

Government of Maharashtra

INSTITUTE OF SCIENCE, NAGPUR

Ravindranath Tagore Road, Civil lines, Near Maharajbag, NAGPUR -01

Website: www.iscnagpur.ac.in,

E-mail: info@iscnagpur.ac.in, director @iscnagpur.ac.in

Telephone:0712-2565581,2561148

Fax:0712-2565581

NOTICE

This is to inform all Head of Departments that Second class unit test examination is scheduled from 07.10.2014 to 13.10.2014.

All UG and PG students are here by informed that Second class unit test examination will be held during 07.10.2014 to 13.10.2014.

Internal assessment marks will be given on the basis of attendance and results of all internal examinations conducted by Institute. Submit marksheets with a copy of Question papers to the Exam committee, on or before 18.10.2014, on Email ID suganjadhao@gmail.com

Jow Cinc

Prof.Incharge

Exam committee

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Directorer, Institute of Science

सर्व विभागप्रपुर्वांना सूर्वीत करण्यात येते की प्रीकृतिक संग 2013-14 HEN GAIG 22/08/2013 A 31/08/2013 यरम्भाम द्या चाचनी परीक्षा दोन्याचे उरलेल माह परीक्षीमह प्रत्मेक पेपर हा 20 गुनांचा राहील. प्रत्मेक प्राह्मापकांना परिक्षा आपत्रापत्या तासिने मध्ये द्येत्र आपत्या विधयोत्या गुनपांत्रहा संगाणिकतं उक्रम हार्ड झार्जी सांप्ट का पीमस्य विभागप्रमुखांमापति परिद्या सामितीं के दिमां 5/09/2013 पर्यंत सादर हराव्यात तसेच तपासलेल्या उत्तरपात्रकोसीला प्रश्मपत्रिकेची संभाषिकत प्रत पाहबाबी परिद्या सिमती डडम प्रत्येक विभागात उत्तर पणिक देवन चेतिछ । गुगपत्रिश वेदेवर् म आल्यास त्याची सर्वरेवी जालाव विभाग प्रमुखांवर राहिल याची मोंद हमानी

परिस्तेष्ठरिता विभाग निहाय समन्वयं यातित प्रमाने राहणीलं.

प्रा. प्रे. प्रे. चौद्यरी - भौतिष्ठिशास्त्र विभाग

डॉ, हो, के बावडकर - प्राणीसारम विभाग

इं. डि. पी , गुलवाडे - रयायमशास्त्र -"-

डॉ. जी एछ वाहामारे - गांगत -11-

डॉ. एस एच गणात्रा - पर्यावरणशास्य -11-

डॉ. आर. आर. पार्टील - इलेक्ट्रानिक विभाग

वाई हर (M.P. Sirgh) - सांहिक ही विभाग

डॉ. एस. यु. जोरकर -वनस्पतीशासिवभाग

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NOTICE

This is to inform all Head of Departments that the First term examination is scheduled from 01.10.2013 to 14.10.2013 between 10.30 am to 5.00 pm. Kindly submit question paper in university pattern with sufficient number of Xerox copies as per number of students of respective subject through head of Department, submit to the exam committee before 24.09.2013 upto 5.00 pm.

All Head of Department should conduct the First Term Exam. of M.Sc part I & part II in their respective departments from 07.10.2013 to 10.10.2013 and should be submit Question papers and marksheets to the Exam. committee through coordinators of examination on or before 15.10.2013. All Head of Departments should send staff member including C.H.B. list for Invigilation in Hard copy & on Email ID suganjadhao@gmail.com before 16.09.2013.

Note:--

- 2. the question paper should be typed and only one side of the paper.

 3. Coordinator should collect A4 size paper from the committee and Xerox the question the student from 10 to make the student f committee and Xerox the question paper as per the strength of committee on or before 5.00 pm

In BIVAL

Director, Institute of Science Nagpur

Prof.Incharge



Government of Maharashtra

INSTITUTE OF SCIENCE, NAGPUR

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Fax:0712-2565581

NOTICE

This is to inform all Head of Departments that class unit test examination is scheduled from 19.03.2015 to 31.03.2015.

All UG and PG students are here by informed that class unit test examination will be held during 19.03.2015 to 31.03.2015.

Internal assessment marks will be given on the basis of attendance and results of all internal examinations conducted by Institute. Submit marksheets with a copy of Question papers to the Exam committee , on or before 06.04.2015 , on Email ID suganjadhao@gmail.com

Prof.Incharge

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Institute of ScienceNagpur

GOVERNMENT OF MAHARASHTRA INSTITUTE OF SCIENCE, NAGPUR Ravindranath Tagore Marg, Civil Lines, Nagpur-1

Tel.No. 2565581/2561148	Fax N. 0712-565581
Ref	Date:-08/08/2013

NOTICE

All <u>UG</u> and <u>PG</u> students are here by informed that there test examination will be held during 22/8/2013 to 31/8/2013.

Internal assessment marks will be given on the basis of attendance and results of all internal examination conducted by Institute. Attendance in test exam Compulsory.

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Examination

Director

Institute of Science Nagpur.

2014-15



Government of Maharashtra

INSTITUTE OF SCIENCE, NAGPUR

Ravindranath Tagore Road, Civil lines, Near Maharajbag, NAGPUR -01

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All UG and PG students are here by informed that class unit test examination will be held during 19.03.2015 to 31.03.2015.

Internal assessment marks will be given on the basis of attendance and results of all internal examinations conducted by Institute. Submit marksheets with a copy of Question papers to the Exam committee , on or before 06.04.2015 , on Email ID suganjadhao@gmail.com

Prof.Incharge

Civalation Exam committee.

Sh. Waikan K

Sh. Waikan K

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defautment.

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Institute of ScienceNagpur



Government of Maharashtra

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Fax:0712-2565581

NOTICE

This is to inform all Head of Departments that class unit test examination is scheduled from 25.08.2015 to 5.09.2015.

All UG and PG students are here by informed that class unit test examination will be held during 25.08.2015 to 5.09.2015.

Internal assessment marks will be given on the basis of attendance and results of all internal examinations conducted by Institute. Submit marksheets with a copy of Question papers to the Exam committee, on or before 09.09.2015, on Email ID suganjadhao@gmail.com

Dr. 3. 2 - Tacker

Exam committee

Discourse

Director,

Institute of ScienceNagpur

Dr. Behere for n.a Yname

24/8/15

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GOVERNMENT OF MAHARASHTRA

INSTITUTE OF SCIENCE, NAGPUR

Ravindranath Tagore Marg, Civil Lines, Nagpur-440001

Ref. 5.9.1...

Date: 04/09/2017

NOTICE

All the Heads of Department are hereby informed to conduct the First Unit Test of all subjects/papers of Postgraduate and Undergraduate students till 9th September 2017 and respective mark lists are to be submitted to IQAC and In-Charge, Examination committee before 15th September 2017without fail.

Dr. R.G. Atram
Director
Institute of Science,
Nagpur

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2) Chemistry - Vindlan (Exam In-Charge)	
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4) Statistics-M 419117	
5) Botany Oh	
4) 200 logy 8551n	
7) Env. Sci - Noorchuch	
7) Env. Sci - Southerd 8) Electronics - Just A	

Date: 17-03-2017

DEPARTMENT OF MATHEMATICS Govt. INSTITUTE OF SCIENCE, NAGPUR. 2016- 2017

Internal Examination Time Table

M. Sc. (Semester-II & IV) Unit Test II

Time	Date	Day	Sem	Paper
	02.04.201		II	Algebra-II
11.00 AM	03-04-2017	Mon	IV	Dynamical Systems
	05-04-2017	Wed	II	Real Analysis-II
			IV	Partial Differential Equations
	06-04-2017	Thu	II	Topology-II
to			IV	Advanced Numerical Methods
12.00 Noon	07-04-2017 Fri		II	Differential Geometry
		Fri	IV	Fluid Dynamics-II/ Cosmology
	00 04 004		II	Classical Mechanics
	08-04-2017	Sat	IV	Operation Research-II

Note: All the concerning faculties should prepare their test paper well before as per university pattern.



Notice

All the students of B. Sc. sem-II, sem-IV and sem- VI are hereby informed that their first Unit Test time table is as under;

Class	Paper	Date	Time	Room No.
B.Sc. Sem II	M-3	- 16/02/2017 Thursday	10.00-10.50	42
b.sc. sell II	M-4	18/02/2017 Saturday	10.20-11.10	42
B.Sc. Sem IV	M-7	16/02/2017 Thursday	11.40-12.30	42
Sec (C)	M-8	18/02/2017 Saturday	9.10-10.00	42
B.Sc. Sem III Sec (S)	M-7	17/02/2017 Friday	1.50-2.40	41
	M-8	23/02/2017 Thursday	2.40-3.30	41
B.Sc. Sem VI	M-11	14/02/2017 Tuesday	3.30-4.20	42
Sec (C)	M-12	16/02/2017 Thursday	2.40-3.30	42
B.Sc. Sem VI Sec (S)	M-11	16/02/2017 Thursday	3.30-4.20	42
	M-12	15/02/2017 Wednesday	10.00-10.50	46

Note: Ex-Students of B. Sc. can also appeared for this test as per their respective section with proper application.

विभाग प्रमुख गणित विभान

ामकीय विज्ञान संस्था, मागपूर

Notice

All the students of B. Sc. sem-II, sem-IV and sem- VI are hereby informed that their **Second Unit Test** time table is as under;

Class	Paper	Date	Time	Room No.
B.Sc. Sem II	M-3	14/03/2017 Tuesday	10.50-11.40	42
B.Sc. Selli II	M-4	15/03/2017 Wednesday	11.40-12.30	41
B.Sc. Sem IV	M-7	15/03/2017 Wednesday	11.40-12.30	42
Sec (C)	M-8	14/03/2017 Tuesday	10.00-10.50	42
B.Sc. Sem IV Sec (S)	M-7	15/03/2017 Wednesday	2.40-3.30	41
	M-8	14/03/2017 Tuesday	10.00-10.50	41
B.Sc. Sem VI	M-11	14/03/2017 Tuesday	1.50-2.40	42
Sec(C)	M-12	15/03/2017 Wednesday	1.50-2.40	42
B.Sc. Sem VI Sec (S)	M-11	14/03/2017 Tuesday	3.30-4.20	41
	M-12	15/03/2017 Wednesday	10.00-10.50	46

Note: Ex-Students of B. Sc. can also appeared for this test as per their respective section with proper application.

विभाग हमुख गणित विभाग गसकीय विज्ञान संस्थ, नागपूर

Date: 16-02-2017

DEPARTMENT OF MATHEMATICS Govt. INSTITUTE OF SCIENCE, NAGPUR. 2016- 2017

Internal Examination Time Table

M. Sc. (Semester-II & IV) Unit Test I

Time	Date	Day	Sem	Paper
	25 02 2015		II	Algebra-II
11.00 AM	27-02-2017	Mon	IV	Dynamical Systems
	28-02-2017	Tue	II	Real Analysis-II
			IV	Partial Differential Equations
	01-03-2017	Wed	II	Topology-II
to			IV	Advanced Numerical Methods
12.00 Noon			II	Differential Geometry
	02-03-2017	Thu	IV	Fluid Dynamics-II/ Cosmology
	02 02 2017	т.	II	Classical Mechanics
	03-03-2017 F	Fri	IV	Operation Research-II

Note: All the concerning faculties should prepare their test paper well before as per university pattern.

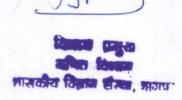
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Notice

All the students of B. Sc. sem-I, sem-III and sem- V are hereby informed that their first Unit Test time table is as under;

Class	Paper	Date	Time	Room No.
B.Sc. Sem I	M-1	11/09/2017 Monday	12:40-01:20	42
	M-2	12/09/2017 Tuesday	10:10-11:00	42
D.Co. Som III	M-5	11/09/2017 Monday	02:30-03:20	41
B.Sc. Sem III	M-6	12/09/2017 Tuesday	02:30-03:20	41
B.Sc. Sem V Sec (C)	M-9	11/09/2017 Monday	03:20-04:30	46
	M-10	12/09/2017 Tuesday	10:10-11:00	46
B.Sc. Sem V Sec (S)	M-9	09/09/2017 Saturday	11:50-12:40	46
	M-10	- 12/09/2017 Wednesday	03:20-04:30	46

Note: Ex-Students of B. Sc. can also appeared for this test as per their respective section with proper application.



Date: 04/10/2017

Department of Mathematics Government Institute of Science, Nagpur

Notice

All the students of B. Sc. sem-I, sem-III and sem- V are hereby informed that their Second Unit Test time Table is as under;

Class	Paper	Date	Time	Room No.
B.Sc. Sem I	M-1	09/10/2017 Monday	12:40-01:20	42
	M-2	10/10/2017 Tuesday	10:10-11:00	42
B.Sc. Sem III	M-5	09/10/2017 Monday	02:30-03:20	41
	M-6	10/10/2017 Tuesday	02:30-03:20	41
B.Sc. Sem V	M-9	09/10/2017 Monday	03:20-04:30	46
Sec (C)	M-10	10/10/2017 Tuesday	10:10-11:00	46
B.Sc. Sem V Sec (S)	M-9	09/10/2017 Monday	11:50-12:40	46
	M-10	11/10/2017 Wednesday	03:20-04:30	46

Note: Ex-Students of B. Sc. can also appeared for this test as per their respective section with proper application.

विभाग प्रमुख गणित विभाग

चमतीय विज्ञार प्राप्ता सामान

Date: 06-09-2017

DEPARTMENT OF MATHEMATICS Govt. INSTITUTE OF SCIENCE, NAGPUR.

2017-2018

Internal Examination Time Table

M. Sc. (Semester-I & III) Unit Test I

Time	Date	Day	Sem	Paper
	00 00 2017	Sat	I	Algebra-I
11.00 AM	09-09-2017		III	Complex Analysis
	11-09-2017	Mon	I	Real Analysis-I
			III	Functional Analysis
	12-09-2017	Tue	I	Topology-I
to			III	Mathematical Methods
12.00 Noon			I	Linear Algebra & Differential Equations
	13-09-2017	Wed	III	Fluid Dynamics-I/ General Relativity
	14-09-2017 The	TO I	I	Integral Equations
		Thu	III	Operation Research-I



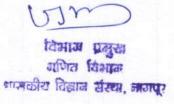
Date: 03-10-2017

DEPARTMENT OF MATHEMATICS Govt. INSTITUTE OF SCIENCE, NAGPUR. 2017- 2018

Internal Examination Time Table

M. Sc. (Semester-I & III) Unit Test II

Time	Date	Day	Sem	Paper
	00 10 2017	Mon	I	Algebra-I
11.00 AM	09-10-2017		III	Complex Analysis
	10-10-2017	Tue	I	Real Analysis-I
			III	Functional Analysis
	11-10-2017	Wed	I	Topology-I
to			III	Mathematical Methods
12.00 Noon			I	Linear Algebra & Differential Equations
	12-10-2017	Thu	III	Fluid Dynamics-I/ General Relativity
	12 10 2017		I	Integral Equations
	13-10-2017	Fri	III	Operation Research-I



Notice

All the students of B. Sc. sem-II, sem-IV and sem- VI are hereby informed that their first Unit Test time table is as under;

Class	Paper	Date	Time	Room No.
B.Sc. Sem II	M-3	09/03/2018 Friday	12:30-01:20	42
	M-4	08/03/2018 Thursday	10:00-10:50	42
B.Sc. Sem IV	M-7	08/03/2018 Thursday	12:30-01:20	46
	M-8	09/03/2018 Friday	01:50-02:40	46
B.Sc. Sem VI Sec (C)	M-11	09/03/2018 Friday	10:00-10:50	46
	M-12	08/03/2018 Thursday	03:30-04:20	46
B.Sc. Sem VI Sec (S)	M-11	09/03/2018 Friday	12:30-01:20	46
	M-12	08/03/2018 Thursday	10:00-10:50	41

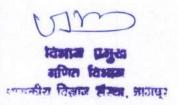
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विभाग प्रमुख गणित विभाग गणकींग विज्ञान संस्था, भागप

Notice

All the students of B. Sc. sem-II, sem-IV and sem- VI are hereby informed that their second Unit Test time table is as under;

Class	Class Paper		Time	Room No.
B.Sc. Sem II	M-3	28/03/2018 Wednesday	11:40-12:30	42
	M-4	27/03/2018 Tuesday	2:40 -01:50	42
B.Sc. Sem IV	M-7	27/03/2018 Tuesday	01:50-02:40	46
	M-8	28/03/2018 Wednesday	11:40-12:30	46
B.Sc. Sem VI Sec (C)	M-11	28/03/2018 Wednesday	10:00-10:50	46
	M-12	27/03/2018 Tuesday	12:50-01:40	46
B.Sc. Sem VI Sec (S)	M-11	27/03/2018 Tuesday	03:30-04:20	46
	M-12	28/03/2018 Wednesday	10:00-10:50	41



Date: 14-02-2018

DEPARTMENT OF MATHEMATICS Govt. INSTITUTE OF SCIENCE, NAGPUR.

2017-2018

Internal Examination Time Table

M. Sc. (Semester-II & IV) Unit Test I

Time	Date	Day	Sem	Paper
11.00 AM to 12.00 Noon	23-02-2018	Fri	II	Algebra-II
			IV	Dynamical Systems
	24-02-2018	Sat	II	Real Analysis-II
			IV	Partial Differential Equations
	26-02-2018	Mon	II	Topology-II
			IV	Advanced Numerical Methods
	27-02-2018	Tue	II	Differential Geometry
			IV	Fluid Dynamics-II/ Cosmology
	28-02-2018	Wed	II	Classical Mechanics
			IV	Operation Research-II



Date: 31-03-2018

DEPARTMENT OF MATHEMATICS Govt. INSTITUTE OF SCIENCE, NAGPUR. 2017- 2018

Internal Examination Time Table

M. Sc. (Semester-II & IV) Unit Test-II

Time	Date	Day	Sem	Paper
11.00 PM to 12.00 PM	04-04-2018		II	Algebra-II (Unit-III)
		Wed	IV	Dynamical Systems (Unit-II)
			II	Real Analysis-II (Unit-III)
	05-04-2018	Thu	IV	Partial Differential Equations (Unit-II)
	06-04-2018		II	Topology-II (Unit-II)
		Fri	IV	Advanced Numerical Methods (Unit-II)
			II	Differential Geometry (Unit-II)
	07-04-2018	Sat	IV	Fluid Dynamics-II/ Cosmology (Unit-II)
	09-04-2018	Mon	II	Classical Mechanics (Unit-II)
			IV	Operation Research-II (Unit-II)



Name of Teacher: Sarveshwar S.Kasarla,
Assistant Professor of Physics, Govt.Institute of Science Nagpur
Academic Session:2017-18

Course: B.Sc. Semester-VI

Subject:PHY-I

Test: (2 marks each)9.2.18

1.Draw the well labeled diagram of Michelson Morley experiment.

2. Write the postulates of Special Theory of relativity.

3. Write Lorentz Transformation equations and inverse Lorentz Transformation equations.

4.If a mass is moving with the speed of 0.8c. Find the ratio of rest mass to relative mass.

5. Rod of length 1 m moves with speed of 0.6c find the change in length.

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Name of Teacher: Sarveshwar S.Kasarla,
Assistant Professor of Physics, Govt.Institute of Science Nagpur
Academic Session:2017-18

Course: B.Sc. Semester-VI

Subject:PHY-I

Test: (2 marks each)21.2.18

- 1. Explain Inertial and Non-inertial frames of reference.
- 2. Write the postulates of Special Theory of relativity.
- 3. Prove that E = $\sqrt{p^2c^2 + m_0^2}c^4$
- 4.If relative mass is double that of rest mass find the speed.
- 5. Prove that formula of Length contraction.

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Name of Teacher: Sarveshwar S.Kasarla, Assistant Professor of Physics, Govt.Institute of Science Nagpur Academic Session:2017-18

Course:M.Sc.(Physics)Semester-II

Subject:Core -7:PHY-III(Classical Mechanics)

Test: 3.2.18

- 1. Define Lagrangian for a particle moving on the surface of earth. Hence find the equation of motion.
- 2. A bead slide on the wire in the shape of a cycloid described by equation:

 $x = a (\theta - \sin \theta)$, $y = a (1 + \cos \theta)$. Find L of equation of motion. (consider friction to be zero)

- 3. Define generalized coordinates and generalized velocity.
- 4. State and prove D' Alembert's principle.
- 5. Derive Lagranges equation of motion from D' Alembert's principle .
- 6. State and prove Hamilton's principle.
- 7. Derive Lagranges equation of motion from Hamilton's principle.

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Name of Teacher: Sarveshwar S.Kasarla, Assistant Professor of Physics, Govt.Institute of Science Nagpur Academic Session:2017-18

Academic Session:2017-18
Course:B.Sc.Semester-VI Subject:PHY-I Test: (2 marks each) 16.3.18 1. In the reaction ${}^{2}H_{1} + {}^{3}H_{1}> {}^{4}He_{2} + {}^{1}n_{0}$. If a,b,c are BE of ${}^{2}H_{1}$, ${}^{3}H_{1}$, ${}^{4}He_{2}$ resp. the Q value of reaction is
a) a+b+c b) a+b-c c) a-(b+c) d) a-b+c
2. The average BE/nucleon is approximately(MeV)
 a) 9.1 b)8 c) 81 d) 92 3. The expression for packing fraction is a) A/M-A b) M-A/A c) A/M+A d) M+A/A 4. The atomic reactor is based on the principle of a) Nuclear fission b) Nuclear fusion c) Controlled chain reaction d) uncontrolled chain reaction 5. The nucleon is the name used for a) both p & n b) only n c) only p d) none of the given 6. If N is the no. of neutrons in the stable nucleiof atomic no. Z then— a) N ≤ Z b) N = Z c) N > Z d) N ≥ Z
Name of Teacher: Sarveshwar S.Kasarla, Assistant Professor of Physics, Govt.Institute of Science Nagpur Academic Session:2017-18 Course:B.Sc.Semester-VI Subject:PHY-I
Test: (2 marks each) 13.3.18
1. In the reaction 222 A $_{86}$ > 210 A $_{84}$,how many α , β emissions takes place?
a) $6\alpha,3\beta$ b) $3\alpha,4\beta$ c) $4\alpha,3\beta$ d) $3\alpha,6\beta$
2.Net Nuclear force between particle is F1 If both are n and F2 if both are p .What force F3 if one is p and other is n?
a) F1=F2>F3 b) F1=F2=F3 c) F1>F2>F3 d) F1 <f2<f3< td=""></f2<f3<>
a) F1=F2>F3 b) F1=F2=F3 c) F1>F2>F3 d) F1 <f2<f3 3.If α,β,γ are arranged in ascending order of ranges in air .The order will be</f2<f3

5. Draw the diagram nuclear reactor.