

Unified Syllabus

Class - B.Sc. 1st Year

Subject - Industrial Chemistry

Paper - First

Theory : 42^{1/2}

UNIT-1 Petroleum : Introduction, Occurrence, composition of petroleum, Origin, theory of petroleum, classification of petroleum, refining of petroleum.

Fraction distillation of crude oil : Cracking, reforming, Hydroforming, Isomerisation, Purification of petroleum, Flash Point, Knocking, Octane number.

UNIT-2 Coal : Types, Composition, structure, classification and properties of coal, Distillation of coal, Low and high temperature carbonation of coal, calorific value of coal, Analysis of Coal.

UNIT-3 Catalysis : Introduction, Types : Homogeneous and Heterogeneous catalysis, Basic Principles of catalysis, Mechanism of catalysis, Factor affecting the catalysis reaction, Industrial uses of catalysis reaction. **Surface chemistry and interfacial phenomenon :** adsorption isotherm, sols, Gels, Emulsions.

UNIT-4 Inorganic materials of industrial importance, their availability, forms structure and modifications, Alumina, Silica, Silicates, Clays, Mica, Carbon, Zeolites.

Drying : Introduction, Equipments – tray dryer, rotary dryer, drum dryer, spray dryer.

UNIT-5 Distillation : Introduction, Types of distillation : Simple distillation, Fractional distillation, Steam distillation, Distillation under reduced pressure, Batch and continuous distillation, Plate columns and packed columns distillation.

Evaporators : Introduction, Equipment : Short tube evaporator, forced circulation evaporators, climbing film evaporators, wiped film evaporators.

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Unified Syllabus

Class - B.Sc. 1st Year
Subject - Industrial Chemistry
Paper - Second Theory : 42^{1/2}

UNIT-1 Basic Metallurgical Operations : Pulverization, Calcinations, roasting, refining, Physicochemical Principle of extraction of Iron, Copper, Aluminium, Magnesium, Zinc and Chromium.

UNIT-2 Enzyme Catalyzed reaction, rate model, industrially important reactions. Dimensions and Units, Basic Chemical Calculations : Atomic weight, molecular weight, equivalent weight, Mole composition of (i) liquid mixture and (ii) gaseous mixtures.

UNIT-3 Material balance without chemical reaction, Flow diagram for material balance, simple material balance with or without recycle of by-pass for chemical engineering operations such as distillation, absorption, crystallization, evaporation, extraction etc.

UNIT-4 Utilities in Chemical industry; Fuel : Types of fuel, Advantages and disadvantages, combustion of fuels, calorific value, specification for fuel oils. Boilers : Types of boilers and their functioning, Heat transfer, heat exchangers shell and tube, finned tube heat exchangers plate, heat exchangers refrigeration cycles.

UNIT-5 Water : Specification for Industrial use, various water treatments. Steam : generation and use, Air: specification for industrial use, processing of air. Fluid flow : Fans, blowers, compressors, vacuum pumps ejector, Pump : Reciprocating pumps, gear pump, centrifugal pumps.

BOOKS :-
1:- Industrial chemistry: - B.K.Sharma.
2:- Environmental chemistry: - B.K.Sharma.
3:- Environmental chemistry: - A.K.Day

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Unified Syllabus .

Class - B.Sc. 1st Year
Subject - Industrial Chemistry

Max. Marks : 50

PRACTICAL

- 1- Determination of M.P. and elevation in B.P. of solids and liquids.
- 2- Analysis of water : Alkalinity, Hardness, pH, Chloride, Sulphate.
- 3- Calibration of thermometers.
- 4- Preparation of standard solution : Primary and secondary standards.
- 5- Determination of Flash Point.
- 6- Chromatography : Paper, thin layer.
- 7- Determination of physical constants : Density, Refractive index, surface tension, viscosity.
- 8- Soil Analysis : Determination of pH , Mg , Silica, Alkalinity.

Division of marks for practical

Two practical	30
Viva	10
Seasonal	10
Total	50 Marks

Unified Syllabus

Class - B.Sc. IIrd Year
Subject - Industrial Chemistry
Paper - First

Max. Marks : 42^{1/2}

Unit: - 1:- Cement: Types of cement, composition, manufacturing processes, setting of cement. **Ceramic:** Introduction, types, manufacturing processes, applications, refractory materials.
Polymeric materials: Introduction, Mechanism of polymerisation, plastic, Preparation, Properties and uses of polythene, PVC, Bakelite, Nylon 66, industrial applications.

Unit:-2:- Glass: Types, composition, manufacturing- physical and chemical properties, applications. **Corrosion:** Various types of corrosion relevant to chemical industry, mechanism, protection against corrosion.

Unit:-3:- Nitration: Introduction, nitrating agents, kinetics and mechanism of nitration processes such as nitration of :-

- 1:- Paraffinic hydrocarbon.
- 2:- Benzene to nitrobenzene and m-dinitrobenzene.
- 3:- Acetanilide.

Halogenation:- Introduction, kinetics of halogenation reactions, reagents for halogenation reactions, halogenation of sulphatic and aromatic hydrocarbons (Nuclear & side chain halogenation)
Halogenation of aliphatic hydrocarbons with special reference to energy profile diagram. Halogenations of aromatic hydrocarbons- types of reagents & their kinetics. Commercial manufacturing of dichlorobenzene.

Unit:-4 Sulphonation: Introduction .sulphonating agents sulphonation of aliphatic and aromatic hydrocarbons, Mechanism of sulphonation reaction, reversibility of sulphonation concept of reversibility of sulphonation.

Unit:-5 Industrial Pollution : Introduction to industrial pollution with reference to water and air-Statutory limits of air and water pollutants.

Books :-

- 1:- Unit process of organic synthesis vol. 1&2 P.H.Gs
- 2:- Industrial chemistry: - B.K.Sharma.
- 3:- Environmental chemistry: - B.K.Sharma.
- 4:- Environmental chemistry: - A.K.Day
- 5:- Unit operations vol.1&2:- K.A.Gauhane
- 6:- Engineering Chemistry :- P.C. Jain & Monika Jain

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Unified Syllabus

Class - B.Sc. IInd Year
Subject - Industrial Chemistry
Paper - Second

Max. Marks : 42^{1/2}

Unit -I **Concept of measurement and accuracy** principle, construction and working of instruments for the measurement of following parameters.

1. Temperature:- Glass thermometer, vapor filled spring thermometer, radiation pyrometer.
2. Pressure: - Manometer, Barometer, Pressure gauge, Pirani gauges, Diaphragm type.
3. Liquid Level:- Float type liquid level gauge.
4. Density.
5. Viscosity.

Unit -II **Oxidation**— Introduction—Types of oxidising agents, kinetics and mechanism of oxidation, vapour phase oxidation, commercial manufacturing of acetic acid, benzoic acid, maleic anhydride, phthalic anhydride, acrolein and acetaldehyde.

Reduction—Introduction, methods of reduction, commercial manufacturing of aniline, nitroaniline, p-amino phenol.

Unit-III **Hydrogenation**:-Introduction- kinetics and thermodynamics of hydrogenation, reaction catalysis of hydrogenation reaction, hydrogenation of vegetable oil, manufacturing of methanol from carbon monoxide and hydrogen.

Esterification:-Introduction, esterification by organic acids, commercial manufacturing of ethyl acetate, diacetyl phthalate, vinyl acetate and cellulose acetate.

Unit-IV **Solid waste management**, industrial safety, removal of solid contaminants from waste water by coagulation, incineration, fuel palatization, soil conditioning and green house effect, ozone depliction, carbon credits,

Unit-V: Principle and equipments of aerobic, anaerobic treatment such as adsorption, filtration, sedimentation, bag filters, electrostatic precipitators mist eliminators wet scrubbers.

Books: - 1- Unit process of organic synthesis vol. 1&2 P H Gs

2- Industrial chemistry - B.K.Sharma

3- Environmental chemistry - B.K.Sharma

4- Environmental chemistry - A.K.Day

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Unified Syllabus

Class - B.Sc. IInd. Year
Subject - Industrial Chemistry
Paper - Practical

Max. Marks : 50

PRACTICAL

- 1- Unit process :- Preparations using nitration, sulphonation, halogenation.
- 2- Instrumental Methods of Analysis related to :- colorimetry, potentiometry, conductivity.
- 3- Water Analysis :- Sampling, physical parameters such as – pH conductivity, turbidity, T.D.S, Hardness, COD, BOD.
- 4- Flash point and Ignition points of Oils & Lubricants.

Project Report :- Students are required to visit places of industrial interest.

Division of marks for practical

Two practical	30
Viva	10
Seasonal	10
Total	50 Marks

Unified Syllabus

Class - B.Sc. IIIrd Year
Subject - Industrial Chemistry
Paper - First

Max. Marks : 42^{1/2}

Unit - I Factors involved in project cost estimation Methods employed for the estimation of capital investment. Capital formation, Elements of cost accounting., Interst and investment costs. Time value of money-equivalence. Depreciation, methods of determinig depreciation, Taxes, Some aspect of marketing.

Unit - II Pricing Policy : Profitability criteria, Economics of selecting alternatives. Variation of cost with capacity, Break even point, optimum batch sizes, production scheduling etc.

Unit - III Concept of scientific management in industry, Functions of mangement decision making and planning organizing, location of industry, directingand control inventory control, management of human resources selectionincentives. Concept of welfare and safety in industries.

Unit - IV Modern Instrumental methods of analysis. Chromatography, paper chromatography, TLC, GLC, HPLC. UV-visible spectroscopy, Beer lamberts law, IR Spectroscopy, roatetional vibrational and transitional spectra.

Unit - V Sampling procedures, sampling of bulk materials, Techniques of sampling solids liquids and gases, Collecting and processing of data. NMR-Spectroscopy, Atomic Adsorption, Flame Photometry. Neutron diffraction, X-ray fluorecence.

Books : 1- Instrumental Methods of Chemical analysis : B.K. Sharma

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Unified Syllabus

Class - B.Sc. IIIrd. Year
Subject - Industrial Chemistry
Paper - Second

Theory : 42^{1/2}

- UNIT- I** Physical and Chemical processes used for the recovery of important compounds : - Adsorption, Evaporation, Distillation, Centrifugation, Coagulation, Osmosis, reverse osmosis and electro dialysis.
- UNIT- II** Need for waste recycles : - limitation of raw material resources, waste elimination, conversion of waste -into useful products. Domestic and agro waste, feasibility of recycle, separation of waste- solid, liquid and gases.
- UNIT- III** Synthetic Fibers : Introduction, important requirements of a fiber, difference between natural fibers and artificial or synthetic fibers, properties of synthetic fibers, method of spinning, application of synthetic fibers, rayon.
- UNIT-IV** Characterization of waste management and recovery of important compound from the waste of the following industries. Slaughter houses, rubber, sugar, heavy chemicals, fermentation, thermal power station, electroplating and paper.
- UNIT-V** Recovery of compound from oil industries, dyestuff industries, fertilizers industries, textile industries. Soap and plant.
Small Scale Units : Agarbaties, wax candelas, shoe polish, chalk crayons, plaster of paris and safety matches.

- Books: - 1:- Unit process of organic synthesis vol. 1&2 P.H.Gs
2:- Industrial chemistry: - B.K.Sharma.
3:- Environmental chemistry: - B.K.Sharma.
4:- Environmental chemistry: - A.K.Day
5:-Unit operations vol.1&2:- : - K.A.Gauhane

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Department of Higher Education Madhyapradesh

Unified Syllabus

Class - B.Sc. IIIrd Year

Subject - Industrial Chemistry

Paper - Practical

Max. Marks : 50

PRACTICAL SYLLABUS

- 1- Determination of iodine value of an oils or fats.
- 2- Determination of saponification value of oils or fats.
- 3- Identification of calorific value of Petroleum based fuel.
- 4- Separation of important metals Fe, Ni, Cr, etc from effluents and their estimation.
- 5- Separation of ions and metals by thin layer chromatography and paper chromatography.
- 6- Study of adsorption of acetic acid on charcoal and prove the validity of freundilich's adsorption isotherm.

Division of marks for practical

Two parctical	30
Viva	10
Seasonal	10
Total	50 Marks

Project report student are requires to visit industries or place of industrial intrest and to collect their product and chemical effluent analysis and submit a brief report. Student's are also allow to participate in seminar's and workshop of related field.

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Govt. KRG PG (Autonomous) College, Gwalior (M.P.)

List of Examiners for Chemistry / Industrial Chemistry

Name of Professor	Name of College
1. Dr. Deepak Pathak	Govt. College, Jaura, Morena
2. Dr. SN Dikshit	SMS Govt. Science College, Gwalior
3. Dr. AP Gupta	Govt. PG College, Pichore
4. Dr. PD Shakya	Govt. SLP College, Gwalior
5. Dr. MK Jain	Govt. PG College, Shivppuri
6. Dr. Prabha Dikshit	ITM University, Gwalior
7. Dr. AS GAhlaut	Govt. College, Binaganj, Guna
8. Dr. Kiran Burman	Govt. KRG PG College, Gwalior
9. Dr. Anil Kumar Sharma	Govt. College, Balaji Mihona
10. Dr. Manorama Sharma	Govt. KRG PG College, Gwalior
11. Dr. DK Gupta (inorg)	College of Excellence, Bhopal
12. Dr. Seema Shrivastava	PGV College, Gwalior
13. Dr. Sadhna Shrivastava	Govt. SLP College, Gwalior
14. Dr. Sudhanshu Dwivedi	Govt. Benzear College, Bhopal
15. Dr. Neelima Shukla	SMS Govt. Science, Gwalior
16. Dr. Manju Kaushik	Govt. VRG College, Gwalior
17. Dr. VK Agnihotri	Govt. PG College, Bina
18. Dr. Juhi Benagi	Holkar Science College, Indore
19. Dr. Irfan Ahmad (inorg)	Govt. College, Pandhurna
20. Dr. Arpan Bhardwaj	Govt. Madhav Science College, Ujjain
21. Dr. Renu Nayyar	Govt. VRG College, Gwalior
22. Dr. BK Mehta (org)	SOS in Chemistry, Vikram University, Ujjain
23. Dr. Prabha Mehta	Govt. KRG PG College, Gwalior
24. Dr. ON-Chaube	Govt. NMS College, Hoshangabad
25. Shri RB Rastogi	Govt. KRG PG College, Gwalior
26. Dr. S Malotra	SMS Govt. Science College, Gwalior

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- 27. Dr. Veena Sindh Sahni
- 28. Dr. SK Upadhyay Jain College,
- 29. Dr. CS Goswami
- 30. Dr. MC Agrawal (Inorg)
- 31. Dr. Rashmi Ahuja
- 32. Dr. RK Bhatnagar
- 33. Dr. Anand Kumar Singh
- 34. Dr. Pratima Jain
- 35. Dr. RC Goyal (Inorg)
- 36. Dr. AK Shukla
- 37. Dr. GH Adalatwale
- 38. Smt. Laxmi Sharma
- 39. Dr. Swati Pendse
- 40. Dr. Swati Malhotra
- 41. Dr. Mohan Tejraj
- 42. Dr. Kishor Arora
- 43. Dr. Radha Tomar
- 44. Dr. Shubha Jain (Org)
- 45. Dr. AK Sharma
- 46. Dr. CP Shinde (Physical)
- 47. Dr. Shalini Saxena
- 48. Dr. Kumud Shrivastava
- 49. Dr. VK Seria (Org)
- 50. Dr. Rajeev Jain
- 51. Dr. KPS Chauhan (Org)
- 52. Dr. AK Halway
- 53. Dr. DS Chandel
- 54. Dr. SK Shrivastava (Org)
- 55. Dr. DD Agrawal
- 56. Dr. PK Gupta
- 57. Dr. RK Jain
- 58. Dr. Vinneta Agrawal
- 59. Dr. MK Singh (Physical)

- Govt. KRG PG College, Gwalior
- Vidisha
- Govt. KRG PG College, Gwalior
- Retd. Professor
- Retd. Professor
- Govt. KRG PG College, Gwalior
- Govt. KRG PG College, Gwalior
- Retd. Professor
- SMS Govt. Science College, Gwalior
- Retd. Professor
- Govt. SLP College, Gwalior
- PGV College, Gwalior
- Govt. SLP College, Gwalior
- Govt. PG College, Sehore (Ashta)
- Govt. PG College, Datia
- SOS in Chemistry, Jiwaji University, Gwalior
- SOS in Chemistry, Vikram University, Ujjain
- Davy, Indore
- Retd. Professor.
- Govt. MLB College, Bhopal
- Govt. MLB College, Bhopal
- Govt. MGM College, Itarsi
- SOS in Chemistry, Jiwaji University, Gwalior
- Retd. Professor
- SOS in Chemistry, Jiwaji University, Gwalior
- Retd. Professor
- SOS in Chemistry, Jiwaji University, Gwalior
- SOS in Chemistry, Jiwaji University, Gwalior
- Govt. College, Bhopal
- Govt. PG College, Chindwara
- Govt. KRG PG College, Gwalior
- Govt. PG College, Dhaulpur, Rajasthan

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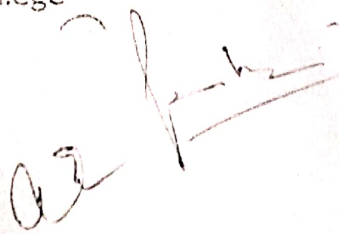
60. Dr. RN Yadav
 61. Dr. AP Mishra (Inorg)
 62. Dr. Archana KAsture
 63. Dr. PS Keshwani
 64. Dr. KP Sharma (Physical)
 65. Dr. DS Agrawal (Commerce)
 66. Dr. RK Bansal
 67. Dr. RC Upadhyay
 68. Dr. Anita Shinde
 69. Dr. Rooplekha Vyas
 70. Dr. Uma Sharma
 71. Dr. Pratibha Sharma
 72. Dr. GD Agrawal
 73. Dr. Savita Dikshit
 74. Dr. Anand Sharma
 75. Dr. SH Raza
 76. Dr. Suman Shrivastava
 77. Dr. Sumanlata Shrivastava
 78. Dr. Bindu Gandhi
 79. Dr. Prabha Chauhan
 80. Dr. RK Shukla (Physical)
 81. Dr. Rajeev Shukla (Physical)
 82. Dr. GP Dubey (Physical)
 83. Dr. SS Nigam
 84. Dr. Maneesha Saxena (Physical)
 85. Dr. A Kasture
 86. Dr. Savita Shrivastava
 87. Dr. Sunita Bhargava
 88. Dr. Chandana Jain
 89. Dr. Prakash Yadav
 90. Dr. JS Parihar
 91. Dr. Magan Prasad
 92. Dr. Soni Govt. College

- Dr. HS Gaur University, Sagar
 Dr. HS Gaur University, Sagar
 Govt. PG College, Pipheria
 Dabra
 Retd. Professor
 Govt. MLB College, Gwalior
 Govt. KRG PG College, Gwalior
 Govt. KRG PG College, Gwalior
 College of Excellence, Bhopal
 Govt. Holkar Science College, Indore
 SOS in Chemistry, Vikram University, Ujjain
 DAVV, Indore
 Govt. College, Rajgargh
 MANIT, Bhopal
 Bhopal
 Govt. MVM College, Bhopal
 Govt. PG College, Guna
 Govt. PG College, Guna

 SMS Govt. Science College, Gwalior
 VSSD College, Kanpur, U.P.
 RBS College, Agra, U.P.
 Kurukshetra University, Kurukshetra

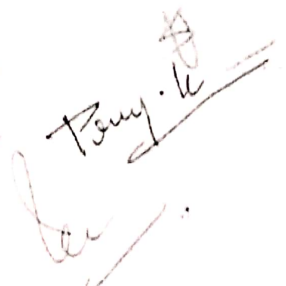
 Govt. PG College, Dhaulpur, Rajasthan
 Govt. ~~MVM~~ College, Bhopal
 College of Life Sciences, Gwalior
 Boston College, Gwalior
 Bundelkhand University, Jhansi, U.P.
 Govt. Maharaja College, Chatarpur
 Govt. PG College, Bharatpur, Rajasthan
 Charkhari













Science College Gwalior

Govt. PG College, ~~Mugawati~~ Ashoknagar

Retd. Professor

Govt. SLP College, Gwalior

Govt. MVM College, Gwalior

Govt. Girls College, Morena

93. Dr. AC Pandey

94. Dr. VK Sharma

95. Dr. PD Shakya

96. Dr. Laxmi Barelia

97. Dr. GS Uchariya

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Department of Higher Education, Govt. of M.P.
Under Graduate Syllabus for B.A. 3 Years
Course as recommended by Central Board of Studies
in Marathi for 2017-18 and onwards

उच्च शिक्षा विभाग, म.प्र.शासन

स्नातक कक्षाओं के लिये त्रिवर्षीय पाठ्यक्रम
केंद्रीय अध्ययन मण्डल मराठी व्दारा अनुशंसित
2017-18 एवं अग्रिम वर्षों के लिये

B.A. Marathi
Examination / Marks Scheme

Paper	Regular Student Max.Marks	Private Student Max.Marks
Theory I	40	50
Theory II	40	50
Quarterly Internal Exam	10	-
Six Monthly Internal Exam	10	-
Total	100	100

P. Kulkarni
(Smt. Pranjali Kulkarni)
Member
14.6.17

S. Thosar
(Dr. Sarika Thosar)
Chairman - Central Board of Studies
14-06-2017

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2017-18 एवं अग्रिम वर्षों के लिये

बी.ए. प्रथम वर्ष

प्रथम प्रश्नपत्र

मराठी पद्य आणि व्याकरण

निर्धारित पाठ्यपुस्तकें

- पूर्णामाय - समग्र कविता - संपादक - डॉ.मधुकर वाकोडे
- तुकारामांचे निवडक 100 अभंग - श्री रा.द.रानडे
- व्याकरण - अलंकार - उपमा, उत्प्रेक्षा, यमक, श्लेष, अतिशयोक्ती, स्वभावोक्ती आणि शुद्धलेखन

युनिट 1 - पूर्णामाय - क्र.17 ते 21 कविता
युनिट 2 - पूर्णामाय - क्र.22 ते 27 कविता
युनिट 3 - तुकारामांचे निवडक 50 अभंग
युनिट 4 - तुकारामांचे निवडक 50 अभंग
युनिट 5 - व्याकरण आणि शुद्धलेखन

संदर्भ ग्रंथ -

- प्राचीन मराठी वाङ्मयाचा इतिहास - अ.ना.देशपांडे
- साक्षात्कारी संत तुकाराम - शं.दा.पेंडसे
- महाराष्ट्र सारस्वत - वि.ल.भावे
- मराठी काव्याचे मानदंड - खंड 1 आणि 2 - डॉ.स.रा.गाडगीळ
- मराठी व्याकरण - मीना दिनकर आठले

नोट -

नियमित विद्यार्थीयोंके लिये 20 अंकोका आंतरिक मूल्याकन (10 अंक त्रैमासिक एवं 10 अंक छःमासी) के साथ 40 अंकोका सैध्दातिक प्रश्नपत्र होगा.

अंकोका विभाजन निम्नानुसार है -

खंड - अ

1) वस्तुनिष्ठ - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $1 \times 5 = 5$

खंड - ब

2) लघुत्तरीय - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $2 \times 5 = 10$

खंड - स

3) दीर्घोत्तरीय - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $5 \times 5 = 25$

स्वाध्यायी छात्रों के लिये प्रश्नपत्र 50 अंकोका होगा

अंकोका विभाजन निम्नानुसार है -

खंड - अ

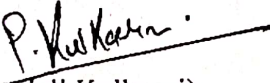
1) वस्तुनिष्ठ - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $1 \times 5 = 5$

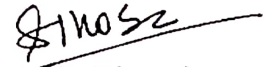
खंड - ब

2) लघुत्तरीय - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $3 \times 5 = 15$

खंड - स

3) दीर्घोत्तरीय - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $6 \times 5 = 30$


(Smt. Pranjali Kulkarni)
Member


(Dr. Sarika Thosar)
Chairman - Central Board of Studies

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उच्च शिक्षा विभाग, म.प्र.शासन

स्नातक कक्षाओं के लिये त्रिवर्षीय पाठ्यक्रम
केंद्रीय अध्ययन मण्डल मराठी व्दारा अनुशंसित
2017-18 एवं अग्रिम वर्षों के लिये
17-18

बी.ए. प्रथम वर्ष
द्वितीय प्रश्नपत्र

अर्वाचीन गद्यआणि नाटक

निर्धारित पाठ्यपुस्तकें

- पूर्णामाय - डॉ.मधुकर वाकोडे
- अश्रुंची झाली फुले - वसंत कानेटकर
- मराठी लेखन मार्गदर्शिका - विरामचिन्हे - यास्मिन शेख
-

युनिट 1 - पूर्णामाय - वैचारिक लेख 1 ते 6

युनिट 2 - पूर्णामाय - ललित लेख 7 ते 16

युनिट 3 - अश्रुंची झाली फुले - नाट्य वाङ्मयाचा इतिहास

युनिट 4 - अश्रुंची झाली फुले - सर्वांगिण अभ्यास

युनिट 5 - मराठी लेखन मार्गदर्शिका - विरामचिन्हे

संदर्भ ग्रंथ -

- आधुनिक मराठी वाङ्मयाचा इतिहास - अ.ना.देशपांडे (नाट्य वाङ्मय)
- शिक्षण - स्वराज्यासाठी - डॉ एस.एस.भोसले
- लोकशाहीचे भवितव्य - डॉ बाबासाहेब आंबेडकर

नोट -

नियमित विद्यार्थियोंके लिये 20 अंकोका आंतरिक मूल्याकन (10 अंक त्रैमासिक एवं 10 अंक छःमासी) के साथ 40 अंकोका सैध्दातिक प्रश्नपत्र होगा.

अंकोका विभाजन निम्नानुसार है -

खंड - अ

4) वस्तुनिष्ठ - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $1 \times 5 = 5$

खंड - ब

5) लघुत्तरीय - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $2 \times 5 = 10$

खंड - स

6) दीर्घोत्तरीय - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $5 \times 5 = 25$

स्वाध्यायी छात्रों के लिये प्रश्नपत्र 50 अंकोका होगा

अंकोका विभाजन निम्नानुसार है -

खंड - अ

4) वस्तुनिष्ठ - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $1 \times 5 = 5$

खंड - ब

5) लघुत्तरीय - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $3 \times 5 = 15$

खंड - स

6) दीर्घोत्तरीय - 10 प्रश्न पूछे जायेंगे जिसमें से 5 करना अनिवार्य - $6 \times 5 = 30$

P. Kulkarni

(Smt. Pranjali Kulkarni)
Member

Sarika Thosar

(Dr. Sarika Thosar)
Chairman - Central Board of Studies