

“सांगोला तालुका शेतकरी शिक्षण प्रसारक मंडळ, सांगोला”

न्यू इंग्लिश स्कूल ज्युनिअर कॉलेज, सांगोला व विज्ञान महाविद्यालय, सांगोला

ता. सांगोला जि. सोलापूर - ४१३ ३०७

स्थापना : १५ मे १९६९, र.नं.महा.२८८ एफ.१९३ सोलापूर ☎(०२१८७) २२०११४, २२०५०८

जावक क्र. ८९/२०२१-२२

दिनांक Date: 26/10/2021

To,
The Principal,
Vidnyan Mahavidyalaya, Sangola
Ref: Your letter dated 22/10/2021
Subject: Regarding the permission to introduce the add on courses/short term courses

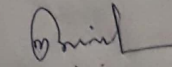
Here with as mentioned in above subject and reference of letter dated 20/10/2021, I am directed to inform you that, in meeting of the Sangola Taluka Shetkari Shikshak Prasarak, Mandal it has been decided to give permission to introduce following sixteen add on courses/ short term courses in Vidnyan Mahavidyalaya, Sangola since for the academic year-2021-22. Do the needful

Note: List of add on courses/short term courses

Dept. Related Self-Financed Short-Term/Add on Courses

- 1) Spoken English
- 2) Introduction of Urdu Language
- 3) Skill to write News and literature for media (Print or electronic)
- 4) Entrepreneurship Development
- 5) Bramhi Script
- 6) Disaster Management
- 7) Communication skill in English
- 8) Programming in C
- 9) Hardware maintenance
- 10) Domestic appliances and its maintenance
- 11) Analysis of soil and water
- 12) Museology
- 13) Modi script
- 14) History of Tourism
- 15) Yoga
- 16) Hydroponics

o/c



Secretary

Sangola Taluka Shetkari Shikshan
Prasarak Mandal, Sangola
Tal. Sangola, Dist. Solapur

Vidnyan Mahavidyalaya, Sangola
DEPARTMENT OF BOTANY
Syllabus of
Skill Enhancement Courses/Add-on (B. Sc. III)

: Hydroponics :

Opportunities:	1. Self-Employment 2. Socioeconomic upgradation
Eligibility:	Anyone interested
Staff Qualification:	Certificate Course in Hydroponics/Any botany graduate
Batch/Intake Capacity:	24

Part - I

1. Basic Principles of hydroponics
2. Introduction to hydroponic fodder system
3. Advantages based on
 - a. Cost / kg
 - b. Area
 - c. Water requirement
 - d. Labor
 - e. Harvesting period
 - f. Comparison to growing in soil
4. Nutritional Value of Hydroponic Fodder
5. Important factors to consider
 - a. Seed selection
 - b. Temperature control
 - c. Humidity control
 - d. Air ventilation
 - e. Hygiene
 - f. Water quality
 - g. Light quality

Part - II

1. How to set up your own hydroponic fodder system with low cost
2. Practical procedures from start to end i.e., from seed to feed
3. Treatment on fungus, mould, flies etc. at initial stage
4. Basics of cattle & goat farming.

Reference Books

1. Basic Knowledge For Various Class Operation Terms Hydroponic by S. P. Gokhale (Jawahar Publications)
2. Hydroponics Principles and Practices- Dr. (Prof.) Padmanathan G., Dr. Ganesh K., Dr. Y. Manoharan, Dr. S. Thangavelu, Dr. Sreedharan P., Dr. Sarinagavalli S. - Agrisat (India)
3. Hydroponic: The advanced technology for fodder production- Mutan Lamaguchi, Ueno S. Suro, Arai T. Tamkai- LAP LAMBERT Academic Publishing
4. Discover Hydroponic Gardening- Steve Moran
5. Hydroponics Basics Booklet - The Greenhouse Catalog
6. Build a 12 Tray Fodder System (Half Part Homestead Plant and Instructions Series Book II) (Print Replica) Kindle Edition- Terry Ann Wilke
7. Fodder- From 1 pound of seed to ten pounds of food- Andrew Sweeney
8. Growing hydroponic fodder step by step guide (7 days)- Best guide on Growing Hydroponic Fodder Step by Step Guide to 7 days- Kevin Gertge

- 22 -

Dr. B. S. Sarinagavalli
Vice-Chancellor
Vidyan Mahavidyalaya,
Sangli District, Maharashtra

Acting
Vidyan Mahavidyalaya,
Tal. Sangli, Dist.

Vidyan Mahavidyalaya, Sangli
DEPARTMENT OF BOTANY
Syllabus of
Skill Enhancement Courses/Add-on (B. Sc. III)

Opportunities:	1. Self-Employment 2. Socioeconomic upgradation
Eligibility:	Any one interested
Staff Qualification:	Certificate Course in Hydroponics/Any honary graduate
Batch/Intake Capacity:	24

Part - I

1. Basic Principles of hydroponics
2. Introduction to hydroponic feeder system
3. Advantages based on
 - a. Cost / kg
 - b. Area
 - c. Water requirement
 - d. Labor
 - e. Harvesting period
 - f. Comparison to growing in soil
4. Nutritional Value of Hydroponic Feeder
5. Important factors to consider
 - a. Seed selection
 - b. Temperature control
 - c. Humidity control
 - d. Air ventilation
 - e. Hygiene
 - f. Water quality
 - g. Light quality

Part - II

1. How to set up your own hydroponic fodder system- low cost
2. Practical procedures from start to end i.e., from seed to feed
3. Treatment on fungus, mould, etc. at initial stage
4. Basics of water & gas farming.

Reference Books

1. Kani Khorshidi Psychiatric Clinic Hospital Tehran, Hydroponic by S. P. Gokhwal (Kani, Pakistan)
2. Hydroponics Principles and Practices Dr. (Prof.) Panchanabhai G., Dr. Ganesan K., Dr. T. Manjunath, Dr. S. Thirumala, Dr. Rameshwar P., Dr. Sarbagavelli S. - Andhra (India)
3. Hydroponics: The advance technology for fodder production- Muzam Lammagishi, Ulhas S. Sene, Anu D. Durbani- LAP LAMBERT Academic Publishing
4. Diseases Hydroponic Gardens- Steve Miller
5. Hydroponics Basic Booklet - The Greenhouse Catalog
6. Build a 12 Tray Fodder System (Half Price Discounted) Plans and Instructions Series Book 2 (Price Rakha) Kindle Edition- Sherry Ann Willis
7. Fodder- from 1 pound of seed to ten pounds of feed- Andrew Sumner
8. Growing hydroponic fodder step by step guide (7 days)- Step guide on Growing Hydroponic Fodder Step by Step Guide in 7 days- Kevin George.

- 22 -

Received
JALU
4/12/21


Prof. Dr. G. Gokhwal
Head
Dept. of Botany
Vidyan Mahavidyalaya
Tal. Sangola


Acting Pr
Vidyan Mahavidyalaya
Tal. Sangola

Vidnyan Mahavidyalaya, Sangola

Sangola Dist. Solapur.

Department Of Marathi

Certificate Course in News Writing for Media

प्रसारमाध्यमांसाठी बातमीलेखन व इतर कौशल्य

Syllabus

प्रकरण	अभ्यासक्रम	अध्यापकांचे नाव
प्रकरण- १	अ. प्रसारमाध्यम स्वरूप प्रकार, वृत्तपत्र, आकृशवाणी व दूरदर्शन ब. प्रसारमाध्यमांसाठी वृत्तलेखन	प्रा. किसन माने.
प्रकरण- २	अ. वृत्तपत्रांचा इतिहास ब. मराठी वृत्तपत्रांची वाटचाल स्वातंत्र्यपूर्व १८३२ ते १९४७ स्वातंत्र्योत्तर १९४७ ते पुढे	प्रा. किसन माने
प्रकरण - ३	अ. वर्तमानपत्रातील बातमीलेखन स्वरूप, बातमी म्हणजे काय ? ब. बातमी लेखन पद्धती क. बातमी लेखन पध्दये / दृष्टता ड. बातमी लेखन व शुद्धलेखन इ. प्रत्यक्ष बातमीलेखन, संचित्र बातमीचे महत्त्व फ. वर्तमानपत्रातील इतर सदरे	प्रा. किसन माने
प्रकरण - ४	अ. बातमीबाबत सांगोपांग माहिती स्रोत व कौशल्य ब. बातमीची रचना क. बातमीलेखन व क्षेत्रीय कार्य ड. वृत्तलेखन	प्रा. किसन माने
प्रकरण - ५	अ. स्तंभलेखन आणि सदरे ब. मुलाखत लेखन क. वृत्तपत्रीय समीक्षामक लेखन ड. पुरवण्यांसाठी लेखन इ. पत्रलेखन - वाचकांचा पत्रव्यवहार	प्रा. किसन पवार
प्रकरण - ६	अ. जाहिरात संकल्पना स्वरूप व प्रकार ब. माध्यमातील जाहिरातीचे स्थान क. जाहिरातीची सामाजिक भूमिका व सामाजिक भान ड. जाहिरातीचे लेखन इ. जाहिरात पारिभाषिक संकल्पना	प्रा. किसन पवार

प्रकरण - ७	अ. इंटरनेटवरील दैनिके - ऑनलाईन वृत्तपत्रे ब. इंटरनेट वृत्तपत्रांचे वेगळेपण आणि उपयुक्तता क. संपर्कासाठी इंटरनेट दैनिकांचे पत्रे ड. पारिभाषिक शब्द	प्रा. किसन पवार
प्रकरण - ८	प्रसारमाध्यम आकाशवाणी / नभोवाणी अ. आकाशवाणी वाटघाल व सद्यस्थिती ब. आकाशवाणीवरील बातम्या स्वरूप वैशिष्ट्ये क. बातमीपत्राचीरचना - बातम्यांची निवड ड. आकाशवाणी समाचार विभाग मार्गदर्शक तत्त्वे इ. नभोवाणी - जाहिरात	डॉ. दीपक रिटे
प्रकरण - ९	प्रसारमाध्यम - दूरचित्रवाणी अ. सहितालेखनासाठी पूर्वतयारी ब. दूरचित्रवाणी निर्मितीची प्रक्रिया क. वृत्तनिवेदन, दूरचित्रवाणीवरील बातम्या ड. बातमीचे प्रकार, निकष इ. दूरचित्रवाणी वाताहराचे कार्य फ. बातमीपत्राचे संपादन, नमुना बातमीपत्र	डॉ. दीपक रिटे
प्रकरण - १०	अ. मुद्रितशोधन - स्वरूप, चिन्हांचा अभ्यास ब. मुद्रितशोधन - उपयोजन	डॉ. दीपक रिटे

1/5/18
विभाग प्रमुख
मराठी विभाग
विद्यान महाविद्यालय, सांगोला
ता. सांगोला जि. सोलापूर

[Signature]
Acting Principal
Vidnyan Mahavidyalaya, Sangola
Tal. Sangola Dist. Solapur

Geography

PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY,
SOLAPUR
Bachelor of Arts (B. A.)

B. A. Part - III

SEC 02

A CERTIFICATE COURSE TRAVEL AND TOURISM

Objectives:

- iii. To introduce the fundamental concept of Travel and Tourism.
- iv. To familiarize with the significance and emerging trends in tourism.

Unit No	Topic	Subtopic	No. of Periods
1	Introduction to Travel	Meaning & definitions of tourism, traveler, excursionist, tourists - Objectives, nature & Classification of tourism & tourists. Tourism recreation & leisure inter-relationship. Growth and development of Tourism through the ages.	10
2	History and growth of travel agency businesses	Emergence of Thomas Cook - Emergence of Travel Intermediaries- Definition - The travel Market: Business Travel - Corporate Travel - Commercial Group Travel - Institutional Travel - Leisure Travel - Family Travel - Single Resort Travel - Special Interest Travel. Types of travel agency and tour operations - Inter-relationship between Travel agency and tour operation. Indian travel agents and tour operators - an overview.	10
3	Components and Forms of Tourism	Components of tourism Forms of Tourism: religious, Medical Tourism, historical, social, adventure, health, business, conferences, conventions, incentives, sports and adventure tourism	10
4	Major tourist attractions in India	physical and political features of Indian subcontinents. Climatic conditions prevailing in India. Tourism attractions in different states and territories of India.	10
5	Tourism Marketing	Marketing for Hospitality and Tourism - Definition - Core Marketing Concepts - Marketing Philosophies - Selling Vs	10

	Marketing, Differences between Products and Services – Technology and Marketing – Specific features of Tourism Marketing.	
	FIELD WORK CASE STUDIES	
	Panning and Organization of tour on famous routs for 2 to 15 days.	60

References:

8. Dennis L & Foseter – Glencoe (2003), an Introduction to Travel & Tourism, McGrawHill
9. Ghosh Bishwanth (2000), Tourism & Travel Management, Second Revised Edition Vikas Publishing House Pvt Ltd, New Delhi.
10. Kaul R.N (1991), Dynamics of Tourism, Sterling Publishers Pvt Ltd, Volume 1, 2 & 3 New Delhi,
11. Pran Nath Seth (1997), Successful Tourism Management, Sterling Publishers Pvt Ltd, New Delhi,
12. Praveen Sethi (1999), Tourism for the Next Millennium, Rajat Publication New Delhi.
13. Singh Anand (2005), Tourism in Ancient India, Serials Publications, New Delhi.
14. Sinha R.K (2003), Growth and Development of Modern Tourism, Dominant Publishers, New Delhi.

Tourism & Travel Management

Fuller
Dept of Geog.

Head
Dept. Geography
Vidnyan Mahavidyalaya, Sangola
Sangola Dist. Solapur

Fuller
Acting Principal
Vidnyan Mahavidyalaya, Sangola
Tal. Sangola Dist. Solapur

Skill Enhancement Course (Add-on-self learning)

Department of chemistry

Carrier Oriented Course : Soil and Water Analysis
Certificate Course in Soil and Water Analysis
Syllabus

Part I - Study of soil.

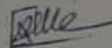
1. Definition of soil, mineral components, classification and properties of minerals.
2. Physical properties of soil – texture, structure, temperature, colour, density, surface area, porosity of soil, soil atmosphere.
3. Chemical properties of soil, soil reaction, soil pH, buffering capacity of soil, ion exchange.
4. Problematic soil- Types of problematic soil, Classification of Acidic soil, Formation of acidic soil, Effect of soil acidity, Reclamation of problematic soil. Alkaline soil. Formation and reclamation of alkaline soil.
5. Soil Testing -Introduction, objectives of soil testing, Phases of soil testing. Collection of soil sample, analysis in laboratory and fertilizer application.

Part II - Study of water

1. Atmospheric water, surface water, ground water. Impurities in water, water quality, problems related to public health, environment and agriculture.
2. Water quality parameter, Water quality standards, Total hardness, COD, BOD, e-coli and total bacteria.
3. Water pollution, types of water pollution, Sources of water pollution, Treatment of water pollution physical and chemical method.

Practical.

1. Determination of total hardness of water.
2. Determination of alkalinity of water.
3. Determination of pH of water.
4. Determination of conductivity of water.
5. Determination of pH and electrical conductivity of the soil.
6. Determination of sulphate concentration of soil.
7. Determination of maximum water holding capacity of the soil.
8. Determination of TDS from water sample.


Acting Principal

Vidyan Mahavidyalaya, Sangola
 Tal. Sangola Dist. Solapur



HEAD

Department of Chemistry

Vidyan Mahavidyalaya, Sangola

VIDNYAN MAHAVIDYALAYA, SANGOLA

DEPARTMENT OF ECONOMICS "A CERTIFICATE COURSE IN ENTREPRENEURSHIP DEVELOPMENT"

SYLLABUS

Total Marks :- 100

SECTION - I (Theory - 60 Marks) **Periods**

- 1) - Meaning, Definition and Characteristics of entrepreneurs. (02)
- 2) - Types and functions of entrepreneurs. (03)
- 3) - Changing Role of entrepreneur in the era of L.P.G. (03)
- 4) - Identification of opportunities, feasibility study, Technical feasibility, market reasearch. (03)
- 5) - Entrepreneurship - meaning, factors motivating entrepreneurship, abtacles inhibiting enterpreneurship. (03)
- 6) - Enterpreneurship motivation, creativity and Innovation, self, management. (03)
- 7) - Enterpreneurship Development and Role of Various Organisation in enterpreneurship development. (07)
- 8) - Women enterprèneurship ✓ (06)
- 9) - Rural enterpreneurship ✓ (05)
- 10) - Establishment of small scale industrial unit. (05).

SECTION - II (Practicle - 40 Marks)

Periods -20

- 1) - Preparation of Project Report -
Project feasibilities, Break even analysis project appraisal.

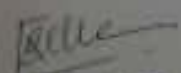
Vidyan Mahavidyalaya, Sangola.
Dept. Of Zoology
Haematology
Year- 2021-2022


Theory syllabus

1. Basic morphology and basic concepts of haematopoiesis
2. Bone marrow structure and examination
3. Red blood cells: Structure and function
4. White blood cells: Structure and function
5. Types of blood group
6. Types of Immune system
7. Leukemia
8. Laboratory methods in haematology
9. Iron metabolism and iron deficiency anaemia
10. Sickle cell anaemia

Practical syllabus

1. Methods of blood collection
2. Preparation of anticoagulation bulb
3. Preparation of blood smear and staining
4. Haemoglobin estimation
5. Differential count
6. WBC counts
7. Bleeding time and clotting time
8. Blood group estimation
9. Widal test
10. Elisa test
11. Pregnancy test


Acting Principal
Vidyan Mahavidyalaya, Sangola
Tal. Sangola Dist. Solapur


HOD Zoology
(Dr. Mr. Khandavkar S)

- 2) Interview with successfully entrepreneurs and study of on Entrepreneurship unit run by men or women entrepreneur.
- 3) Conduct a survey of local resources and indentify business opportunities.
- 4) Experiment of student's entrepreneurship student should undertake a small business venture with their our small amount of capital.

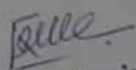
BIBLIOGRAPHY

- 1) Entrepreneurship Development - Gupta & Shrinivash
- 2) Entrepreneurship Development in India - Bishwanath Ghosh
- 3) Fundamentals of Entrepreneurship - Dr. G.K. Varshney
- 4) Women & Rural Entrepreneurship - Dr. D.D. Sharma
- Dr. S.K. Dhameja.
- 5) Project Preparation Appraisale
Implementation - Prasanna Chandra
- 6) Entrepreneurship in the New
millenium Challenges and prospects - Nisiet
- 7) लघुउद्योग अहवाल - निवडक प्रकल्प - मधू मंगेश कर्णिक
- 8) उद्योजकता - डॉ. जितेंद्र अहिरराव
- 9) उद्योजकता विकास संकल्पना आणि व्यवहार - डॉ. प्रभाकर देशमुख

प्रा. संभाजी भ. शिंदे



30.11.2021


Acting Principal
Vidyan Mahavidyalaya, Sangola
Tal. Sangola Dist. Solapur

VIDNYAN MAHAVIDYALAYA SANGOLA

DEPARTMENT OF COMPUTER SCIENCE

Departmental Course Name- Hardware maintenance


Syllabus


Unit I – Introduction Computer Hardware Peripheral-
(e.g. keyboard, mouse, monitor, printer, scanner, CPU,
types of the memory etc)

Unit II- Installing Operating system process

Unit III- Introduction to motherboard and SMPS

Unit IV- Installation all application (Microsoft word, Excel
, Adobe reader, power point ,c ,c++ , Java , .Net , oracle etc)


Head
Dept. Of Computer Science
Vidnyan Mahavidyalaya Sangola


Acting Principal
Vidnyan Mahavidyalaya Sangola
Tal. Sangola Dist. Buldhana

CBCS Pattern B.A. Hindi Sem. VI
Certificate Course In Rajgarparak Hindi
प्रश्नपत्र का नाम : रोजगारपरक हिंदी (प्रमाणपत्र कौशल)
(Credit Theory (04) Practical (00))
Total Theory Lecture (60) Credit 4

अध्ययनार्थ विषय

- इकाई 1 हिंदी भाषा का सामान्य अध्ययन Lecture-15, Credit-1
- हिंदी का सामान्य अध्ययन
 - हिंदी व्याकरण : विलोम, वाक्य एवं वर्तनी शुद्धि, अनेक शब्दों के लिए एक शब्द, तत्सम एवं तद्भव शब्द, पर्यायवाची शब्द
 - अनुवाद का स्वरूप तथा द्विभाषिक ज्ञान : हिंदी-अंग्रेजी
 - भाषिक सम्बंधन कौशल
 - लेखन कौशल
- इकाई 2 प्रयोजनमूलक हिंदी और रोजगार Lecture-15, Credit-1
- हिंदी के द्वारा प्रशासकीय क्षेत्र में रोजगार
- राजभाषा अधिकारी
 - हिंदी अधिकारी
 - हिंदी अनुवादक
- इकाई 3 हिंदी भाषा कौशल Lecture-15, Credit-1
- हिंदी में वाक्चातुर्य के द्वारा रोजगार
- निवेदक
 - रेडियो जीकी
 - समाचार वाचक
 - पर्यटन मार्गदर्शक
- इकाई 4 हिंदी लेखन और रोजगार Lecture-15, Credit-1
- हिंदी में लेखन के द्वारा रोजगार
- पटकथा लेखन

पुण्यश्लोक अहिल्यादेवी होलकर सोलापुर विश्वविद्यालय, सोलापुर

तृतीय वर्ष कला, बी.ए. भाग तीन

रोजगारपरक हिंदी (प्रमाणपत्र कोर्स)

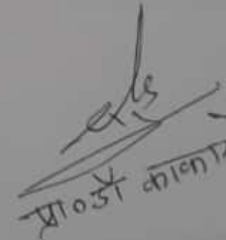
अभ्यापन वर्ष : 2021-22, 2022-2023, 2023-2024

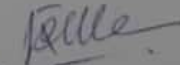
परिचय / Introduction

साहित्य एवं भाषा का अध्ययन करने के उपरान्त केवल ज्ञान की प्राप्ति नहीं बल्कि जीवनयापन करने के लिए एक अच्छे रोजगार की भी आवश्यकता होती है। इसी बात को मद्देनजर रखते हुए प्रस्तुत पाठ्यक्रम बनाया गया है। हिंदी में ऐसे कौनसे क्षेत्र हैं उसकी जानकारी तथा उससे जुड़ा हुआ पाठ्यक्रम इस प्रश्नपत्र में रखा गया है।

पाठ्यक्रम का उद्देश्य / Course objective

1. हिंदी के प्रति छात्रों की रुझान बढ़ाना।
2. हिंदी में होनेवाले रोजगार के क्षेत्रों से अवगत कराना।
3. रोजगार प्राप्ति के लिए आवश्यक कौशल से अवगत कराना।
4. नौकरी हेतु आवश्यक पाठ्यक्रम का अध्ययन कराना।


प्रा.डा. काकासाहेब दास


Acting Principal
Vidnyan Mahavidyalaya, Sangola
Tal. Sangola Dist. Solapur

- संवाद लेखन
- गीतकार
- संपादक
- समाचार लेखक
- पूरु शोधन

Equivalent Subject for Old Syllabus

Sr. No.	Name of the Old Paper	Name of the New Paper
1	—	रोजगारपरक हिंदी

संदर्भ ग्रंथ :

1. मीडियाकालीन हिंदी का स्वरूप एवं संभावनाएँ—डॉ. अर्जुन बख्शान, राधाकृष्ण प्रकाशन, दिल्ली
2. संपादन पृष्ठसज्जा और मुद्रण—प्रो. रमेश जैन
3. व्यावसायिक हिंदी—प्रो. रहमतुल्ला, वाणी प्रकाशन, नई दिल्ली
4. इलेक्ट्रॉनिक मीडिया बदलते आयाम—डॉ. मिश्र, डॉ. अमरनाथ
5. लेखन संपादन और मुद्रण—ओम गुप्ता




Acting Principal
 Vidyan Mahavidyalaya, Sangola
 Tal. Sangola Dist. Solapur

VIDNYAN MAHAVIDYALAYA, SANGOLA

Department of Mathematics

Departmental Course

Class- B.Sc.III Title- Programming With C++

Syllabus

Unit 1- Introduction to C++

History, Keywords, operators, data types, Hierarchy of operators, Header files.

Unit 2- Control Statements in C++

Decision control statements, loop control statements, unconditional statements, nested if else, nested loop etc.

Unit 3- Functions in C++


Definition, types of function, different return types, call by value, call by reference, local & global variable, Default argument passing to function, recursion.

Unit 4- Array

Definition, declaration and initialization of array, one dimensional array, two dimensional array, multidimensional array etc.

Unit 5- Pointer and structure

Definition, initialization, nested structure, pointer arithmetic, simple program using structure and pointer.


Acting Principal
Vidnyan Mahavidyalaya, Sangola
Tal. Sangola Dist. Bidar


HEAD
Department of Mathematics
Vidnyan Mahavidyalaya, Sangola

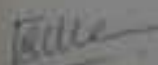
Vidya Mahavidyalaya, Sangola.
Dept. Of Zoology
Haematology
Year- 2021-2022


Theory syllabus

1. Basic morphology and basic concepts of haematopoiesis
2. Bone marrow structure and examination
3. Red blood cells: Structure and function
4. White blood cells: Structure and function
5. Types of blood group
6. Types of immune system
7. Leukemia
8. Laboratory methods in haematology
9. Iron metabolism and iron deficiency anemia
10. Sickle cell anemia

Practical syllabus

1. Methods of blood collection
2. Preparation of anticoagulation bulb
3. Preparation of blood smear and staining
4. Haemoglobin estimation
5. Differential count
6. WBC counts
7. Bleeding time and clotting time
8. Blood group estimation
9. Widal test
10. HPT test
11. Pregnancy test


Acting Principal
Vidya Mahavidyalaya, Sangola
Tal. Sangola Dist. Solapur


HOD Zoology
Dr. M. S. Kulkarni & M.

परीक्षा रचना
लेखी परीक्षा - 50 गुण
तोंडी परीक्षा व अहवाल - 50 गुण

प्रश्नपत्रिकेचे स्वरूप

1	थोडक्यात उत्तरे लिहा (कोणतेही पाच)	गुण 10
2	टीपा लिहा. (कोणतेही चार)	गुण 20
3	दीर्घतरी प्रश्न (कोणतेही एक)	गुण 10
4	दीर्घतरी प्रश्न (कोणतेही एक)	गुण 10

उपयोजित पर्यटनशास्त्र पुस्तकाची यादी

1	भारतीय संस्कृतकोष - पं. महादेवशास्त्री जोशी
2	प्राचीन भारतीय कला - म. श्री. माटे कॉन्टिनेंटल प्रकाशन, पुणे
3	प्राचीन भारत - प्रा. ग. ल. भिडे, फडके प्रकाशन, कोल्हापूर
4	Tourism in India - History and Development, A. K. Bhatiya, Sterling Pub., New Delhi
5	Indian Architecture - Percy Brown, D. B. Taraporwala sons, Mumbai
6	महाराष्ट्र पर्यटन विकास महामंडळाची माहितीपुस्तक
7	Maharashtra Unlimited - M. T. D. C., Mumbai
8	ऐतिहासिक दृष्टीने पर्यटन - डॉ. कर्पू, डॉ. माळी, अक्षरमुद्रण प्रकाशन, सांगलीपूर


सा. मा. टी. टी. ->


Acting Principal
Vidnyan Mahavidyalaya, Sangola
Tal. Sangola Dist. Solapur

Today, 11:13 am

Skill Enhancement Course

SEC 4

Add-on-self learning (On-line Platform: MOOC/SWAYAM Course/ Skill Course)

Credits: 04

Paper Name: Testing and Repairs of Electric Appliances
(Total Credits: 02 and Contact Hrs. 30)

1. Basic Introduction of Electricity	1.1 Safety Rule 1.2 Basic Introduction of Electricity 1.3 Conductors and Insulators 1.4 Types of testing 1.5 Wires and Their Types 1.6 Electrical Quantities and Their Units 1.7 Earthing 1.8 Fuses	08
2. Electrical Appliances 1	Working Testing and repairs of 2.1 Laws of Resistance and Resistors 2.2 Electrical Circuits and Ohms Law 2.3 Effects of Electric Currents 2.4 Electric Iron 2.5 Automatic Iron 2.6 Geyser 2.7 Toaster	07
3 Electrical Appliances 2	Working, Testing and repairs of 3.1 Magnet and Electromagnet 3.2 Electric Door Bell 3.3 Ceiling fans 3.4 Table fans 3.5 Hair dryer 3.6 Geyser- Instant and Storage Type	08
4 Electrical Appliances 3	Study of different parts, fault finding repairs and testing of parts of 4.1 Tungsten Filament Lamp, Mercury and Sodium Vapor Lamps 4.2 Tube light 4.3 Mixer 4.4 Air cooler 4.5 Emergency light 4.6 Fridge	07

Practical Paper: Testing and Repairs of Electric Appliances
(Total Credit 1 and Contact Hrs. 30)

1. Prepare a test lamp and testing
2. Wire continuity testing and connection according to color coding.
3. Actual earthing making and testing.
4. Replacement of fuse.
5. Study of electric Iron and automatic iron
6. Checking of different parts of tube light and repairs
7. Study assembly and repairs of hair dryer
8. Checking and repairs of regulator and fan connections
9. Checking and repairs of fan motor winding
10. Testing of capacitor and replacement.
11. Study of different parts of mixer, fault finding and repairs
12. Fault finding repairing and testing of Air Cooler
13. Study of different parts, circuit diagrams, fault finding and repairs of Emergency light.
14. Study of different parts, repairing of toaster
15. Fault Finding, Repairing and Testing of Freeze

Field work and project: Testing and Repairs of Electric Appliances

(Total Credits: 1)

The Project may be on laboratory works/Field work/Industrial visit for 20 marks. Its report should be submitted at the time of university practical examination for 01 credit.

Reference Books

- | | |
|---|---|
| 1. Modern Electronic Instrumentation and Measurement | Albert D. Helfrick and William David Cooper |
| 2. Electrical and Electronic Measurements and Instrumentation | A K Sawhney |
| 3. Basic electrical engineering | M. L. Anwani |
| 4. Basic electrical engineering Vol. I, II, III, IV. | P. P. Shah |
| 5. Basic electrical engineering Vol. I, II, III, IV. | B. L. Theraja |
| 6. Electrical Mechanics | V. K. Mehta |
| 7. Subodh Vidyutshatra | Trambak Waghmare |