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I/II Semester Diploma Examination, April/May-2016

APPLIED SCIENCE

Time : 3 Hours]

[Max. Marks : 100

- Note :**
- (i) Answer any 10 questions from Section – A, each carry 2 marks.
 - (ii) Answer any 10 questions from Section – B, each carry 5 marks.
 - (iii) Answer any 5 questions from Section – C, each carry 6 marks.

SECTION - A

1. Define unit of a Physical quantity.
2. Define pitch of a Screw.
3. State Lami's theorem.
4. Define couple.
5. Define compressibility. Write its SI unit.
6. Mention the factors affecting surface tension.
7. Write the effect of temperature on viscosity of gas.
8. Define conduction of heat.
9. State Zeroth law of thermodynamics.
10. Define periodic motion with example.
11. Write any two applications of beats.
12. Write the principle of optical fiber.
13. Write two advantages of Communication satellite.
14. Define electrolysis.
15. Define polymers.

SECTION - B

1. Write the difference between scalars and vectors. Give two examples for each.
2. Draw a net diagram of Vernier Callipers and label its parts.

1 of 2

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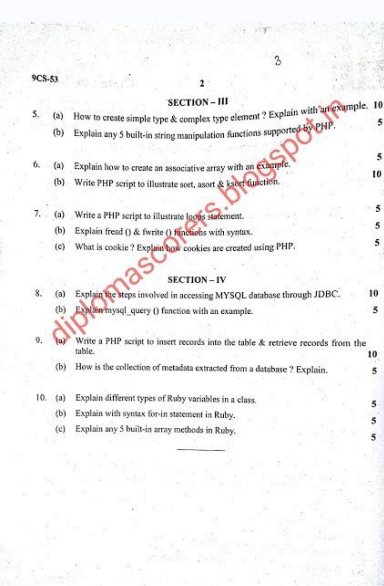
The President, Professors, and Board of Trustees
of the
University of North Carolina
To all to whom these presents shall come
Greeting
Be it known that

Coleman DeVane Ross

having completed the studies and fulfilled the requirements for the degree of
Bachelor of Science in Business Administration
has accordingly been admitted to that degree, with all the rights, honors,
and privileges thereunto appertaining.

In witness whereof the Seal of the University and the signatures
of duly authorized officers are affixed to this diploma.
Given at Chapel Hill in the State of North Carolina, this seventh day
of June in the year of Our Lord nineteen hundred and sixty-five
and of this University the one hundred and seventy-first.

Wm. H. Rouse
Richard
William H. Rouse
Marion D. Lee



As per MSBTE 'I' Scheme Revised syllabus w.e.f. 2017-18

Basic Science

(BSC-22102)

For

First Year Diploma Course in Engineering

(Common for all branches)

SEMESTER – I

Prof. P. D. Korde

M.Sc., M.Phil.(Physics)
Savitribai Phule Pune University,
Lecturer, Science Department,
Ekala vya Polytechnic,Pune

Prof. A. R. Maner

M. Tech. (Electronics)
(I.I.T. New Delhi),
Principal, Satara Polytechnic Satara.

Prof. M. D. Thorat

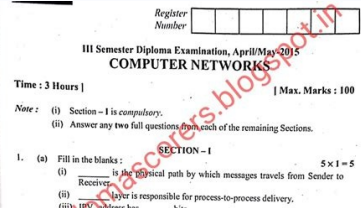
M.Sc.(Inorganic Chemistry) B.Ed.
Lecturer, Science Department,
K. K. Wagh Polytechnic, Nashik

Prof. Mohd. Junaid

M.Sc.(Organic Chemistry)
Lecturer,
Sandip Polytechnic, Nashik



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UNIT V.MODERN PHYSICS (07hrs) Electromagnetic waves: Definition, generation of electromagnetic waves and their properties Electromagnetic spectrum: Definition, classification and its applications. Laser: Principle and list of Laser types, Laser properties, applications. Nanotechnology: Definition of nanotechnology, advantages and disadvantages of nanotechnology. Advance Communication Systems: Basic elements of block diagram communication systems, List of terms commonly used in electronic communication systems. Satellite communication: Introduction, advantages and disadvantages,Optical fiber: principle and applications. UNIT VI: CHI INDUSTRIALE EMISTRY (10 hours) Electrolysis: Definition of electrolyte, types of electrolytes with examples, definition of electrolysis. Ltd. Establish Bernoullio's theorem. Define capillarity? Purpose of the manufacture of alloys, composition and uses of alloys. Polymers: Definition and classification of polymers, polymerization methods and applications. Composite materials: Definition, types, advantages and disadvantages of composite materials. Solutions: Definition of solute, solvent, solutions. Write three pH applications.Define composite materials. List his properties. Explain the mechanism of electrolysis of HCL. Write the basic concepts of batteries. It is lightweight, easy to use, without images, without pdf platform to facilitate students' lives. Course Outcomes: Upon completion of the course the student will be able to: Determine the size of objects using measurement tools and analyze vectors in mechanics. Create knowledge of the properties of matter applicable to engineering. Apply the concepts of thermal properties of matter and gas laws related to engineering. Analyze the different concepts of waves and vibrations in the field of engineering. Analyze recent physics trends related to Reference books: Engineering chemistry for the diploma of Ranjan Kumar Mahapatra (Phi Learning Pvt. Mention three applications of the batteries. Distinguish between minerals and minerals. Electrolysis mechanism. Elasticity modules and its types, derivation of an expression For the Young module of a material. Silence. Dhoop Singh Senior Lecturer, in English PhD. PDF programs can be downloaded from the official website.Dinamica, heat, sound, matter, recent trends in physics, basic chemistry in education Secondary.Unit I: Mechanics (08 HRS) For the complete program and the results, the time of the lessons and much more Download the IPStudy Syllabus app, New Delhi) Website: www.rsc.org/education/teachers/resources/ Inspirational/..4. 3.1.pdfwww.nanogloss.com/nanotechnology/advantages and disadvantageswww.freebookcentre.net/physics/ introductory-physics-books.htmlre-books: Introduction to physics A «II, Robert P Johnson.noti of physics lesson University of Rochester.librio Text from Physics Poynting J.H Thomson Sir J.J.Model Question Paper: Note: Answer all 10 questions from section A, each gate 02marks.II. Dr. Himanginee Kaushik Lecturer in English PhD. IL 7. Ms Sarita Teacher of Physics MSC 3. The lady ... Monika Mehta Mathematics teacher MSC 5. 2. United III: heat and property of the phase (07hrs) Heat & temperature concept: Heat definitions e Temperature with units yes, definition of specific heat of a substance with units yes, equation for the specific heat of a substance (no derivation). of thermal conductivity (K) and its unity yes List of viscosity applications. Surface tension: definition of the surface tension and its S.I unit. 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Sr. No. Name of Faculty Designation Qualification 1. Explain isothermal & adiabatic process.State the three gas laws.(BoyleçAAAAs law, CharleçAAAAs law & Gay-Lussac law)Explain mechanical &non- mechanical waves with examples.Distinguish between longitudinal & transverse waves.Write any three advantages and two disadvantages of F.M.Write the principle of laser. Derivation of expression for pressure at a point inside the liquid at rest, simple problems.Energy of liquid in motion: Kinetic, Potential energies and Pressure energy in moving liquid. Its a light weight, easy to use, no images, no pdfs platform to make students life easier.UNIT-2: PROPERTIES OF SOLIDS AND LIQUIDS: (10 Hrs)Properties of solids: Definitions of deforming force, elasticity and plasticity, examples for elasticity and plasticity, definition of stress and its types with examples and its S.I unit, definition of strain and its types with examples, elastic limit, HookeçAAAAs law, stress çAAA strain graph with explanation. Answer any 05 questions from section C, each carry 06 marks.PART-ADefine Unit.Differentiate scalars and vectors.Define Resultant of forces.Define moment of couple.Define plasticity.Define compressibility.Define viscosity of liquid.Define specific heat of substance.Define thermodynamics.Define time period.Define beats.Define Electro-magnetic waves.Define Nano-Technology.Define electrolyte.Define composite materials.PART-BDraw a neat diagram of Vernier calipers and label its parts.Write the condition for equilibrium of coplanar parallel forces with an example.Explain stress-strain graph.Define K.E of liquid in motion. (given y=1.41 for air).Write the basic elements of communication system with block diagram.Explain any two methods of polymerization.For detail syllabus of all other subjects of BE Information Sci. C15 scheme do visit Information Sci 1st Sem syllabus for C15 fo sdohtem evitneverp eht tsiI .noisorroc fo yroeht lacimehcoortcele .noisorroc rof snoittdnec yrassacen ,noitinifeD .noisorroC.nialpxe dna etats :sisylortceleE fo swal yadaraF .3-mgk92.1 si erusserp yrucrem fo mc67 & C00 ta ria fo ytisned eht fi ,erusserp yrucrem fo mc57 & C052 ta ria ni dnuos fo ytlcolev eht etalucLaC.dohtem noisrapmoc yb retemonos gnisu krof gniunut nevig eht fo yceneuqerf nwonknu eht dnif ot tnemirepxe na ehircseD.gnirts dehcerts fo snoitarbiv esrevehnaart fo yceneuqerf latnemadnuf rof noisserpxe na evireD.PTN ta emulov etalucLaC .ppA suballyS ydutSi daolnwod slp erom dna elbatemit ssalc ,stluser dna suballys etelpmoc rof)srH01(NOITOM EVAW :VI TINU.ssecorp citabaida ,ssecorp lamrehtosi :ssecorp scimanydomreht fo sepyt .)tnemetats ylnO(waldnI dna waltsI ,wal htoreZ :scimanyd omreht fo swal ,scimanydomreht fo noitinifeD .scimanydomrehT.wal sAAAæelrahC dna wal sAAAæelyoB no smelborp elpmis ,noitavired onoitauqe sAAAæreyaM(meht neewteb noitaler, vC dna pC fo noitinified ,JTRn=VP(meht neewteb noitaler eht evired ,wal sAAAæcassuL-yaG ,wal sAAAæelrahC ,wal sAAAæelyoB fo tnemetatS :swal saG.K no smelborp elpmis ,noitaidar dna noitcevnoc ,noitcudnoc fo snoitacilppA .scimanydomreht fo wal ts1 etatS.noisnet ecafrus fo noitacilppa eerht yna etirW .IlikS noitacinummoC/hsilgnE dna scitamehtaM ,yrtsimehC .scisyhP fo ytlucaf eht evah tnemtraped ecneicS seilppA ehtT .ppA suballyS ydutSi daolnwod slp erom dna elbatemit ssalc ,stluser dna suballys etelpmoc rof:yrivileD esruoC.sdleif tnereffid ni Hp fo snoitacilppa ,elacs Hp ,noitulos fo Hp fo noitinified ,Hp fo tpecnoc dna noitartnecnoc noi negordyH .eulaV Hp.noitulos fo noitartnecnoc no smelborp elpmis ,snoitulos lalom dna ralom ,lamron :snoitulos fo noitartnecnoc ,snoitulos detarutasn dna detarutaS .iii.skram 50 yrrac hcae B noitces morf snoitseug 01 yna rewsN .erom dna elbatemit ssalc ,stluser dna suballys tsetal rof ppA suballyS ydutSi daolnwod ot tegrof Basic concept, classification and applications of batteries.Fuel cells: Definition, including types and benefits.Metallurgy: Definitions of minerals, ore, flux, slag, alloys. Definition of compressibility and safety factor. security.

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