pune National Highway, Kegaon, Solapur-४१३ २५५

EPABX No.0786- २७४४७६०/६१/६३/६६/७१/७२/७३/७४/७४/७९

Fax No.0786-7688660

Web Site: http://su.digitaluniversity.ac/www.sus.ac.in

email id: coe@sus.ac.in

#### ATTENDANCE CERTIFICATE

This is to certify that Shri / Smt. Bhosale H.S.
of Shrikrishna Mahavidyalaya,
Gunjott Tq-Omerga has attended the Paper Setting
Meeting / Assessment <del>√</del> 48(3) (a) Meeting in the Subject of
Mathematics at PAH Solapu
Iniversity Examination in the University Office.
Solapur On 17 03 2020
Ref. No. SUS/Exam./
Date :-
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Dayanand Nagar, Raviwar Peth,

Solapur - 413 002 (Maharashtra)

CHAN III SAIIGOHA

#### Dayanand College of Arts & Science, Solapur.

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Phone : 0217-2323193 Fax : 0217-2728900

Email : spr\_dayartsc@bsnl.in spr\_dayartsc@live.com

Website: http:// www.davsolapur.org

Date: 27/11/2019

#### CERTIFICATE

This is to certify that Shri.H.S.Bhosale, Associate Professor, Department of Mathematics, Shrikrishna Mahavidyalaya, Gunjoti has worked as an External Practical Examiner for M.Sc. Mathematics Part-I and Part-II at D.B.F.Dayanand College of Arts and Science, Solapur on 26<sup>th</sup> and 27<sup>th</sup> November 2019.

Principal

## University Marathwada

Aurangabad-431 004. Maharashtra (India)

NAAC Re-accredited A Grade

Telephone : (0240) 2403200 Office PBX: (0240) 2403399/400 Fax : (0240) 2403199/188

www.bamu.ac.in Web Site

http://bamua.digitaluniversity.ac coe@bamu.ac.in

E-Mail

## ७।. बाबासाहब साबद्धकर मराठवाडा विद्यापीठ

औरंगाबाद-४३१ ००४. महाराष्ट्र (भारत) नॅक समिती तर्फ अ दर्जा प्राप्त Office of the Controller of Examinations कार्यालय, परीक्षा नियंत्रक

03
No. Ex/D-CAS/PG-CAS/2019 - 20 / 0
Ref. 7

Date 19.11.2019

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B. A. B. A.  G. CAS Centre,  11.209  aid assignment	ng dates.	and has	CHECKENITA CHECKENITA CHINA CONTROLL
This is o certify that Dr. / Mr. / Ms. Ds. Kobale B. E  S. K. M. Gunloto  essment work in the suject — Hund  ion held in Mar. Apr. /OctNov. 2019 at D-CAS Centre & PG-CAS Centre, attapati Shivaji College  ACA Dist. Osmandad  19.11:2019  19.11:2019  19.11:2019	He/She has not reported the D-CAS/PG-CAS Centre on the following dates,	222 Days.	م م
א <u>D&amp;.</u> <mark>  לי</mark> עי עי עי עי עי עי עי עי עי שול אל	CAS/PG-CAS Cen	mber of papers	
This is o certify that Dr. / Mr. / MsOfSK. MQunlote*  So K. MQunlote*  Paper assessment work in the suject	reported the D-C	T.A. / D.A./ Conveyance for	A STATE OF THE STA
This is o certify that Dr.  S. K. M. Qu  paper assessment work in the suje  Examination held in Mar. Apr. Oct  Shri Chhattapatt Shivaji College  To	He/She has not	He/She has checked the total r given the T.A. / D.A./ Conveyance for -	
ofofShirts asShirts		given Ih	

NAGAR SHIKSHAN VIKAS MANDAL'S

# SHRI MADHAVRAO PATIL MAHAVIDYALAYA

(Art's Science & Commerce)

MURUM, Tq. OMERGA, Dist. OSMANABAD + 413605

Accredited By NAAC "B" Grade •

S.T.D. : (02475) Office : 256176

Resi. : 256325

E-Mail: smpc4717@rediffmail.com

PRINCIPAL : Dr. S. K. AKUSKAR (M.Sc.; Ph.D.)

smpc47@rediffmail.com

Outward No. :SMPC/ CAS/2019-20/

Date: 11/11 /2019

Dr. Konale B. E.

sheekrishna college, Gungoti

Subject: -Appointment of Local Hindi Subject Expert.

Sir,

the College teacher at Dr.B.A.M. University sub- center, Osmanabad on As per above cited subject university has organized CAS camp for date 13/11/2019 You are appointed as local subject expert.

You are informed to work as per the program of CAS

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mene, Menum

PICEREUSO 15 O EPIS



।। न हि ज्ञानेन् सदृशं पविज्ञामह विद्यते ।। Shrikrishna Education Society'



#### Shrikrishna Mahavidyalaya, Gunjot

श्रीकृष्ण महाविद्यालय, गुंजोटी, ता.उमरगा, जि.उस्मानाबाद. ४१३६०६ Tq. Omerga, Dist. Osmanabad (M.S.) 413606 🖀 / Fax - 02475-250091

E-mail: skmg1991@yahoo.co.in, Website: www.skmg.in @ 9421486384

Principal - Dr.D.R. Kulkarni

Date: 90 / 8 /209 €

Ref. No. SKMG / DCAS /

प्रात,
एपा । छार एन निगरे
दाज्यद्यास्त्र विभाग

विषय: पेपर मुल्यांकनाच्या कामाबाबत...

डॉ.बा.आं.म.विद्यापीठ, औरंगाबाद यांचे मार्च/एप्रिल २०१९ चे D-CAS केंद्र महाविद्यालयात सुरु होत असुन पेपर मुल्यांकन केंद्रासाठी करण्यात येणाऱ्या कामासाठी आपली नियुक्ती पासुन या कालावधीतील पेपर मुल्यांकनाचे संबंधित कामकाज पूर्ण होई पर्यंत करण्यात येत आहे. पुर्व परवानगीशिवाय/ अत्यंत महत्वाच्या कारणाशिवाय गैरहजर राहू नये. तसेच आपण महाविद्यालयीन कामकाजा बरोबर पेपर मुल्यांकन केंद्राचे काम जबाबदारीने पार पाडावे.

D-CAS Timing: 09.00 am to 05.00 pm.

Principal
Shrikrishoa Mahavidvalaya Gunical
Tq. Simergal Discontinuo ad







#### Sinikrishna Nahavidyalaya, Gunjot

श्रीकृष्ण महाविद्यालय, गुंजोटी, ता.उमरगा, जि.उस्मानाबाद. ४९३६०६ Tq. Omerga, Dist. Osmanabad (M.S.) 413606 🖀 / Fax - 02475-250091

Principal - Dr.D.R. Kulkarni

Date: 231/012019

E-mail: skmg1991@yahoo.co.in, Website: www.skmg.in @ 9421486384

Ref. No. SKMG/DCAS/01-06

प्रति.

91 ST. ST. 91. -465101 सह। प्राह्मापक कान्यवन महा. ग्रेनाही

विषय: पेपर मुल्यांकनाच्या कामाबाबत...

डॉ.बा.आं.म.विद्यापीठ, औरंगाबाद यांचे ऑक्टोबर/नोव्हेंबर २०१९ चे D-CAS केंद्र महाविद्याल्नयात सुरु होत असुन पेपर मुल्यांकन केंद्रासाठी करण्यात येणाऱ्या कामासाठी दि 23/10/2019 पासुन या कालावधीतील पेपर मुल्यांकनाचे संबंधित कामकाज पूर्ण होई पर्यंत करण्यात येत आहे. पुर्व परवानगीशिवाय/ अत्यंत महत्वाच्या कारणाशिवाय गैरहजर राहृ नये. तसेच आपण महाविद्यालयीन कामकाजा बरोबर पेपर मुल्यांकन केंद्राचे काम जबाबदारीने पार पाडावे.

D-CAS Timing: 09.00 am to 05.00 pm.

D-CAS Center S.K.M.Gunjoti Dist.Osmanabad





#### ।। न हि जानेन सदुर्श पत्रिज्ञांपह विद्यते ।। Shrikrishna Education Society's



#### Shrikrishna Mahautibyakiya, Gunjut

श्रीकृष्ण महाविद्यालय, गृंजोटी, ता.उमरगा, जि.उम्मानाबाद. ४१३६०६ Ta. Omerga, Diet. Gemanabad (M.S.) 413606 **था** रहेबर 02475-266691

E-mail : skmg1991@yahoo.co.in, Websile : www.skmg.in 🛈 9421486984

Principal - Gr.O.R. Kulkarni

Ref. No. SKMG / DEAS / O1- 3

Date 9/2 1/6 /2019

प्रति.

त्रा. आर. एन. किगडे सह। प्राह्मापक स्त्रीकृतन महा- महा-

विषय : पेपर मृल्यांकनाच्या कामाबाबत...

डॉ.बा.आं.म.विद्यापीठ, औरंगाबाद यांचे ऑक्टोबर/नोव्हेंबर २०१९ चे D-CAS केंद्र महाविद्यालयात सुरु होत असुन पेपर मुल्यांकन केंद्रासाठी करण्यात येणाऱ्या कामासाठी आपली नियुक्ती प्राप्त या कालावधीतील पेपर मुल्यांकनाचे संबंधित कामकाज पूर्ण होई पर्यंत करण्यात येत आहे. पूर्व परवानगीशिवाय/ अल्यंत महत्वाच्या कारणाशिवाय गैरहजर राहृ नये. तसेच आपण महाविद्यालयीन कामकाजा बरोबर पेपर मुल्यांकन केंद्राच काम जबाबदारीन पार पाडावे.

D-CAS Timing: 09.00 am to 05.00 pm.

CASTON CANDITOR OF THE CONTROL OF TH



#### (i) स दि जातीन संतुष्ट प्राय समित विद्यंते । । Shrlkitshina Education Society's



श्रीकृष्ण महाविद्यालय, गुंजोटी, ता.उमरमा, जि.उस्मानाबाद. ४१३६०६ Tq. Omerga, Dist. Osmanabad (M.S.) 413606 🖀 /Fax - 02475-250091

L-mail: skmg1991@yahoo.co.in; Wabsito.; www.skmg.in | @(9421406384) Principal - Dr.D.R. Kulkarni

Ref. No. SKMG/DCAS / 51/2018

Date: 86/12 /2018

#### CERTIFICATE

This is to certify that Dr./Mr. G. M. Rathod of Shrikrishna Mahavidyalaya, Gunjoti worked as an Officer for ... 5.3.. Days in the D-CAS center from 27./.03./.2018... to..18/.05/.2018 at University examinations held in Oet./ Nov./ March /April 2018.

Hence certified

D-CAS Centre Custodian D-CAS Certist. S.K.M.Gunjoti Dist.Osmensba



#### BHAUSAHEB BIRAJDAR SENIOR COLLEGE, BALSOOR

Tq. Omerga Dist. Osmanabad-413604 mob no.7755981631 (Affilated to Dr. Babasaheb Ambedkar Marathwada university, Aurangabad)

PRINCIPAL ESTABISHED : Jully 2009

DR. S.S.Gaikwad

Ref No. B.B.S.C.B./Exam/2020/

Date: 29/02/2020

To,

Prof. Y. A. Vijapure shri krishna maharidylaga Gunjoti

Subject :- Appointment of External/Internal Examiner for B.Sc. \_\_\_\_\_\_year

Practical Examination.

Mar/Apr 2020 in the Subject \_\_\_\_\_\_ at B.B.S. College Balsoor.

With reference to above subject as per Dr. B.A.M. University, Aurangabad letter Ref. Exam/B.Sc./2020/4228 Date 24/02/2020 your are Appointed as a Examiner to Conduct the University Practical Examination on 62/03/2020 To 69/03/2020

This is for your information for conducting said practical.

PRINCIPAL
Bhausaheb Birajdap Sr. College
Bassoor Tq. Omerge Dist Osmanabad

#### Copy to:

- 1) Principal
- 2) Controller of Examination Dr. B.A.M.U Aurangabad



#### शेतकरी शिक्षण प्रसारक मंडळ, बलसूर संचलित

#### भाऊसाहेब बिराजदार वरिष्ठ महाविद्यालय, बलसुर

(कला व विज्ञान)

प्राचार्य डॉ. एस. एस. गायकवाड ता.उमरगा जि.उस्मानाबाद

स्थापना : जुलै २००९ फोन (०२४७५) २६५०५१

VII. \$ BBS ⊂ B /Exam 2020/619

दिनांक 09/03/2020

To,

Principal,

Shrikrishna mahandyalaya

Gunjoh

Subject :- Reliving letter,

Respected Sir,

With Reference to Above Subject Prot Vijapur Y. A of your college Appointed as External Examiner at our College By the University for university Examination March 2020 From 02/03/2020.

He has been Relieved on 09 / 03 /2020 at 6.00 PM

Thanking you,

PRINCIPAL
Bhausaheb Birajdar Sr. College
Balsoor Tq. Omerga Dist Osmanabad



।। न हि ज्ञानेन् सदृशं पवित्रमिह विद्यते ।। Shrikrishna Education Society's



#### Shillitshia Mahavithalara, Guijoti

श्रीकृष्ण महाविद्यालय, गुंजोटी, ता.उमरगा, जि.उस्मानाबाद. ४१३६०६ Tq. Omerga, Dist. Osmanabad (M.S.) 413606 🖀 / Fax - 02475-250091

E-mail: skmg1991@yahoo.co.in, Website: www.skmg.in @ 9421486384

Principal - Dr.D.R. Kulkarni

Ref. No. SKMG / 1983 /2020

Date: 25/02/2020

प्रति

प्रा. वायः ए. विजापूरे इसावन शास्त्र न्डीष्ठळा प्रसाविद्यालय गुंजोरी

विषय : लघु व दिर्घ संशोधन अहवालबाबत. (Major & Minor)

संदर्भ : संस्था आदेश पञ दि.०३/०२/२०२०.

उपरोक्त विषयी आपणास कळविण्यात येते की, आपणास युजीसी कडून लघु व दिर्घ संशोधन प्रकल्प मंजूर झाले आहे.

सदरील मंजूरी पञ निधी विभागणी साहित्य सुची, ऑडीट रिपोर्ट, संशोधनाचा विषय व आपला अहवाल तात्काळ कार्यालयात जमा करावेत.

Principal

Shrikrishna Mahavidyalaya,Gumot



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EDUCATION FOR DEPRIVED

## Shrikrishna Mahavidyalaya, Gunjoti

Fq. Omerga, Dist. Osmanabad

## **Syllabus Completion Report**

Academic Year (2019-2020)

Department: **Chemistry** 

Name of Faculty: Mr. Y. A. Vijapure

sselJ	Daner No	Total No	Total No of Periods	Whethe	Whether Syllabus	APIS	API Score
CCERTS	aper no.	As per plan	As per plan Actually taken	Completed	Not Completed	Actual	Verified
B.Sc. I (I- SEM)	Paper No. I	45	42	93.33	99.9	4.66	
B.Sc. II (III-SEM)	Paper No. VII	45	42	93.33	6.67	4.66	
B.Sc. I (II-SEM)	Paper No. V	45	40	88.89	11.11	4.44	
B.Sc. II (IV-SEM)	Paper No. X	45	44	97.78	2.22	4.88	
B.Sc. I (I- SEM)	Paper No. III,IV	06	06	100	0	10	
B.Sc. II (III-SEM)	Paper No. XI,XII	06	84	97.78	2.22	9.33	
B.Sc. I (II-SEM)	Paper No. VII,VIII	06	06	100	0	10	
B.Sc. II (IV-SEM)	B.Sc. II (IV-SEM) Paper No. XV, XVI	06	06	100	0	10	

Respected Sin

I have submitted herewith the DTR, student attendance and syllabus completion report. I have worked as member of time table E-suvidha, UGC-Cell, Competitive exam committee and excursion tour committee for this academic year and submitting the report of committee, Science committee and completed the hours as mentioned in the PBAS in this academic year. Also I have worked as Member of concern committees. Sir, I need the certificates of concern committees and also the API score of syllabus completion.

**Total 57.97** 



Signature of Faculty



#### **Research Publications**

\_

#### Examinner



।। न हि ज्ञानेन् सदृशं पविञमिह विद्यते ।। Shrikrishna Education Society's



#### Shrikrishna Mahavithyalaya, Cumjot

श्रीकृष्ण महाविद्यालय, गुंजोटी, ता.उमरगा, जि.उस्मानाबाद. ४१३६०६ Tq. Omerga, Dist. Osmanabad (M.S.) 413606 🖀 /Fax - 02475-250091

E-mail: skmg1991@yahoo.co.in, Website: www.skmg.in @ 9421486384

Principal - Dr.D.R. Kulkarni

Ref. No. SKMG / 25921 24

Date: / /20

To,

Dr. Y. A. Vijapure,

Shrikrishna Mahavidyalaya,

Gunjoti.

Subject: -

Appointment of Internal Examiner for B.Sc., I year Practical Examination In subject CHEMISTRY at S. K. M. Gunjoti.

With reference to above subject, as per Dr. Bbasaheb Ambedker Marathwada University, Aurangabad, letter Ref. B.Sc./2019/Dated 20/02/2019, you are appointed as an External examiner to conduct University Practical Examination on **01** August **2021** 

This is for information for conducting said practical

Yours Faithfully

Principal
Principal
Individual Mahavinyalaya, C

Similarishma Mahawlayalaya,Gunjoti Tq.Omerga Dist.Osmanabad

Copy to

Controller of Examination, Dr. B. A. M. University , Aurangabad.



EDUCATION FOR DEPRIVED

# Shrikrishna Mahavidyalaya, Gunjoti

Tq. Omerga, Dist. Osmanabad

# **Syllabus Completion Report**

Academic Year (2020--2021)

Department: Chemistry

Name of Faculty: Mr. Y. A. Vijapure

Closes	Donor No.	Total No	Total No of Periods	Whethe	Whether Syllabus	API	API Score
Class	rapel No.	As per plan	As per plan Actually taken	Completed	Not Completed	Actual	Verified
B.Sc. I (I- SEM)	Paper No. I	45	40	88.88	11.12	4.44	
B.Sc. II (III-SEM) Paper No. VII	Paper No. VII	45	40	88.88	11.12	4.44	
B.Sc. I (II-SEM)	Paper No. V	45	41	91.11	8.89	4.55	
B.Sc. II (IV-SEM)	Paper No. X	45	40	88.88	11.12	4.44	
B.Sc. I (I- SEM)	Paper No. III,IV	06	80	88.88	11.12	88.88	
B.Sc. II (III-SEM) Paper No. XI,XII	Paper No. XI,XII	06	84	93.33	6.67	9.33	
B.Sc. I (II-SEM)	Paper No. VII,VIII	06	08	88.88	11.12	88'8	
B.Sc. II (IV-SEM)	B.Sc. II (IV-SEM) Paper No. XV, XVI	06	84	93.33	6.67	9.33	

Respected Sir,

I have submitted herewith the DTR, student attendance and syllabus completion report. I have worked as member of time table committee, Science committee and completed the hours as mentioned in the PBAS in this academic year. Also I have worked as Member of E-suvidha, UGC-Cell, Competitive exam committee and excursion tour committee for this academic year and submitting the report of concern committees. Sir, I need the certificates of concern committees and also the API score of syllabus completion.

mature of Faci

Signature of Faculty

Principal
Principal
Principal
Shrikrishna Mahavidyalaya
Gunjoti - 413 613
Gunjoti - A08 (M.S.)

GEDRAG & ORGANISATIE REVIEW - ISSN:0921-5077

http://lemma-tijdschriften.nl/

#### Reinvestigations on the effect of heat treatment on the properties of Ni-Cr-Fe-O ferrite nanoparticles synthesized via sol-gel route

Y. A. Vijapure<sup>a</sup>, S. K. Gurav<sup>b</sup>, S. S. More<sup>c</sup>, R. H. Kadam<sup>d\*</sup>, S. K. Akuskar<sup>e</sup>

<sup>a</sup>Chemistry Department, Shrikrishna Mahavidyalaya, Gunjoti, Tq. Omerga, Dist. Osmanabad (M.S.) India <sup>b</sup>Physics Department, S.M.P. College, Murum, Tq. Omerga, Dist. Osmanabad (M.S.) India <sup>c</sup>Physics Department, Y.C. College, Tuljapur, Dist. Osmanabad (M.S.) India <sup>d</sup>Physics Department, Shrikrishna Mahavidyalaya, Gunjoti, Tq. Omerga, Dist. Osmanabad (M.S.) India <sup>e</sup>Chemistry Department, S.M.P. College, Murum, Tq. Omerga, Dist. Osmanabad (M.S.) India \* Corresponding author: ram111612@yahoo.co.in

#### **ABSTRACT**

Nickel chromium ferrite nanoparticles were synthesized by using sol-gel auto combustion technique and sintered for two different temperatures at 800°C and 1000°c. Effect of heat treatment on the structural, magnetic and dielectric properties was systematically investigated by using X-ray diffraction, scanning electron microscopy, vibrating sample magnetometer and two-probe technique. Increase in sintering temperature increases the crystallite size of the particles from 15.57 nm to 25.75 nm. Increase in sintering temperature reduces the lattice parameter and specific surface area of the samples. Scanning electron micrographs confirms the fine crystanallity and porous structure of the samples. The absorption bands shifted slightly with the change in sintering temperature. Higher value of sintering temperature enhances the saturation magnetization from 15.46 emu/gm to 35.35 emu/gm. Values of squreness ratio reveals the multi-domain structure for the sample sintered at 600°C and single domain for the sample sintered at 1000°C.

Keywords: Sintering temperature, crystallite size, absorption bands, squareness ratio.

#### INTRODUCTION

The variety of applications in various fields, synthesis and processing of nanomaterials attracted many researchers in the recent years. In microwave devices (e.g. circulators, isolators, phase shifters), magnetic nanoparticles for drug delivery, high density storage media, radio frequency coils fabrication, magnetic cores in transformers and telecommunication devices, ferries nano-particles specially spinel nano-ferrites have been widely used [1-2]. Nickel ferrite belongs to the inverse spinel structure have been investigated by many researchers for various purposes [4-7]. Doped nickel ferrites with high

#### Reinvestigations on the effect of heat treatment on the properties of Ni-Cr-Fe-O ferrite nanoparticles synthesized via sol-gel route

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 <sup>b</sup>Physics Department, S.M.P. College, Murum, Tq. Omerga, Dist. Osmanabad (M.S.) India
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 <sup>d</sup>Physics Department, Shrikrishna Mahavidyalaya, Gunjoti, Tq. Omerga, Dist. Osmanabad (M.S.) India
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Nickel chromium ferrite nanoparticles were synthesized by using sol-gel auto combustion technique and sintered for two different temperatures at 800°C and 1000°C. Effect of heat treatment on the structural, magnetic and dielectric properties was systematically investigated by using X-ray diffraction, scanning electron microscopy, vibrating sample magnetometer and two-probe technique. Increase in sintering temperature increases the crystallite size of the particles from 15.57 nm to 25.75 nm. Increase in sintering temperature reduces the lattice parameter and specific surface area of the samples. Scanning electron micrographs confirms the fine crystanallity and porous structure of the samples. The absorption bands shifted slightly with the change in sintering temperature. Higher value of sintering temperature enhances the saturation magnetization from 15.46 emu/gm to 35.35 emu/gm. Values of squreness ratio reveals the multi-domain structure for the sample sintered at 600°C and single domain for the sample sintered at 1000°C.

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#### INTRODUCTION

The variety of applications in various fields, synthesis and processing of nanomaterials attracted many researchers in the recent years. In microwave devices (e.g. circulators, isolators, phase shifters), magnetic nanoparticles for drug delivery, high density storage media, radio frequency coils fabrication, magnetic cores in transformers and telecommunication devices, ferries nano-particles specially spinel nano-ferrites have been widely used [1-2]. Nickel ferrite belongs to the inverse spinel structure have been investigated by many researchers for various purposes [4-7]. Doped nickel ferrites with high

#### RESULTS AND DISCUSSION

X-ray diffraction pattern represented in Fig. 1 shows the reflection peaks for the planes (210), (220), (311), (222), (400) (421), (430), (333), (440) and (433) which are related to the cubic spinel structure. The additional peaks confirm the co-existence of α-Fe<sub>2</sub>O<sub>3</sub> phase in the samples (JCPDS card 33-0664). It also shows the rhombohedral phase of Cr<sub>2</sub>O<sub>3</sub> (JCPDS card 38-1479). It was found that Cr rich materials show predominantly Cr<sub>2</sub>O<sub>3</sub> and A<sup>II/III</sup>Cr<sub>2</sub>O<sub>4</sub>, which is in good agreement with the literature a report [10]. The formation of the Fe<sub>2</sub>O<sub>3</sub>-Cr<sub>2</sub>O<sub>3</sub> solid solution is depending on the synthesis conditions and synthesis temperature in particular. It has been reported that the single-phase solid solutions of Fe<sub>2</sub>O<sub>3</sub>-Cr<sub>2</sub>O<sub>3</sub> can be obtained at high temperatures (above 1400 K) [11, 12]. Phase separation in samples of intermediate composition, with solubility limits of ~28 and ~65 mol% of Cr in hematite at 1173 and 1373 K, respectively has been reported previously [13, 14]. The separation of 1:1 mixtures into Cr<sub>2</sub>O<sub>3</sub>-rich and Fe<sub>2</sub>O<sub>3</sub>-rich phases has also been observed, when sintered for 1 h at temperature below 1213 K [15]. By using the values of inter-atomic distances (d) and miller indices (hkl) in the following relation, lattice constant was calculated [16]. It can be seen that, the lattice constant reduced from 8.310 Å to 8.300 Å with the increase in sintering temperature. Table 1 represents the values of lattice parameter and unit cell volume of the sample sintered at 600°C and 1000°C. Similar behaviour of lattice parameter is also found in previous studies [1, 3].

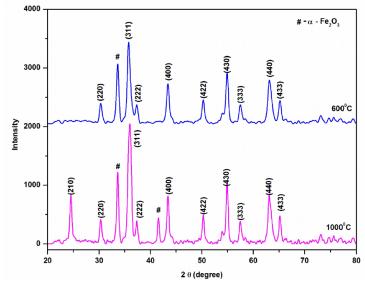


Fig. 1: X-ray diffraction patterns of NiCrFeO<sub>4</sub> sintered at 600<sup>o</sup>C and 1000<sup>o</sup>C

**Table 1:** Lattice constant (a), X-ray density (d<sub>X</sub>), bulk density (d<sub>B</sub>), percentage porosity (P), specific surface area (s), crystallite size (t), for NiFeCrO<sub>4</sub> samples.

Tomn	ʻa'	'd <sub>X</sub> '	'd <sub>B</sub> '	'P'	'S'	't' (	nm)
Temp.	(Å)	(gm/cc)	(gm/cc)	(%)	'S' (m <sup>2</sup> /gm)	XRD	SEM
$600^{0}$ C	8.310	5.336	4.012	33.00	96.06	15.57	38
1000°C	8.300	5.356	3.912	36.91	59.56	25.75	57

X-ray density ' $d_X$ ' was obtained by using the molecular weight and unit cell volume in the following relation [3],

$$d_{X} = \frac{8M}{N_{A}V} \tag{1}$$

Sintering conditions greatly affects the X-ray density and it was found higher (5.336 gm/cc) for the sample sintered at 600°C than that of the sample sintered at 1000°C (5.356 gm/cc). Crystallite size of the composition also vary with sintering temperature which was calculated by using the following relation [17],

$$t = \frac{(k\lambda)}{(\beta \cos \theta)} \tag{2}$$

Where, k is a constant (0.9),  $\lambda$  is wavelength (1.5405 Å) of incident X-rays,  $\theta$  is Bragg's angle and  $\beta$  is the FWHM (Full width at half maxima) of the peak. The crystallite size varies from 15.57 nm for the samples heated at  $600^{\circ}$ C to 25.75 nm for the samples heated at  $1000^{\circ}$ C, which means that the crystallite size increases with the sintering temperature. Bulk density of the samples was calculated by using simple mass volume relation and the values are presented in Table 1. Porosity in percentage was calculated by using X-ray density and bulk density in the relation discussed elsewhere [18]. Higher values of X-ray density than the bulk density clearly indicates the porous nature of the samples.

By inserting the values of crystallite size and X-ray density obtained from XRD data in the following relation [19], specific surface is calculated,

$$S = \frac{6000}{t \times d_x} \tag{3}$$

It is observed that, specific surface area decreases from 96.06 m<sup>2</sup>/gm for the sample heated at 600°C to from 59.56 m<sup>2</sup>/gm for the sample heated at 1000°C. As the specific surface area is related with crystalline diameter and X-ray density, both are increases with sintering temperature, which in result decreases the specific surface area.

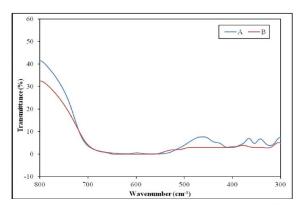


Fig. 2: IR spectra of NiFeCrO<sub>4</sub> nanoparticles sintered at (A) 600<sup>0</sup>C and (B) 1000<sup>0</sup>C

Fig. 2 depicts the infrared spectra of NiFeCrO<sub>4</sub> ferrite nanoparticles sintered at  $600^{\circ}$ C and  $1000^{\circ}$ C recorded at room temperature in the range of 300 cm<sup>-1</sup> to 800 cm<sup>-1</sup>. As a common feature of spinel ferrites, infrared spectra of the present samples also show two main absorption bands [20]. Waldron [21] in his study observed that the high frequency band  $v_1$  is related to the intrinsic vibrations of the metal ions with oxygen atoms at tetrahedral site and low frequency band  $v_2$  is related to the vibrations at octahedral site. It is observed that  $v_1$  slightly shifted towards higher frequency and  $v_2$  shifted towards low frequency as the sintering temperature changes from  $600^{\circ}$  to  $1000^{\circ}$ C.

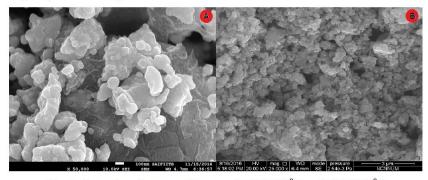


Fig. 3: Scanning electron micrographs (A)  $600^{\circ}$ C and (B)  $1000^{\circ}$ C

Fig. 3 shows the scanning electron micrographs of the samples sintered at both temperatures 600°C and 1000°C. A keen observation the SEM micrographs shows the well defined and mostly spherical shaped grains on the surface of the samples. The heat treatment affects on the surface morphology and some voids are observed. The average grain size was estimated

for all the samples by using SEM images with the help of online software (Image J). Values of average grain size for the samples sintered at both temperatures 600°C and 1000°C are given in Table 1 which is found higher than that obtained from XRD data. The growth in grain size may be due to the small agglomeration occurred due to the magnetic interactions.

**Table 2:** Absorption bands ( $v_1$  and  $v_2$ ), saturation magnetization ( $M_S$ ), remnant magnetization ( $M_r$ ), squareness ration ( $M_r/M_S$ ) and coercivity ( $H_C$ ) for NiFeCrO<sub>4</sub> samples.

Town	Absorption	on bands	'M <sub>S</sub> '	'M <sub>r</sub> '	(M/M)	'H <sub>C</sub> ' (Oe)
Temp.	ν <sub>1</sub> (cm <sup>-1</sup> )	ν <sub>2</sub> (cm <sup>-1</sup> )	(emu/gm)	(emu/gm)	$(M_r/M_S)$	(Oe)
600°C	542.3	394.2	15.46	7.15	0.462	1027
1000°C	549.8	358.4	35.35	22.14	0.626	1212

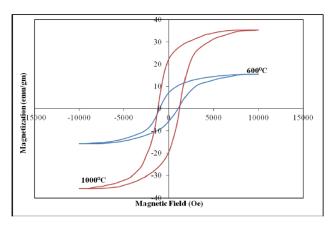


Fig. 4: Hysteresis loops of NiFeCrO<sub>4</sub> ferrite nanoparticles.

Hysteresis loops for the samples heated at both temperature is shown in Fig. 4. The study of these M-H loops gives the information of several magnetic parameters viz. saturation magnetization ( $M_S$ ), remnant magnetization ( $M_T$ ), coercivity ( $H_C$ ) and squareness ratio ( $M_T/M_S$ ) and the values are given in Table 1. Magnetic behaviour of Ni-Cr-Fe-O ferrite nanoparticles is greatly affected by sintering temperature. Saturation magnetization is correlated with crystallite size of the samples. Increase in crystallite size with sintering temperature increases the saturation magnetization of the samples. Remnant magnetization also increases from 7.15 emu/gm to 22.14 emu/gm with increase in sintering temperature from  $600^{\circ}$ C to  $1000^{\circ}$ C. The squareness ratio calculated for the sample sintered at  $600^{\circ}$ C is observed below 0.5 which is a clear indication of multi-domain structure of the sample while

as it obtained above 0.5 for the sample heated at  $1000^{\circ}$ C which is the indications of single domain structure. The higher value of remnant ratio makes ferrites suitable for magnetic recording media as high density memory devices [22]. Coercivity of the samples is related to saturation magnetization (M<sub>S</sub>) by the relation obtained from the Stoner-Wohlfarth theory [39-40]. Coercivity of the samples increases with the sintering temperature, for the sample sintered at  $600^{\circ}$ C, it is observed 1027 (Oe) and for the sample sintered at  $1000^{\circ}$ C it is 1212 (Oe).

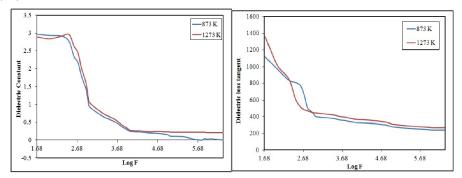


Fig. 5: Variation of dielectric constant and dielectric loss tangent.

Dielectric constant ( $\epsilon$ ') and dielectric loss tangent (tan $\delta$ ) were measured within a frequency range of 50 Hz to 20 MHz. Fig. 5 shows the variation of dielectric constant ( $\epsilon$ ') and variation of dielectric loss tangent as a function of frequency for the samples sintered at  $600^{\circ}$ C and  $1000^{\circ}$ C. It is observed that dielectric constant and dielectric loss tangent are high at lower frequency region and it decreases with increase in frequency for both samples. As the frequency increases the electrons cannot keep up with the applied field which in results decreases the probability of electrons reaching towards the grain boundaries and hence dielectric constant decreases.

#### CONCLUSIONS

Nanoparticles of NiCrFeO<sub>4</sub> were successfully synthesized by sol-gel route and characterized for two different temperatures. Crystallite size increases with the increase in sintering temperature while as specific surface area decreases. Nanocrystallinity of the samples is confirmed by using XRD data and SEM images. Saturation magnetization and coercivity increases with the increase in sintering temperature. Dielectric constant and dielectric loss tangent shows higher values for lower frequency region and vice versa.

#### **REFERENCES:**

- G. Mustafa, M. U; Islam, W. Zhang, Y. Jamil, M. A. Iqbal, M. Hussain, M. Ahmed; J. Magn. Magn. Mater. 378 (2015) 409-416.
- [2] L. Li, H. Liu, Y. Wang, J. Jiang, F. Xu; J. Colloid Interface Sci. 321 (2008) 265-271.
- [3] G. Mustafa, M. U. Islam, W. Zhang, Y. Jamil, A. W. Anwar, M. Husaain, M. Ahmed; J. Alloys. Com. 618 (2015) 428-436.
- [4] A. M. Gismelseed, A. A. Yousif; Physica B 370 (2005) 215-222.
- [5] V. Spelak, M. Menzel, I. Bergmann, M. Wiebcke, F. Krumeich, K. D. Becker, J. Magn. Magn. Mater. 272-276 (2004) 1616-1618
- [6] O. Helgason, J. Z. Jiang; Hyper. Inter. 139-40 (2004) 325-333.
- [7] S. H. Lee, S. J. Yoon, G. J. Lee, H. S. Kim, C. H. Yo, K. Ahn, D. H. Lee, K. H. Kim, Mater. Chem. Phys.; 61 (1999) 147-152.
- [8] A. M. El-Sayed; Mater. Chem. Phys; 82 (2003) 583-587.
- [9] A. K. M. Zakeria, M. A. Asgar, S. G. Eriksson, F. U. Ahmed, S. M. Yunus, H. Rundlof; J. Magn. Magn. Mater. 265 (2003) 311-320.
- [10] G. R. Holcomb, D. E. Alman; Scripta Materialia 54 (2006) 1821–1825
- [11] K. F. McCarty, D. R. Boehme; 1989, 79, 19.
- [12] M. I. Pownceby, M. J. Fisher-White, V. Swamy; J. Solid State Chem., 2001, 161, 45.
- [13] S. Music, M. Lenglet, S. Popovic, B. Hannoyer, I. CzakoNagy, M. Ristic, D. Balzar and F. Gashi; J. Mater. Sci., 1996, 31, 4067.
- [14] S. Music, S. Popovic and M. Ristic; J. Mater. Sci., 1993, 28, 632.
- [15] Y. Murakami, A. Sawata, Y. Tsuru, K. Akiyama; J. Mater. Sci., 2003, 38, 2723.
- [16] S. T. Assar, H. F. Abosheiasha; J. Magn. Magn. Mater. 324 (2012) 3846-3852.
- [17] E. Pervaiz, I. H. Gul; J. Magn. Magn. Mater. 343 (2013) 194-202.
- [18] N. Kumari, V. Kumar, S. K. Singh; Ceram. Inter. 40 (2014) 12199-12205.
- [19] A. M. Dumitrescu, P. M. Samoila, V. Nica, F. Doroftei, A. R. Iordan, M. N. Palamar; Powder technology 243 (2013) 9-17.
- [20] Vivek Choudhari, R. H. Kadam, M. L. Mane, S. E. Shirsath, A. B. Kadam, D. R. Mane; J. Nanosci. Nanotch. 14 (2014) 1-8
- [21] R. D. Waldron, Phys. Rev. 99 (1727) 1955.
- [22] M. Rajendran, R. C. Pullar, A. K. Bhattacharya, D. Das, S. N. Chintalapudi, C. K. Majumdar, J. Magn. Magn. Mater. 232 (2001) 71.

# EFFECT OF SINTERING TIME ON THE STRUCTURAL AND MAGNETIC PROPERTIES OF COBALT-CHROMIUM FERRITE NANO-PARTICLES

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#### **ABSTRACT**

Magnetic nanoparticles of CoCrFeO<sub>4</sub> were obtained by using sol-gel auto-combustion route and sintered for two different times 4h and 8h. X-ray diffraction technique was employed to understand the crystal structure and phase formation and also to study the structural parameters influenced by changing the sintering conditions. X-ray data analysis confirms the cubic spinel structure, and the lattice parameter is observed increasing with sintering temperature. Crystallite size evaluated by using Scherrer equation is observed in nano-meter range which is confirmed by using scanning electron micrographs. Infrared spectra recorded in the range 300 cm<sup>-1</sup> to 800 cm<sup>-1</sup> shows two major absorption bands (v<sub>1</sub>) and (v<sub>2</sub>) which are related to ferrites with spinel structure. Increase in sintering temperature enhances the saturation magnetization (M<sub>s</sub>), remnant magnetization (M<sub>R</sub>) and decreases the coercive field (H<sub>c</sub>). Sintering conditions greatly affects the structural and magnetic parameters of the ferrites with spinel structure. Hence in the present study we have reported the influence of sintering time on the properties of Co-Cr-Fe-O ferrite nanoparticles prepared by sol-gel technique.

**Keywords:** Sintering time, crystallite size, absorption bands, saturation magnetization

#### INTRODUCTION

After the introduction of theory of ferrimagnetism by Neel [1] in 1948, many researchers switch their work to study the properties of ferrites from micrometer to nanometer scale. Since from the last few years, several researchers have reported on the properties of pure and doped spinel ferrite nanoparticles because of their technological importance [2-7]. The advancement in electronic devices prepares them to work in the microwave frequency region with wider range such as mobile phones, LAN (wireless) systems, and bluetooth technologies. Growing use of microwave based equipments increases the electromagnetic pollution in this range creating a serious problem which has to be solved. To resolve the problem regarding electromagnetic pollution, development of handy electromagnetic radiation absorbers will be essential and demanding [8-9]. For the fabrication of electromagnetic radiation absorbers, ferrites [5], conducting fibers [10], ferromagnets [11], and carbon nano-tubes [12] are mostly used because of their high resistivity and very low eddy current losses. In particular cobalt ferrite attracted much interest due to its wide use in the fabrication of high density magneto-optical recording materials [13]. Cobalt ferrite nanoparticles with spinel structure show some interesting properties over the other materials such as very high saturation magnetization, high coercivity, large magnetocrystalline anisotropy, excellent chemical stability and good mechanical hardness. Cobalt ferrite shows inverse spinel structure and the percentage of inversion depends on the synthesis method and sintering conditions [14]. The intrinsic properties of ferrites can be controlled by synthesis conditions. Chemical methods of ferrite synthesis are the favorable routs in order to obtain the homogeneous powders with nano-particle size and desirable physical and chemical properties. In the present investigation we attempt to study the effect of sintering temperature on the structural and magnetic properties of CoFeCrO<sub>4</sub> ferrite nanoparticles synthesized by using sol-gel technique.

#### MATERIALS AND METHODS

#### Sample synthesis:

The synthesis method and synthesis condition plays an important role to decide the structural and magnetic behaviour of ferrites. Metal nitrates of constituent elements having chemical formula Co(NO<sub>3</sub>)<sub>2</sub>.6H<sub>2</sub>O, Fe(NO<sub>3</sub>)<sub>3</sub>.9H<sub>2</sub>O and Cr(NO<sub>3</sub>)<sub>3</sub>.9H<sub>2</sub>O were used as starting materials and mixed in sufficient amount of double distilled water with their weight proportion in the composition. The whole mixture was placed on hot plate with magnetic stirrer. The mixture is stirred continuously with constant heating at 80°C for 2-3 hours. Citric

acid was used as chelating agent in the ratio with metal nitrates as 1:3 and the pH of the mixture was maintained at 7 by adding liquid ammonia continuously. After continuous heating and stirring the density of the mixture increases and it converted into sol. After some time the puffy sol was converted into dried gel and suddenly auto ignited which in turns converted the mixture into burnt ash. The ash was grinded for homogenous mixture and then first heat treatment was given at 600°C for 4 hours which produces almost the final product. These powders were divided into two equal parts, half is heated at 800°C for 4 hours and remaining is heated at same temperature for 8 hours.

#### Characterization techniques:

Room temperature X-ray diffraction technique was employed to understand the crystal structure and phase formation. XRD patterns were recorded by using Cu-K $_{\alpha}$  radiations ( $\lambda$  = 1.5406×10<sup>-10</sup> m) in the 20 range of 20<sup>0</sup> to 80<sup>0</sup> with the scanning rate of 2 degree per min. the structural parameters such as lattice parameter (a), X-ray density (d<sub>X</sub>), porosity (P) and average crystallite size were estimated by using X-ray diffraction data. Band positions and force constants at tetrahedral – A and octahedral –B sites were obtained by using Infrared spectra recorded in the frequency range of 300 cm<sup>-1</sup> to 800 cm<sup>-1</sup>. Morphological analysis of the samples was done by using scanning electron micrographs (SEM) and grain size of the samples was also estimated. Magnetic measurements were taken by using vibrating sample magnetometer (VSM) at room temperature.

#### RESULTS AND DISCUSSION

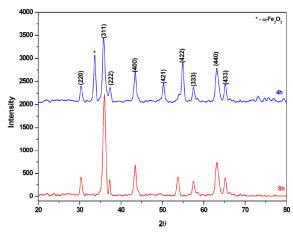


Fig. 1: XRD patterns of CoFeCrO<sub>4</sub> sintered at 800°C for two different times.

Powder X-ray diffraction pattern shown in Fig. 1 shows sharp and intensive peaks indexed with the planes (220), (311), (222), (400), (422), (333), (440) and (433) which are corresponds to the standard crystal structure of the  $CoFe_2O_4$  (JCPDS card No. 22-1086). An additional peak is observed for the sample heated for 4 hours which confirms the co-existence of  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>. Secondary phase was disappears for the sample heated for 8 hours. It was observed that increasing the sintering time increases the phase purity of the samples. The sharp and broad Bragg'a lines confirm the formation of well defined crystalline samples.

**Table 1:** Lattice constant (a), X-ray density  $(d_X)$ , bulk density  $(d_B)$ , percentage porosity (P), specific surface area (s), crystallite size (t), for CoFeCrO<sub>4</sub> samples.

Time	ʻa'	<b>'V'</b>	'd <sub>X</sub> '	'd <sub>B</sub> '	<b>'P'</b>	't' (	nm)
Time	(Å)	$(\mathring{A}^3)$	(gm/cc)	(gm/cc)	(%)	XRD	SEM
4h	8.321	576.2	5.320	4.039	31.72	15.13	45
8h	8.330	578.0	5.304	4.101	29.31	28.67	52

Lattice constant 'a' of CoFeCrO<sub>4</sub> was calculated by inserting the values of interplanner spacing's 'd' and miller indices in equation,  $a = d\sqrt{N}$  [15] and the values are given in Table 1. It can be noticed that the lattice constant is affected by the sintering condition and it is increased with the increase in sintering time. Unit cell volume was calculated by using the average values of lattice constant and is given in Table 1 which shows the similar behaviour as of lattice constant. X-ray density of both the samples was calculated b using following relation,

$$d_{x} = \frac{nM}{N \cdot V}$$
 [1]

Where, n is number of molecules per unit cell (8 for cubic), M is molecular weight,  $N_A$  is Avogadro's number and V is unit cell volume. From Table 1, it is observed that X-ray density reduces from 5.320 gm/cc to 5.304 gm/cc as the sintering time increases from 4 hours to 8 hours. It is also observed that the bulk density 'd<sub>B</sub>' calculated by using simple mass-volume relation increases as the sintering time increases. Calculated values of porosity are listed in Table 1, which shows decreasing trend with increasing time. This decrease in porosity is may be due to the decrease in bulk density and increase in crystallite size.

Broad XRD lines indicate the fine crystallites with nano-size. Most intensive peak (311) have been used to determine the crystallite size by using the following relation [16],

$$D_{XRD} = \frac{C\lambda}{B_{1/2}\cos\theta}$$
 [2]

Where C is constant (shape factor = 0.9),  $\lambda$  is wavelength,  $B_{1/2}$  is FWHM of (311) peak and  $\theta$  is Bragg's angle. Estimated values of average crystallite size are given in Table 1. For the sample sintered for 4 hours, the crystallite size was obtained 15.13 nm and for the sample sintered for 8 hours it is 28.67 nm. Surface morphology of the samples was studied by using scanning electron micrographs shown in Fig. 2. The average grain size is obtained in the nanometer range and the results are in good agreement with the crystallite size obtained from the analysis of XRD data. For the samples sintered for 4 hours, average grain size is obtained 45 nm and it slightly increases for the samples sintered for 8 hours and is observed 52 nm. It is also observed that the samples are amorphous in nature and shows porous structure with some agglomerates particles. This agglomeration within the particles may be due to the high reactivity of the prepared samples with heat treatment and may also be come from the magneto-static interaction between the particles [17-19].

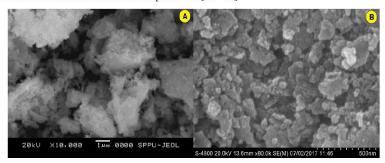


Fig. 2: SEM images of CoCrFeO<sub>4</sub> sintered for (A) 4h and (B) 8h.

Ion jump lengths (hopping lengths) of the samples are calculated by using the following relations [20],

$$L_{A} = \frac{a\sqrt{3}}{4}$$
 [3]

$$L_{\rm B} = \frac{a\sqrt{2}}{4} \tag{4}$$

Table 2 shows the calculated values of ion jump lengths and it can be seen that hopping lengths slightly increases with the increase in sintering temperature. This behaviour of hopping lengths is in accordance with the lattice parameter. The results are can also be explained on the basis of cation distribution over tetrahedral A-site and octahedral B-site.

Table 2: Hopping lengths  $(L_A \text{ and } L_B)$ , absorption bands  $(v_I \text{ and } v_2)$ , saturation magnetization  $(M_S)$ , remnant magnetization  $(M_r)$ , remnant ratio  $(M_r/M_S)$  and coercivity  $(H_C)$  for  $CoFeCrO_4$  samples

Time	'LA'	'L <sub>B</sub> '	Absorpti	on bands	'Ms'	'M <sub>r</sub> '	$(M_r/M_S)$	'H <sub>C</sub> '
Time	(Å)	$(\mathring{\mathbf{A}}^3)$	ν <sub>1</sub> (cm <sup>-1</sup> )	$v_1$ (cm <sup>-1</sup> )	(emu/gm)	(emu/gm)	(IVI <sub>I</sub> /IVIS)	(Oe)
4h	3.603	2.942	617.3	492.5	10.52	6.58	0.625	1471
8h	3.607	2.945	617.8	361.5	15.03	9.04	0.601	1132

Infrared spectra of all the samples recorded at room temperature in the range 300 cm<sup>-1</sup> to 800 cm<sup>-1</sup> are illustrated in Fig. 3 which shows two major absorption bands  $v_1$  and  $v_2$ . The higher frequency band  $v_1$  is observed near 600 cm<sup>-1</sup> while the lower absorption band  $v_2$  is observed near 400 cm<sup>-1</sup>. For the sample sintered for 8 hours the higher frequency band slightly shifted towards lower frequency and the lower frequency band shifted towards lower frequency region. Values of band positions  $v_1$  and  $v_2$  are listed in Table 2. The difference in band positions is related to the stretching vibrations occurred between the metal cations and oxygen atoms due to the interactions at tetrahedral – A and octahedral – B sites [21].

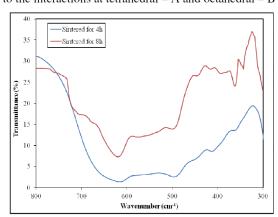


Fig. 3: Infrared spectra of CoCrFeO<sub>4</sub>

Fig. 4 shows the magnetic hysteresis curves for CoFeCrO<sub>4</sub> sintered at 800°C for at two different times 4h and 8h. The maximum field of 15kOe is applied for all the samples. The hysteresis loops exhibits a wide cycle and gives high saturation magnetization which is the indication of formation of hard ferrites. Increasing sintering time for Co-Fe-Cr ferrites increases the loop height and decreases the loop width.

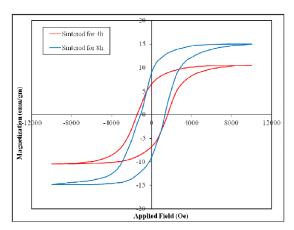


Fig. 4: Hysteresis loops of CoCrFeO<sub>4</sub>

The values of saturation magnetization  $(M_S)$ , coercivity  $(H_C)$  and remnant magnetization  $(M_r)$  obtained from the analysis of hysteresis loops are given in Table 2. Sintering conditions affects on the magnetic behaviour of the samples, and the saturation magnetization slightly increases with the increase in sintering time. Similarly the remnant magnetization varies from 6.58 emu/gm to 9.04 emu/gm.

Coercivity of the magnetic materials is closely related to the magneto-crystalline anisotropy and saturation magnetization by the following relation [22],

$$K = \frac{H_C M_S}{2}$$
 [5]

From equation 5 it can be seen that coercivity is inversely proportional to saturation magnetization and hence it shows opposite behaviour. For the samples sintered for 4 hours, coercivity is observed 1471 Oe and for the samples sintered for 8 hours it reduces to 1132 Oe. The variation in coercivity shows a size dependent behaviour which can be attributed to the combination of surface effect and surface anisotropy [23].

#### **CONCLUSIONS:**

Nanocrystalline powder of CoCrFeO<sub>4</sub> was successfully obtained by sol-gel technique. X-ray diffraction analysis confirms the cubic spinel structure of the samples. The sample sintered for 8 hours gives pure phase of the sample. Lattice parameter increases with the increase in sintering time. Grain size obtained from SEM images is observed in the nanometer range which is in analogues with the results obtained from XRD analysis. Saturation magnetization increases and coercivity decreases with the increase in sintering time.

#### **REFERENCES:**

- [1] L. Neel, Ann. de Phys. 1948; 12:137
- [2] M. V. Choudhari, S. E. Shirsath, A. B. Kadam, R. H. Kadam, S. B. Shelke, D. R. Mane; J. Alloys. Comp. 552 (2013) 443-450.
- [3] S. E. Shirsath, R. H. Kadam, M. L. Mane, A. Ghesami, Y. Yasukawa, S. Liu, A. Morisako; J. Alloys. Comp. 575 (2013) 145-151
- [4] J. H. Shim, S. Lee; *Phys. Rev. B* 2006; 73:064404.
- [5] T. Tatrachuk, M. Myslin, I. Mironyuk, M. Bououdina, A. T. Pedziwiatr, R. Gargula, B. F. Bogacz, P. Kurzydlo; J. Alloys. Comp. 819 (2020) 152945.
- [6] R. H. Kadam, A. R. Biradar, M. L. Mane, S. E. Shirsath; J. App. Phys. 112 (2012) 043902
- [7] O. Suwalka, R. K. Sharma, V. Sebastian, N. Lakshmi, et. al. J. Magn. Magn. Mater. 2007; 313:198-203.
- [8] M. R. Meshram, N. K. Agrawal, B. Sinha, P. S. Misra, J. Magn. Magn. Mater. 2004; 271:207.
- [9] S. Sugimoto, S. Kondo, K. Okayama, D. Book, et. al. *IEEE Trans. Magn.* 1999; 35: 3154.
- [10] Y. Nie, H. He, Z. Zhao, R. Gong, H. Yu, J. Magn. Magn. Mater. 2006; 306: 125.
- [11] T. Kasagi, T. Tsutaoka, K. Hatakeyama, Appl. Phys. Lett. 2006; 88:172502.
- [12] J. L. Xie, M. Han, L. Chen, R. Kuang et. al.; J. Magn. Magn. Mater. 2007; 314:37-42.
- [13] B. H. Liu, J. Ding, Appl. Phys. Lett. 2006; 88:042506.
- [14] I. H. Gul, A. Z. Abbasi, F. Amin, M. Anis-ur-Rehman, A. Maqsood; J. Magn. Magn. Mater. 2007; 311:494-499.
- [15] S. K. Gurav, S. E. Shirsath, R. H. Kadam, S. M. Patange et. al. *Mane; Mater. Res. Bull.*; 2013; 48: 3530-3536.
- [16] S. E. Shirsath, R. H. Kadam, M. L. Mane, A. Ghesami et. al. J. Alloys. Comp. 2013; 575:145-151.
- [17] C.A. Ross, Rev. Mater. Res. 2001; 31: 203.
- [18] S.A. Majetich, M. Sachan, J. Phys. D: Appl. Phys. 2006; 39: R407.
- [19] K. G. Kornev, D. Halverson, G. Korneva, Y. Gogotsi et. al. Appl. Phys. Lett. 2008; 92: 233117.
- [20] B. Gillot, F. Jemmali; *Physica Status. Solidi* (a); 1983; 76:601.

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Date: 28 / 2, /2020

Ref. No:- Exam/10/2019-20/7

To,	Dr. D. P. Chavan.
	S. K. Mahafridyalay Sumpfi

Subject: Appointment of External/Internal Examiner for the Practical Examination to be held in March/April - 2020

Respected Sir,

As per above cited subject, you have been appointed as External / Internal Examiner for the practical examination in the subject Botusy class B.Sc./BA/B.Com. II nd 4 III. Starting from 3/3/20.40.6./3/.20...at our college.

Please, accept the appointment and join at our college examination centre to conduct the practical examination.

> 3.S.S.Arts, Science & Commerce College Makel Tg. Lohara Dist Osmanaha



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# Smilrishna Mahavidyalaya, Cunjui

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Principal - Dr.D.R. Kulkarni

Date: 18 / 08/2021

Ref. No. SKMG 12922 12021

To.

Prof.R.N.Nigade

Dept of Political Science

Shrikrishna Mahavidyalaya, Gunjoti

Subject: Appointment of External Examiner for B.A. III year Project Work Examination March/April 2021 in the subject Political Science at S.K.M.Gunjoti.

With reference to above subject, as per Dr.B.A.M.U. Aurangabad letter Ref. Exam/B.A./pra/2020-21. You are appointed as a Examiner to conduct the University Project Work examination on 17/08/2021 at 10.30 am.

This is for your information for conducing said Project work.

Yours faithfully

Pritifapal Snrikrishna Mahavidyelaya,Gunjot Ta,Omerga Dist,Oamanabad

#### Copy to:

- 1. Principal, Shrikrishna Mahavidyalaya, Gunjoti
- 2. Controller of Examination, Dr.B.A.M.U.Aurangabad



#### DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

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Date: 25.03,2019

Ref. No.: Exam/Co-ord/UO\_JCS/212/MARCH&APRIL 2019/10992-11655

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To, DR. MALAMMA GURUNATH AMBUSE Shrikrishna College, Gunjoti, Dist-Osmanabad

Cell No.: , 8888555121

Subject: - Appointment as Joint Chief Superintendent for Examination to be held in March/April, 2019.

Str / Medero

Website

I am to state that the Hon'ble Vice-Chancellor is pleased to appoint you as Joint Chief Superintendent to supervise the day-to-day arrangement of the conduct of Under Graduate Examinations at Shri. Madhavrao Patil Arts, Science and Commerce College, Murum, Dist-Osmanabad Examination Centre. The Examinations at this Centre are commencing from 27.03.2019, Thus you have to join from 26.10.2019 before the preparation for and commencement of Examination. The observation by the Joint Chief Superintendent at the Examination Center is mandatory till the last day of such examination provided the total strength of the examinee at the center should be at least 40 for any session on a day of the Examination.

Hence you may report to the Examination Centre a day before the commencement of the Examination to observe the arrangements made by the Chief Superintendent for the conduct of Examinations, and report to the University also.

You must be present at the time of downloading of Question Papers at the Examination Centre. Please note that, Question paper will not be downloaded without your presence & ultimately the distribution of question papers to the students would be late. Therefore you should be remain present at the Examination Centre within scheduled time of downloading of question papers and be present at the time of Packing of Answer Books.

A copy of the "Duties of the Joint Chief Superintendent" has already been sent to the Chief

Superintendent/Principal of the Examination Center

The provision under Section 48(4) of the Maharashtra Public Universities Act, 2016 is reproduced as under: "It shall be obligatory on every teacher and on the non-teaching employee of the University, affiliated, conducted colleges, community colleges or recognized institutions to render necessary assistance and service in respect of examinations of the university and evaluation of students as prescribed by statutes. If any teacher or non-teaching employee falls to comply with the order of the university or college or institution, in this respect, it shall be treated as misconduct and the employee shall be liable for disciplinary action. In case of failure on the part of the teacher or non-teaching employee of any affiliated college, conducted college, community college or recognized institution, to comply with the order of the university in this respect, the Vice-Chancellor shall have power to take an appropriate action against them, which may include imposing penalties including suspension of approval to the appointment of a teacher, as may be prescribed by the Statutes."

Remuneration form, TA/DA bill, forms No.41 and specimen pro-forma regarding the number of answer books is made available at the center and the university website as well.

In case, counter signature of must the Principal / Chief Superintendent could not be obtained by you on the bills for some reason or the other, you may get a certificate from the Principal / Chief Superintendent of the Examination Centre cerufying that you have worked as Joint Chief Superintendent at the Examination Centre, in order to enable this office to recommend your bills at an early date. It may please be noted that your remuneration and T.A./D.A. bill will not be recommended for sanction unless (1) absentee statement (2) Statement of Answer Books used at the Examination Centre duly filled the entries completed in all respects (3) Statement showing the date wise and session wise number of candidates appeared for the Examinations and (4) Your detailed report regarding conduct of the Examination and the Centre are submitted along with the said Bill. Your bills should reach this office along with prescribed papers within a week after reliving the said Examinations centre.

Please forward your acceptance of this assignment in the enclosed Form No.4 immediately. (Copy is also available on University Website) If you are not willing to accept the assignment, communicate this office with reason, through Email/Fax given above.

Board of Examinations & Evaluation

Yours faithfully

Copy forwarded with compliments to the Principal / Chief Superintendent, Shri. Madhavrao Patil Arts, Science and Commerce College, Murum, Dist-Osmanabad

· Copy forwarded with compliments to the Principal, Shrikrishna College, Gunjoti,, Dist-Osmanabad

The date of reporting for duty by the Joint Chief Superintendent may please be communicated to this office immediately Email ID: coordination examplement at m and Co-ordination Section Landline No.: 0240-2403169.

# BHARAT SHIKSHAN SANSTHA'S ARTS, SCIENCE & COMMERCE COLLEGE, MAKANI TQ. LOHARA DIST. OSMANABAD.

PRINCIPAL **Dr. H. N. Rede** Ph.-02475-260404



Website: www.bsscm.org Email:principalbssmakani@gmail.com NAAC Accreditation"B"

Ref. No. Exam/10/2018-19/

Date: 2) /2 /2019

Dept. of Botany. S.K.M. Gunjobi

Subject: Appointment of External/Internal Examiner for the Practical Examination to be held in March/ April /2019

Respected Sir,

Please, accept the appointment and join at our college examination centre to conduct the practical examination.

RINCIPAL

RINCIP



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# श्री छत्रपती शिवाजी महाविद्यालय, उमरगा

सा. अवस्था कि जरणानाबाद बाउठ०७ (पताराक्ष्) महता वैक पूर्वपृत्याकन वर्जा की

संपर्क - कोन आणि केंग्स (का.) 02475-252020 (न.) 252025

हों बाबासाहेब अबिवकर परातपादा विद्यापीत, और गबाद सलिए।

Exem/27/20/g - 00/9 / ### / +a"

Date: 02/02/24/7

No.

Br. M. a. Amberde Shritaidhna Callage, Gussjihi To. Omenga Dest Osmanahand

Aurangabad for information.

Sub.: Appointment of Internal/External Examiner.

	n in the subject Bolishing	External	for the B. Sc. III.
	02/03/2019	to	06/05/ 2019 as pos
University P	rogramme.		
			Lynn
			PHINCIPAL
Copy to: 1)	shripe. A. 2 Shinde		Internal/Leternal Examiner,
2)	for information.  Controller of Examiners, Dr. 8a	basahab	Ambedkar Marathwada University



्रालाचाट शिक्षण संस्था नळदुर्ग संचलित,

# यशवंतराव चव्हाण महाविद्यालय

तुळजापूर, जि. उस्मानाबाद

www.ycmtuljapur.org/yccollege@gmail.com

प्राचार्य :- डॉ. कोरेकर एस. एल. (एम.एस्सी.पी.एचडी.)

यचमतु/जा.क./

fa. 21/03/209e

0

To,	1) Dr. M. & Ambuse (External Examiner)
	Strakrishma Maliavin valava Gunisti
	2) Dr. J.N. Rajkonda (Internal Examiner)
	Yeshwantrao Chavan Mahavidyalaya, Tuljapur
	Subject:- Practical Examination of B.Sc I/H/HI-Sem-
	Oct/Nov-Mar/Apr-20-19 in the subject of Botomy

As per instruction of the controller of examinations Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 1 am to communicate herewith the details of your assignment as External / Internal Examiner at the Practical Examination in Oct/New Mar/Apr-20.19......

Examinat ion	Centre	Date Commencement of Examination	Last Date of Exam.	Batch numbers to be examined
B.Sc I/H/H- Sem- II.	Yeshwantrao Chavan Mahavidyalaya, Tuljapur (061)	15/03/2019	16/03/2019	2,3,4,5,8

N.B.:-MARK OF PRACTICAL EXAMINATION AND CD SHOULD BE SENT TO THE CONTROLLER OF EXAMINATION THROUGH PRINCIPAL OF THE CENTRE IMMEDIATELY AFTER CONCLUSION THE PRACTICAL EXAMINATION.

Copy Forwarded:

 Controller of Examination, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.

2) Principal, -----

3) Head, Department of ------, Yeshwantrao Chavan Mahavidyalaya, Tuljapur, Dist-Osmanabad.

Principal A

# श्री छत्रपती शिवाजी महाविद्यालय, उमरगा

हाँ आसामानेन असे	Website: www.scsco.or
	डकर मराठवाडा विद्यापीठ, औरंगाबाद संलिग्नित
Exam/27/2018-2019 / Bot	Date: 9/03/19
To, DX M /H / 1000	
Dr. M. G. Ambose	
Shri Krishna college	, Grunjoti
Tq. omerga Dist osm	nanabad
Sub.: Appointment of Internal,	External Examiner.

You are appointed as an Internal/	External Examiner for conduction practical
Examination in the subject Botany	for the B.SC.I
class from 11 03 2019	to 11/03/2019 as per
University Programme.	
	Jacques 1
	PRINCIPAL

A-S. shinde Internal/External Examiner, Skri/Dr. Copy to: 1) for Information.

Controller of Examiners, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad for Information.

PRINCIPAL

#### DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY,

AURANGABAD -431 004 Maharashtra (India) NAAC – Accredited "A"

Tele.:

Office PBX: (0240) 2403399/400 M.Sc.: - (0240) 2403180 FAX: (0240) 2403199/188

TELEGRAM : BAMUSITY
WEB SITE :www.bamu.net
:http://bamua.digitaluniversity.ac.

डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ,

औरंगाबाद-४३१ ००४ महाराष्ट्र (भारत) नॅक समितीतर्फे "अ" दर्जा प्राप्त

Ref. No.: EXAM/MSC/2019/ 8071-96

Date: 16/11/2019

To,
The Chairman,
Mr. H. S. Bhosale
Dept of Mathematics
Shri Krushna College, Gunjoti

Subject: Practical Programme of M.Sc. (Mathematics CBCS Grading System)
Second Semester Examination OCT/NOV-2019.

Sir,

With reference to the subject cited above, I am enclosing here with the Seat Number of Candidates who is appearing for M.Sc. CBCS Grading System, I to IV SEM Practical Examination held in Oct/Nov - 2019. Kindly Suggest Practical dates accordingly

Director



#### ा नहि कानेन सदर्श प्रधिमीमह विद्यते ॥

Shrikrishna Education Society's.

# Sintindalina Mahantivalkua, Gimbot

श्रीकृष्ण महाविद्यालय, गुंजोटी, ता.उमरणा, जि.उस्मामावाद, ४९३६७६ Tq. Omerga, Dist. Osmanabad (M.S.) 413606 Ph. 02475-250091 Fax. 02475-250091 E-mail : akmg1991@yahoo.co.in, Website : www.akmg.in, Mob. 9421406304



Ref. No. SKMG/3079 1 A / 2021

Date: 03 /12/2021

# **CERTIFICATE**

This is certify that Dr./Mr/Mrs.	M.C.K	hot		of
Shrikrishna Mahavidyalaya Gunjoti di		(	Fitty Four	) Chief
Superintendent/Understudy/Invigilati	ons of Two/Thr	ee hours /Se	ession duration at t	he University
examinations held in Oct./Nov. 2019	Mar./Apr. 20			

Hence Certified

Chief Superintendent

Shrikrishina Minaroli Ventre

Tq.Omerga Dist.Oeman abad

Shrikrishna Mahavidyalaya Gunjoti



#### ।। न हि मानेन सदृशं पविजयित विद्यते ।। Shrikrishna Education Society's



# Sinfinfishira Mahantibyakiya, Gunjoti

श्रीकृष्ण महाविद्यालय, गृंजोटी, ता.उमरगा, जि.उस्मानाबाद, ४१३६७६ Tq Omerge, Dist Osmanabad (M.S.) 413606 😭 /Fax - 02475-260051

E-mail : skmg1991@yahoo.co.in, Website : www.skmg.in @ 9421488384

Principal - Dr.O.R. Kulkarni

Date 24 110 12019

Ref. No. SKMG / D CAS / O 1- 9

प्रति.

त्रा. उगर. एम. किरोड सह। प्राह्मापक कीकुवन महा में मीरी

विषय: पेपर मुल्यांकनाच्या कामाबाबत...

डॉ.बा.आं.म.विद्यापीठ, औरंगाबाद यांचे ऑक्टोबर/नोव्हेंबर २०१९ चे D-CAS केंद्र महाविद्यालयात सुरु होत असुन पेपर मुल्यांकन केंद्रासाठी करण्यात येणाऱ्या कामासाठी अगपली नियुक्ती पासुन या कालावधीतील पेपर मुल्यांकनाचे संबंधित कामकाज पूर्ण होई पर्यंत करण्यात येत आहे. पुर्व परवानगीशिवाय/ अत्यंत महत्वाच्या कारणाशिवाय गैरहजर राहू नये. तसेच आपण महाविद्यालयीन कामकाजा बरोबर पेपर मुल्यांकन केंद्राचे काम जबाबदारीने पार पाडावे.

D-CAS Timing: 09.00 am to 05.00 pm.

D-CAS Center

S.K.M.Gunjoti Dist.Osmanabad





School of Computational Sciences

संगणकशास्त्र संकल

Ref No .: 183

Date: 19/11/19

Branch Name – Mathematics Subject – HCP 1.1, HCP 1.1 (old), HCP 1.2, HCP 2.1 (26/11/2019) HCP 3.1, OEP 3.1 (27/11/2019) Examiner's Name & Address:

- Prof.H.S.Bhosale, (External) Department of Mathematics, Shrikrishna Mahavidyalaya, Gujoti, Omerga.
- 2. Ms. U.M. Muchale, (External) Department of Mathematics, PAH Solapur University, Solapur.
- 3. Mr. Reshimkar A. R. (Internal)Department of Mathematics, D.B.F. Dayanand College of Arts & Science, Solapur.

Subject: Order for Practical Examination Nov/Dec 2019.

Dear Sir/Madam,

As per this office order, you have been appointed as an examiner at

M.Sc Part - I & II Practical Examination to be held in Nov/Dec 2019.

The division of work is as under.

Date of Inspection: - 25/11/2019

Date of Examinations: - 26/11/2019 & 27/11/2019

Time: - 11.00 to 5.00

Exam Centre: - Department of Mathematics, D.B.F. Dayanand College of

Arts & Science Solapur

Director

School of Computational Sciences

Funyashlok Ahilyadevi Holkar Solapur University, Solapur

# DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD - 431 004. Maharashtra (India)

NAAC Re-Accredited 'A'

Office Telephones

70240-2400431 to 2400437

∫0240-2400467 to 2400469

Registrar

(Office) 0240-2400104

(Resi.) 0240-2400203

Fax: ~ Telegram: 0240-2400291/2400491 BAMUSITY

Web Site:

WWW.bamuniversity.org.

E-Mail: Ba

Bamuniversity.org

7000000

ONIVERSITY CAMPLA AURANGABAD-431 994 Maharashira (ISDIA)

Date: 01/10/2019

Ref. No:- Exam/B.A./2019-20/

# RELIEVING LETTER

This is to certify that Shri. Rajaram Nigde of Shrikrushna College, Gunjoti, Dist. Osmanabad attended the University office on 30/09/2019 in regard with the Examination work in the subject of Pol. Sci. XIII, XIV & XV and he / She is relieved today i.e. on 01/10/2019 (After Noon).

SECTION OFFICER

# DR. BABASAHEB AMBEDIKAR MARATHWADA UNIVERSITY, ALRANG ABAD

in al have correspondence please mention the examination & Subject in which you are appropriate as paper setter/examiner along with your approximent No as given below.

Ref. No. 8 x 18 x 2004-20 Date: - 2 x 09 x 2004-20

#### PARKELL AND AL AV

#### THEORY PRACTICAL

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*	Dr. Rajenites Vinte	Sant Kanadas College, Chancawangi, Disa, Jaha	· · · · · · · · · · · · · · · · · · ·
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		Kholeshwar College, Ambajagai, Dist. Beed	N.
		Jawaharlai Vehra College, Parli Vajjnath, Dist. Beed	SE
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जिलाक व जिलाकेला कर्यचाऱ्यांनी विद्यापोठीय परीक्षे संदर्भात आवश्यक ने सहकार्य करण्यासाठी महाराष्ट्र विद्यापीठ कायदा २०१६ कलम ४८(४) अन्तर्य संज्ञ कृत्यां क्रेयसकारक करण्यात आसेने असून त्यामध्ये कसूर केत्यास तो गेरवर्तगृक समजण्यात बेईन आणि असे कर्मचारी / जिलाक जिल्लाभीणस्या कार्यवादीस याद असेन. कृपया संबोधनांनी याची नांट घेऊन विद्यापोठास सहकार्य करावे ही विनंती.

#### Sir Madam.

I am directed to state that the Management Council/Vice-Chancellor is pleased to invite you to act as member of the Board of Chairman/Senior/Paper-Setter/Examiner in the subject of Pol. Sci. XIII, XIV & XV for B.A. VI Sem. (50) Pattern Theory Examination to be held in 2019-20.

- You are therefore requested the favor of an early intimation of your acceptance of this responsibility in the enclosed form which should be received by me on or before ........... for any reason, you are unable to accept this responsibility, you are requested to return the enclosures to the undersigned immediately.
- The Chairman Setter are kindly requested to not accepted the appointment if his/her nearest relative e.g. Son daughter. Wife/Husband, dependent on him are appearing or likely to be appearing for this examination.
- 4. You are requested to intimate your acceptance to the Chairman/Senior as early as possible (Say within 3, 4 days and to be in communication immediately with the Chairman/Senior in regard to the assignment about the Setting of question paper(s) Section(s).
- Dr. Sayyad Rashid has been appointed as Chairman/Senior and his Address is Terna College, Osmanabad.
- The Chairman is requested to supply (04) four sets of question papers in accordance with the syllabus. In three separate sealed covers. The name of the University should not be mentioned in the manuscripts or on the cover containing the manuscripts.
- Please attend the meeting of paper Setters on 30-09-2019 to 01-10-2019 at 11.00 am in the Rajarshi Shahu
   Maharaj Pariksha Bhawan, Dr. B.A.M. University, Aurangabad with fully prepared.
- The Chairman/Setter should also ensure mistakes/ambiguity in the sets of question papers; so as to avoid further complications.
- \*\* The Principal of the concerned college are requested to sanction the duty leave for attending the Paper setting meeting and relive him without any reason.

  Vours Enithfulfo

# DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD In all future correspondence please STRICTLY CONFIDENTIAL

In all future correspondence please mention the examination & Subject in which you are appointed as paper setter/examiner along with your appointment No as given below.

Ref. No. Ex./B.A./2019-20

Date: - 24/09/2019

#### APPOINTMENT No. (

) THEORY / PRACTICAL

п	_	
- 1	0	

1	Dr. Sayyad Rashid	Terna College, Osmanabad	Chairmar
2	Shri, Sayyad Rabbani	Sharadchandra College, Shiradhon, Dist. Osmanabad	SE
3	Dr. Ankush Chavan	M.S.S. College, Tirthpuri, Dist. Jalna	SE
4	Dr. Anand Karde	S.M.D.M. College, Washi, Dist. Osmanabad	SE
5	Shri. Rajaram Nigde	Shrikrushna College, Gunjoti, Dist. Osmanabad	SE
6	Shri, Satish Raste	Adarsh College, Omerga, Dist. Osmanabad	SE
7	Dr. Rajendra More	Sant Ramdas College, Ghansawangi, Dist. Jalua	SE
8	Dr. Mahdeo Mundhe	P.V.P. College, Patoda, Dist. Beed	SE
9	Dr. Tatya Puri	Kholeshwar College, Ambajogai, Dist. Beed	SE
10	Dr. Sachin Dahale	Jawaharlal Nehru College, Parli Vaijnath, Dist. Beed	SE
11	Dr. Ram Tathe	M.V.K. Mahila College, Beed	SE
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टिपः - शिक्षक व शिक्षकेत्तर कर्मचाऱ्यांनी विद्यापीठीय परीक्षे संदर्भात आवश्यक ते सहकार्य करण्यासाठी महाराष्ट्र विद्यापीठ कायवा २०१६ कलम ४८(४) अन्वयं सेवा पुरवणे वंधनकारक करण्यात आलेले असून त्यामध्ये कसूर केल्यास ती गैरवर्तणूक समजण्यात येईल आणि असे कर्मचारी / शिक्षक शिस्तर्भगाच्या कार्यवाहीस पात्र असेल. कृपया संबंधितांनी याची नोंद घेऊन विद्यापीठास सहकार्य करावे ही विनंती.

#### Sir/Madam,

- 1. I am directed to state that the Management Council/Vice-Chancellor is pleased to invite you to act as member of the Board of Chairman/Senior/Paper-Setter/Examiner in the subject of Pol. Sci. XIII, XIV & XV for B.A. VI Sem. (50) Pattern Theory Examination to be held in 2019-20.
- 2. You are therefore requested the favor of an early intimation of your acceptance of this responsibility in the enclosed form which should be received by me on or before ........... for any reason, you are unable to accept this responsibility, you are requested to return the enclosures to the undersigned immediately.
- 3. The Chairman Setter are kindly requested to not accepted the appointment if his/her nearest relative e.g. Son/daughter, Wife/Husband, dependent on him are appearing or likely to be appearing for this examination.
- 4. You are requested to intimate your acceptance to the Chairman/Senior as early as possible (Say within 3, 4 days and to be in communication immediately with the Chairman/Senior in regard to the assignment about the Setting of question paper(s) Section(s).
- 5. Dr. Sayyad Rashid has been appointed as Chairman/Senior and his Address is Terna College, Osmanabad.
- 6. The Chairman is requested to **supply (04) four sets** of question papers in accordance with the syllabus. In three separate sealed covers. The name of the University should not be mentioned in the manuscripts or on the cover containing the manuscripts.
- 7. Please attend the meeting of paper Setters on 30-09-2019 to 01-10-2019 at 11.00 am in the Rajarshi Shahu Maharaj Pariksha Bhawan, Dr. B.A.M. University, Aurangabad with fully prepared.
- 8. The Chairman/Setter should also ensure mistakes/ambiguity in the sets of question papers; so as to avoid further complications.
- \*\* The Principal of the concerned college are requested to sanction the duty leave for attending the Paper setting meeting and relive him without any reason.

77

Yours Faithfu

#### DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD By Hand / Registered Post A/D

#### \*\* STRICTLY CONFIDENTIAL\*\*

Ref. No. Exam./B.SC./Paper Setting/2019/

Date: 23/09/2019

In all future correspondence please mention the examination & Subject in which you are appointed as paper setter/examiner along with your appointment No as given below

To,	Name of Chairman, S & E	Name of the College	Chairman, S & E
No.	0 0 0	Shrikrishna Mahavidyalaya, <b>GUNJOTI</b> , Osmanabad	Chairman
01	Mr. H.S. Bhosale Dr. N.B. Jadhav	Yeshwantrao Chavan Mahavidyalaya, TULJAPUR, Osmanabad	S&E
02	Mr. R.V. Waghmare	Shivaji Arts, Commerce and Science College, KANNAD, A,bad.	S&E
03	Mr. Sarkate S. D.	Milind College of Science, AURANGABAD	S&E
05	Mr. P.V. Kulkarni	Shri. Madhavrao Patil Arts, Science and Commerce College	S&E
06	Mr. S.R. Raut	Mrs. K.S.K. Alis Kaku Arts, Science and Commerce College BEED	S&E
07	Mrs. G.S. Kawale	Vasantrao Naik Mahavidyalaya, AURANGABAD	S&E
08	Dr. Mrs. V.S. Ghodke	Bhagwan Mahavidyalaya <b>ASHTI</b> , Beed.	S&E
09	Mr. V.M. Jamkar	Sant Ramdas Arts Commerce and Science College <b>GHANSAWANGI</b> , Jalna.	S&E

टिपः - शिक्षक व शिक्षकेत्तर कर्मचाऱ्यांनी विद्यापीठीय परीक्षे संदर्भात आवश्यक ते सहकार्य करण्यासाठी महाराष्ट्र सार्वजनिक विद्यापीठ कायदा आधिनियम-२०१६ ४८ (४) (५) (क) अन्वये अन्वये सेवा पुरवणे बंधनकारक करण्यात आलेले असून त्यामध्ये कसूर केल्यास ती गैरवर्तणूक समजण्यात येईल आणि असे कर्मचारी / शिक्षक शिस्तभंगाच्या कार्यवाहीस पात्र असेल. कृपया संबंधितांनी याची नोंद घेऊन विद्यापीठास सहकार्य करावे ही विनंती.

#### Sir/Madam.

1. I am directed to state that the Management Council/Vice-Chancellor is pleased to invite you to act as member of the Board of Chairman/Senior/Paper-Setter/Examiner in the subject of Mathematics at the B.Sc. HIrd Semester Theory Examination to be held in Oct./Nov. - 2019

2. I am to request the favour of an early intimation of your acceptance of this invitation in the enclosed form which should be received by me on or before .....if for any reasons, you are unable to accept this offer,

you are requested to return the enclosures to the undersigned immediately.

3. The Chairman Setter are kindly requested to not accepted the appointment if his/her nearest relative e.g. Sen./daughter, Wife/Husband, dependent, on are him appearing or likely to be appearing for this examination.

4. You are requested to intimate your acceptance to the Chairman/Senior as early as possible (Say within 3, 4 days and to be in communication immediately with the Chairman/Senior in regard to the assignment about the Setting of question paper(s) Section(s).

5. Mr. H.S. Bhosale has been appointed as Chairman/Senior and his Address is. Shrikrishna

Mahavidyalaya, GUNJOTI, Osmanabad.

- 6. The Chairman is requested to supply (3) three sets of question papers in accordance with the syllabus. In three separate sealed covers. The name of the University should not be mentioned in the manuscripts or on the cover containing the manuscripts.
- 7. Please attend the meeting of paper Setters on 23/09/2019 at 11.00 am in the Rajarshi Shahu Maharaj Pariksha Bhawan Dr. B.A.M. University, Aurangabad with fully prepared.

8. The Chairman/Setter should also ensure mistakes/ambiguity in the sets of question papers; so as to avoid further complications.

\*\* The Principal of the concerned college are requested to sanction the duty leave for attending the Paper setting meeting and relive him without any reason. Yours Faithful

# DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD By Hand / Registered Post A/D

#### \*\* STRICTLY CONFIDENTIAL\*\*

Ref. No. Exam./B.SC./Paper Setting/2019/4682-887

Date: 04/09/2019

In all future correspondence please mention the examination & Subject in which you are appointed as paper setter/examiner along with your appointment No as given below

Sr No.	Name of Chairman, S & E	Name of the College	Chairman, S & E
01	Mr Bhosale H. S.	Shrikrishna Mahavidyalaya, GUNJOTI, Osmanabad	Chairman
02	Dr. Smt. Deshpande V. B.	Late Laxmibai Deshmukh Mahila Mahavidyalaya, PARALI (V), Beed.	S&E
03	Mr. Dawkar B. D.	Vivekanand Arts Sardar Dalip Singh Sci College, AURANGABAD	0.00
04	Mr. Joshi A. R.	Lalbahaddur Shastri Senior College PARTUR, Jalna.	S&E
05	Mr. Sangle V. P.	R B Attal Arts Science and G. C. L.	S&E
06	Dr. Nanware J. A.	R. B. Attal Arts, Science and Commerce College GEORAI, Beed.	S&E
07	Dr. Dhakhe P. M.	Shrikrishna Mahavidyalaya, GUNJOTI, Osmanabad	S&E
08	Dr. Phulsagar S. S.	Shri. Saraswati Bhuvan College of Science, AURANGABAD	S&E
09	Mr. Patil A. D.	Ramkrishna Paramhansa Mahavidyalaya, OSMANABAD	S&E
10		Yeshwantrao Chavan Mahavidyalaya, TULJAPUR, Osmanabad	S&E
	Mr. Jadhav K. Y.	Karmaveer Mamasaheb Jagdale Mahavidyalaya, VASHI, Osmanabad	S&E
11	Mr. Sontakke B.R.	Pratishtan Mahavidyalaya, PAITHAN, Aurangabad.	S&E

टिप: - शिक्षक व शिक्षकेत्तर कर्मचाऱ्यांनी विद्यापीठीय परीक्षे संदर्भात आवश्यक ते सहकार्य करण्यासाठी महाराष्ट्र सार्वजनिक विद्यापीठ कायदा आधिनियम-२०१६ ४८ (४) (५) (क) अन्वये सेवा पुरवणे बंधनकारक करण्यात आलेले असून त्यामध्ये कसूर केल्यास ती गैरवर्तणूक समजण्यात येईल आणि असे कर्मचारी / शिक्षक शिस्तभंगाच्या कार्यवाहीस पात्र असेल. कृपया संबंधितांनी याची नोंद घेऊन विद्यापीठास सहकार्य करावे ही विनंती.

- 1. I am directed to state that the Management Council/Vice-Chancellor is pleased to invite you to act as member of the Board of Chairman/Senior/Paper-Setter/Examiner in the subject of Mathematics at the B.Sc. VIth Semester Theory Examination to be held in October/November 2019
- 2. I am to request the favour of an early intimation of your acceptance of this invitation in the enclosed form which should be received by me on or before .....if for any reasons, you are unable to accept this offer, you are requested to return the enclosures to the undersigned immediately.
- 3. The Chairman Setter are kindly requested to not accepted the appointment if his/her nearest relative e.g. Son./daughter, Wife/Husband, dependent, on are him appearing or likely to be appearing for this examination.
- 4. You are requested to intimate your acceptance to the Chairman/Senior as early as possible (Say within 3, 4 days and to be in communication immediately with the Chairman/Senior in regard to the assignment about the Setting of question paper(s) Section(s).
- 5. Mr., Bhosale H. S. has been appointed as Chairman/Senior and his Address is. Shrikrishna Mahavidyalaya, GUNJOTI, Osmanabad
- 6. The Chairman is requested to supply (3) three sets of question papers in accordance with the syllabus. In three separate sealed covers. The name of the University should not be mentioned in the manuscripts or on the cover containing the manuscripts.
- 7. Please attend the meeting of paper Setters on 2 5 /09/2019 at 11.00 am in the Rajarshi Shahu Maharaj Pariksha Bhawan Dr. B.A.M. University, Aurangabad with fully prepared.
- 8. The Chairman/Setter should also ensure mistakes/ambiguity in the sets of question papers; so as to avoid further complications.

\*\* The Principal of the concerned college are requested to sanction the duty leave for attending the Paper setting meeting and relive him without any reason.

Director
Board of Examinations &
Evaluation

Yours Faithfully

Year of Establishment June 1986 अप्राप्यं नामं नेहास्ति संघस्य व्यवसायिनाम्

SHRI BHAVANI SHIKSHAN PRASARAK MANDAL'S

Shikshan Maharshi Guruvarya R. G. Shinde Mahavidyalaya, Bavachi Road, Paranda- Dist. Osmanabad 413502 (MH)



शिक्षणगर्ह्या गुरुवर्य रा. गे. शिंदे गराविद्यालय, बावची रोड परांडा जि. उस्मानाबाद ४१३७०२ (गर्हा.)

(Affiliated to Dr Babasaheb Ambedkar Marathwada University, Aurangabad)
Recognized Under 2(F) & 12(B) by UGC Act 1956 [F-8-310/2007(CPP-I)]

Website: www.rgsmparanda.org Email-ID shindecollege067@rediffmail.com NAAC Reaccredited B grade (CGPA 2.11) ISO 9001:2015 Certified

Dr. Deepa D. Sawale (M. A., M. Ed., Ph.D.)
Principal

Tel. No. (O): 02477-232143 Mob.: 9420782541 / 9860974235

Ref. No.: SGRGMP/

/20

Date: 22/11/2019

To,

Dr. Gulab Rathod,

Department of Botany

Shrikrishna Mahavidyalaya, Gunjoti

Ta. Omerga, Dist. Osmanabad.

Subject: Appointment of Dr. Gulab Rathod, as an external examiner for

the Practical examination Oct/Nov 2019 in the subject of Botany.

Dear Sir,

As per the directives of Controller of Examinations, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad we are conducting MSc. I year Practical examinations in the subject of Botany. The examination at our center is scheduled on 28 November 2019. I like to appoint Dr. Gulab Rathod, Department of Botany of your college as an external examiner to conduct this examination.

Kindly allow him to conduct the examination and cooperate.

Thanking you.

Principal C

esse santa Guruvarya Tilan vidyelaye frar**en**da

Copy to,

1. Controller of Examinations (Dr. B.A.M.U. Aurangabad.)

DR.BABASAHEBAMBEDKAR MARATHWADA UNIVERSITY,

AURANGABAD -431 004 Maharashtra (India) NAAC - Accredited "A"

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:http://bamua.digitaluniversity.ac.



डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद-४३१ ००४ महाराष्ट्र (भारत) नॅक समितीतर्फे "अ" दर्जा प्राप्त

Date: 25/09/2019

Ref. No.: Exam/B.Sc./P.S./2019/

#### RELIEVING LETTER

This is to certify that Shri./Smt.Dr. Bhosale H.S.

College Shrikrishaa Mahavidyalaya, Gunjoli

has attended the university office from 23.109/2019 to 25.109./2019 in connection with the examination B.Sc. Paper Setting work and he/she is relieved on 25./09./2019.

> Section Officer **Examination Section** Dr. Babasaheb Ambedkar Marathwada University Aurangabad



Principal

Dr. G. H. Jadhav

M.Sc., Ph.D.

#### Bharat Shikshan Sanstha's

# SHRIGHHAIRAPATHSHINAULCOLLEGE OMERGA

Tq. - Omerga Dist. - Osmanabad - 413606 (MS), INDIA

ISO certified by TUV Austria

Contact - Phone & Fax: (O) - 02475-252020, (R.) 252026.

e-mail: scsco2001@yahoo.com - website: www.scsco.org.in

(Affiliated to Dr. Babasaheb Ambedkar Marathwada University, Aurangabad)

Ref. No.

परिक्षा/२७/२०१९-२०/272

Date.

22.99.2099

प्रति,

मा. प्राचार्य, श्रीकृष्ण महाविद्यालय, गुंजोटी ता. उमरगा जि. उरमानाबाद.

विषय : कार्यमुक्त करणे बाबत.

महोदय,

विद्यापीठीय परीक्षा ऑक्टो./नोव्हें. २०१९ च्या पदवी व पदव्युत्तर लेखी परिक्षेसाठी आपल्या महाविद्यालयातील प्रा. भोसले एच. एस. हे दि. ०९/१०/२०१९ ते २२/११/२०१९ या कालावधीमध्ये सह केंद्र प्रमुख (Joint Chief Superintendent) म्हणून काम पाहिले आहे.

त्यांना दि. २२.११.२०१९ रोजी द्वितीय सत्रा नंतर कार्यमुक्त करण्यात आले आहे.

आपला विश्वासू

गिनार्ज

#### DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY

AURANGABAD - 431 004. Maharashtra (India)

NAAC Re-Accredited 'A'

Office Telephones

Registrar

70240-2400431 to 2400437 \_0240-2400467 to 2400469 (Office) 0240-2400104

Web Site: E-Mail:

Telegram:

(Resi.) 0240-2400203 0240-2400291/2400491 BAMUSITY WWW.bamuniversity.org.

Bamuniversity.org Ref. No:- Exam/B.A./2019-20/

UNIVERSITY CAMPUS. AURANGABAD-431 004 Maharashtra (INDIA)

Date: 01/10/2019

#### RELIEVING LETTER

This is to certify that Shri. Rajaram Nigde of Shrikrushna College, Gunjoti, Dist. Osmanabad attended the University office on 30/09/2019 in regard with the Examination work in the subject of Pol. Sci. XIII, XIV & XV and he / She is relieved today i.e. on 01/10/2019 (After Noon).

#### Dr. Babasaheb Ambedkar Marathwada University

Aurangabad-431004 Maharashtra (India) NAAC Re-accredited A



# डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ

औरंगाबाद-४३१००४. महाराष्ट्र(भारत) नॅक समितीतर्फे 'अ' दर्जा प्राप्त

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Fax

(0240) 2403199/188

Website

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E-Mail

http://bamua.digitaluniversity.ac

coe@bamu.ac.in

Office of the Director,

Board of Examinations & Evalucation

कार्यालय, संचालक,

परीक्षा व मूल्यमापन मंडळ

Ref. No. Ex/D CAS/UG CAS/OCT\_NOV 2019/3032

Date: 11.10.2019

To,

PROF, RAMESH SURYAJI MADLE SHRIKRISHNA MAHAVIDYALAYA GUNJOTI, GUNJOTI,

TQ. OMERGA, DIST- OSMANABAD

Cell No.: 9527293132

Email: rameshmadle@rediffmail.com

Subject: Assessment of Answer-Books Science Faculty Examination October/November 2019

Sir/Madam,

I am directed by the Hon,ble Vice-Chancellor to invite you to assess the Answer Book of Under Graduate of Faculty Examination held in October/November 2019 in the subject of **ZOOLOGY** 

The assessment work in all the subject will Commence/has commenced from SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI, DIST-OSMANABAD at the D CAS Centre.

May I request you to make it convenient to attend the assessment of Answer Books of your subject on ZOOLOGY Semester I to VI

The remuneration/T.A./D.A./Local conveyance will be paid on spot as per the University rules.

I am further directed by the Hon'ble Vice-Chancellor to invite your attention to the following provision of Maharashtra Public Universities Act, 2016 in respect of Examination work. The Section 48 of Act is reproduced as under:-

"48(4) It shall be obligatory on every teacher and on the non-teaching employee of the University, affiliated, conducted colleges, community colleges or recognized institutions to render necessary assistance and service in respect of examinations of the university and evaluation of students as prescribed by statutes. If any teacher or non-teaching employee fails to comply with the order of the university or college or institution, in this respect, it shall be treated as misconduct and the employee shall be liable for disciplinary action. In case of failure on the part of the teacher or nonteaching employee of any affiliated college, conducted college, community college or recognized institution, to comply with the order of the university in this respect, the Vice-Chancellor shall have power to take an appropriate action against them, which may include imposing penalties including suspension of approval to the appointment of a teacher, as may be prescribed by the Statutes."

Your co-operation in such a great venture is earnestly solicited. Thanking you.

Yours sincerely.

Director

Board of Examinations & Evaluation

Copy Forwarded with Compliments to The Principal, SHRIKRISHNA MAHAVIDYALAYA GUNJOTI. GUNJOTI. TQ. - OMERGA, DIST- OSMANABAD with a request to relieve the concerned faculty member forthwith and exempt him her from his her presence on the last working day.

# Dr. Babasaheb Ambedkar Marathwada University

Aurangabad-431 004. Maharashtra (India)

NAAC Re-accredited A Grade

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# डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ

औरंगाबाद-४३१ ००४. महाराष्ट्र (भारत) नॅक समिती तर्फे अ दर्जा प्राप्त

Director, Board of Examinations & Evaluation कार्यालय, संचालक, परीक्षा व मुल्यमापन मंडळ

Ref. No. Ex/D-CAS/PG-CAS/2019-20 25

Date 25/11/2019



#### RELIEVING LETTER

Badadkan Si Si
This is a certify that Dr. / Mr. / Ms. Badod Kar S. S.
of did the
paper assessment work in the suject — HISTORY at B-A
Examination held in MarApr./OctNov. 20 (9) at D-CAS Centre & PG-CAS Centre,
SHRI CHHATRAPAT! SHIVAJI COLLEGI 13-11:2019
To and he / she is relieved from the said assignment
today after-noon.
He/She has not reported the D-CAS/PG-CAS Centre on the following dates,
He/She has checked the total number of papers and has
given the T.A. / D.A./ Conveyance for Days.





# Dr. Babasaheb Ambedkar Marathwada University

Aurangabad-431004 Maharashtra (India) NAAC Re-accredited A



# डॉ. बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ

औरंगाबाद-४३१००४. महाराष्ट्र(भारत) नंक समितीतर्फं 'अ' दर्जा प्राप्त

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Office of the Director,

Board of Examinations & Evalucation

कार्यालय, संचालक,

परीक्षा व मत्यमापन मंडळ

Date: 11.10.2019

Ref. No. Ex/D CAS/UG CAS/OCT\_NOV 2019/3023

To.

PROF. DIGAMBAR PRABHAKAR CHAVAN SHRIKRISHNA MAHAVIDYALAYA GUNJOTI, GUNJOTI,

TQ. OMERGA, DIST- OSMANABAD

Cell No.: 9527300900

Email: drdp.skmg@gmail.com

Subject: Assessment of Answer-Books Science Faculty Examination October/November 2019

Sir Madam.

I am directed by the Hon,ble Vice-Chancellor to invite you to assess the Answer Book of Under Graduate of Faculty Examination held in October/November 2019 in the subject of BOTANY

The assessment work in all the subject will Commence/has commenced from SHRIKRISHNA MAHAVIDYALAYA, GUNJOTI, DIST-OSMANABAD at the D CAS Centre.

May I request you to make it convenient to attend the assessment of Answer Books of your subject on BOTANY Semester I to VI

The remuneration/T.A./D.A./Local conveyance will be paid on spot as per the University rules.

I am further directed by the Hon'ble Vice-Chancellor to invite your attention to the following provision of Maharashtra Public Universities Act. 2016 in respect of Examination work. The Section 48 of Act is reproduced as

"48(4) It shall be obligatory on every teacher and on the non-teaching employee of the University, affiliated, conducted colleges, community colleges or recognized institutions to render necessary assistance and service in respect of examinations of the university and evaluation of students as prescribed by statutes. If any teacher or non-teaching employee fails to comply with the order of the university or college or institution, in this respect, it shall be treated as misconduct and the employee shall be liable for disciplinary action. In case of failure on the part of the teacher or nonteaching employee of any affiliated college, conducted college, community college or recognized institution, to comply with the order of the university in this respect, the Vice-Chancellor shall have power to take an appropriate action against them, which may include imposing penalties including suspension of approval to the appointment of a teacher, as may be prescribed by the Statutes."

Your co-operation in such a great venture is earnestly solicited. Thanking you

Yours sincerely.

Director

Board of Examinations & Evaluation

Copy Forwarded with Compliments to The Principal, SHRIKRISHNA MAHAVIDYALAYA GUNJOTI. GUNJOH, TO. - OMERGA, DIST- OSMANABAD with a request to relieve the concerned faculty member forthwith and esempt him her from his her presence on the last working day