DDU KAUSHAL Kendra by University Grants Commission Biotechnology Capacity Building Cell" (**BT-CBC**) DST, Govt. of Gujarat Centre for Soil Testing (Macro and Micronutrient Analysis) by Govt. of India SSIP (Student Start-Up and Innovation Policy) Cell, Govt. of Gujarat SCOPE (Society for Creation of Opportunities through Proficiency in English) & Finishing School by Govt. of Gujarat

Sarva Vidyalaya Kelavani Mandal, Kadi, managed PRAMUKH SWAMI SCIENCE & H. D. PATEL ARTS COLLEGE, KADI College with Potential for Excellence, phase-I & II (2010-2019) AAA Rank-1 by Govt. of Gujarat

Continuous Internal Evaluation (CIE) System



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SARVA VIDYALAYA KELAVANI MANDAL SANCHALIT PRAMUKH SWAMI SCIENCE AND H.D.PATEL ARTS

COLLEGE, KADI.

RE - ACCREDITED GRADE 'A' (CGPA -3.20) -NAAC COLLEGE WITH POTENTIAL FOR EXCELLENCE (CPE) –UGC AAA RANK 1 – AWARDED BY GOVT. OF GUJARAT

DIPLOMA IN CERAMIC TECHNOLOGY



ACADEMIC YEAR: 2017/2018

| NAME | Patel Viral Raubhai. |
|---------------------|-------------------------------------------------------------|
| CLASS | Diploma in Ceremic Technology |
| ROLL NO | CR-28 (Semester It-II) |
| RESIDENTIAL ADDRESS | 07, Vudvas, AT- Kherpus, Ta- Kedi Dis- Mahsana, Gyerrat. |
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CONTACT NO.: 7574869246, 7574869249

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| 35 | PRECAUTION FOR | GOOD | | V | | Milestone |
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KNOWLEDGE ABOUT EFFLUENT TREATMENT PLANT (ETP) EVALUATOR 1 EVALUATOR 2 POOR -2 97235356 Py4. KNOWLEDGE AVERAGE 36 ABOUT GOOD Cement Products ETP VERY GOOD pat H. Pat Manager EXCELLENT Bavia, Mob. POOR 1 KNOWLEDGE AVERAGE œ 37 ABOUT V GOOD estone **ETP PROCESS** VERY GOOD EXCELLENT EVALUATOR 2 **EVALUATOR 1** POOR KNOWLEDGE ABOUT AVERAGE Ltd : 9723535630 38 **IMPORTANCE OF** GOOD L WATER VERY GOOD Cement Products EXCELLENT POOR R. Pat Manager Day KNOWLEDGE AVERAGE 1 ABOUT la. Mob. 39 2 GOOD **PRECAUTION FOR** VERY GOOD ETP œ EXCELLENT Milestone At. Bavia ony Mr. Dharmesh Patel. **EVALUATOR 1:** R. R. Patel Manager **EVALUATOR 2:** Milestone Cement Products Pvt. Ltd. At. Bavla. Mob. : 9723535630 **HEAD OF** NODAL OFFICER PRINCIPAL DEPARTMENT

Pramukh Swami Science and H.D. Patel Arts College, Kadi

| KADI | Tex | xtile and | d Ginning Technology |
|--------------------|-------|-----------|----------------------|
| Name of Student: _ | PATEL | JAY | MAHESHBHAI |
| | | | · |

Roll No.: 07-8

NSQF Level: 5

Job Role: R.F. TENTER/S.F. TENTER/ B.R - Card OPERATOR

KAD

| Electrical | | | | | | | | |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------|-----------|---------------|--|--|--|
| Practicals | Equipments | Standard Time | Time Deviation | Remark | Evaluated By: | | | |
| To perform ohm's law and know the relation between voltage and current. | DC Supply,0-3amp DC Ammeter, 0-300 V DC Voltmeter, Lamp Load, Motor winding/ Rheostat/ Bulb/Box type resistor | 45 min. | + lomin | good | Apriles | | | |
| To measure voltage, current and power in 1 phase circuit. | 1 phase variac, 0-3 amp AC ammeter, 0-300 v AC Voltmeter, AC Wattmeter, Lamp Load | 45 min. | -05 mig | excellent | Opato | | | |
| To measure voltage and current of two series connected lamps and verify series circuit. | 1 phase variac, 0-3 amp AC ammeter, 0-300 v AC Voltmeter, 2 Switches and 2 lamps with holders | 45 min. | -Ni)- | geod. | apoles. | | | |
| Fo measure voltage and current of two parallel connected lamps and verify parallel circuit. | 1 phase variac, 0-3 amp AC ammeter (3 No.), 0-300 v AC Voltmeter, AC Multimeter, 2 Switches and 2 lamps with holders | 45 min. | -lomin | June | Opales | | | |
| To perform trip test of MCB. | 2 amp MCB, 0-5 amp ammeter and lamp load | 30 min. | +6min. | Avesuge | Berry | | | |
| To know the operating time and current of MCB. | 2 amp MCB, 0-5 amp ammeter and lamp load | 1 hrs. | tsonin | Joul | Ge ates | | | |
| To perform equipment earthing. | Earthing plate(Casting/copper), Pipes/wires | 2 hrs. | + 5 min + 8 min | regood | Dectes | | | |

Mechanical

| Practicals | Operations | Activity | Standard Time | Time Deviation | Accuracy | Remark | Evaluated By: |
|----------------------------------|-----------------------------------|----------------------|------------------|-------------------|------------|---------------|-----------------------------------------------|
| | TT D | Right Angle | 5 hrs. | + 1/2 400 | | | |
| A MERICAN STREAM | To Prepare male- female type | Marking | 30 Min | -05 min | | N | The second second |
| Fitting | fitting jobs bu | Punching | 30 Min | -05min | 851. | es | ATTAC AND |
| | using fitting | Hack-Sawing | 2 hrs. | + 1/4 hors | | 2 al | tet |
| | tools. | Fitting | 3 hrs. | + 12 hrs | | 100 | TOAR |
| | | Finishing | 3 hrs. | Hi). | | 67 6 | 94 |
| | To Prepare tin | Marking | 30 min. | -05min | 100 200 30 | In the second | |
| | smithy job | Cutting | 30 min. | tomin | | | - 101 |
| Tin Smithy | having cutting, | Bending | 1 hr. | Nil | Nora | 08 | Doct |
| | bending, joining and riveting. | Riveting | 1 hr. | + 1/4 has | · 75 1. | e l | Can |
| State Personal State State State | and fiveting. | Finishing | 1 hr. | - Mi) - | | a. | |
| | To prepare | Right Angle | 5 hrs. | + 1/2 hos | 1512 6 18 | V | |
| | Carpentary Job using Wooden | Marking | 1 hrs. | NUL | | e f | Ad |
| Carpentary | Material and | Hack-Sawing | 90 min. | tosmin | 90% | pli | AP |
| | Carpentary | Fitting | 2 hrs. | +14 hos | | 10 0 | 82M |
| | Tools. | Finishing | 30 min | tobmin | | a | |
| | | Surface Smoothing | 1 hrs. | + 1/4 has | 1 | - | |
| Pipe Fitting | To prepare a | Marking | 30 min. | - +111- | 7-1 | 5. | intel. |
| . per ming | Pipe Fitting job. | Threading | l hrs. | + Vx has | TS 7 | | 1000 |
| | A States and | Fitting | 30 min. | - HII - | N-Trans | N | - Det |
| | | Finishing | 1 hrs. | - 1/4 hrs | | 1 | |
| | | Right Angle | 1 hrs. | -NII- | No. | ~ | |
| | To prepare a | Marking | 30 min. | tosmia | 701 | | - |
| OTS Metal Joining | Metal Joining | Punching | 30 min. | - +111- | TUN | Sa | soler |
| a) Z | Job by using Arc - Welding. | joining/Welding | 1 hrs. | +1/2 hos | | 3002 | NAY |
| AU E | | Finishing | 1 hrs. | - Hil - | | 0 | |

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| | | | Surface Smoothing | 30 min. | tos min. | | (ed) | |
|---|-----------------|----------------------|----------------------|---------|------------|-----|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | To prepare job | Tapper turning | 45 min. | - 05 min | 401 | Just | |
| | Lathe Machine | on Lathe | Knurling | 45 min. | +15 min. | fr. | | XXX |
| | | machine. | Threading | 30 min. | + 10 min. | | | ax |
| | | | Drilling | 30 min. | toknin | | | 1 de la companya de l |
| 3 | | - Nin and a state of | Finishing | 1 hrs. | - MII- | | - Contractor | |
| | | | Right Angle | 3 hrs. | 1/4 has | | J. | 1 |
| | | To prepare a job | Marking | 30 min. | - Mi1 - | 851 | I al | a del |
| | Milling Machine | on milling | Punching | 30 min. | - MEI- | 021 | waller a | 6388 |
| | | machine. | Cutting | 1 hrs. | + 1/4 1003 | | C.F. I | |
| | | | Finishing | 1 hrs. | - Vy hos. | | 4 | |

Ginning

| Equipments | Operations | Activity | Standard Time | Time Deviation | Remark | Evaluated By: |
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| | and the second | Foundation | 2433 | +14-12 | excelled | |
| | | Sharpening of Knife | 1 has | NII | VE Bood | 1 |
| | Ginning Operation | Roller Grooving | 3 /25 | - 1/a hos | Average | 1121 |
| Double Roller Gin | (Separation of fibres from seed) | Erection | 6 has | +14 hrs | 3002 | 40/ |
| | from seed) | Speed Setting | 2 has | - HIY- | Verzund | Gin |
| | | Gauge Setting | 1 has | - + X2 has - | | |
| Screw Conveyor | Ginning Operation (Transportation of seed) | Installation | - 3 20.35- | - 111 - | Exceller | p.m. sheat |
| Elevator | Ginning Operation (Lifting of Seeds) | Installation | - 5 has- | - the hos | 9002 | Pngeat |
| Double Roller Gin | To find out quantity of fibres on seed. | To run 25 kgs. Seed cotton on roller ginning machine and calculate the ginning %. | -2h3 - | - Mii - | Excase | R'S CHANNER |

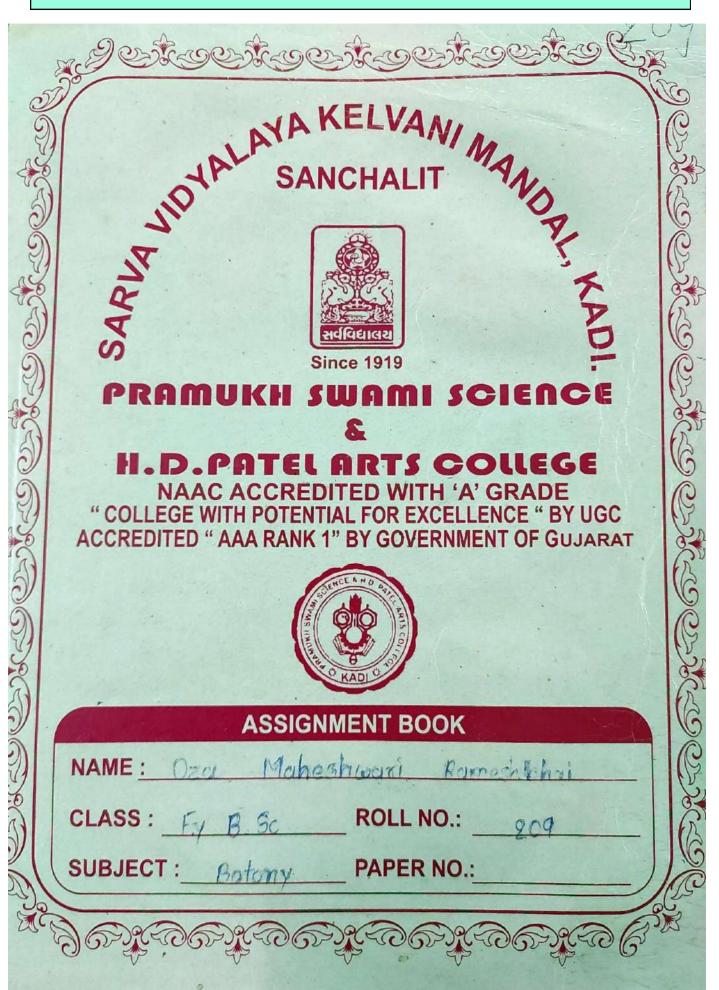
| Ginning Machinery | Maintenance | Oiling and Greasing to roller ginning machine, screw conveyor and Elevator | 45 min | ×111 · | Clog conto | ensie |
|-----------------------------------|--------------------------------|----------------------------------------------------------------------------------------|----------|----------|------------|----------|
| Operation of Ginning Machinery | To run entire Ginning Line. | To produce ginned lint and seed transportation system. | - 3h75 - | + ky hos | Average | R'N Shat |

Spinning

| Equipments | Operations | Activity | Standard Time | Time Deviation | Remark | Evaluated By: |
|------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|------------|---------------|
| Blow room | Cleaning Efficiency | To calculate cleaning efficiency of each blow room machine by using cotton trash analyzer on the basis of trash content present in the cotton. | 6 has | +1/4 has | Just | Grates |
| | Fibre Rupture and Neps Generation | To find out rupture of fibers and generation of neps during blow room treatment by using AFIS instrument. | 1 has | Hi | Stielter | Getes |
| | Cleaning Efficiency | To calculate the cleaning efficiency of carding machine by using cotton trash analyzer. | 1 hor-30 min. | -osmin | aver - | (CR alles |
| Carding | Neps Reduction | To find reduction of neps during carding process by using AFIS instrument. | 30 mints | -05ming | Jood | Gree |
|)*) | Testing | To collect Carding sliver & test them on wrap block and calculate the hank of carding sliver. | 45mm | - Mil- | e scoolier | Brotes |

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Assignment Book



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PRAMUKH SWAMI SCIENCE H. D. PATEL ARTS COLLEGE પ્રમાણાધગ આથી પ્રમાણપત્ર આપવામાં આવે છે કે Dza Maheshari Rameshbhai as ISSC Sem-I zia oinz 209 એ વર્ષ 21/7/16 Unit -I Call Biology ECytology 3 341. [Latt 20.16... - 20.1.7..... EZZUIAB.atany..... NOTION MODEL વિષયના તમામ એસાઈનમેન્ટસ સંતોષકારક રીતે પઈ કરેલ છે. (KATE (N.G.)) વ્યધ્યાપકશ્રીની સહી d1.08 / 09 / 2016 H. D. PATEL ARTS COLLEGE પ્રમાણાપગ આથી પ્રમાણપત્ર આપવામાં આવે છે કે રોલ નંબર એ વર્ષ ดวโ 20......05 વિષયના તમામ એસાઈનમેન્ટસ સંતોષકારક રીતે પૂર્ણ કરેલ છે. અધ્યાપકશ્રીની સહી dI. 1 50 2Cont DC Ant DC

Geldy Biplogy - cytology - Estutated Date: 21/2/1 ह भी गत्राय नमः ह Name - Oza Maheshwasi Rameshbhai cluss - B.Sc Sem-I Roll no - 209 Subject -- Botony heerced

Gell Biology - Cytology [Siraia&1] Page No. 2 Date : 21/2/16 ch-1. વ-1 એજાંગિશરના આશાર રંગમુત્રાના જ પુકારો આકૃતિમર Sigtifiers aus aurgan untani infigue Ster มีสู่เรียนอาเ สยเสส เมเยเนี้ อ่าสุภาคา อาเมี yore 4) 45 છે. 1) મેરોર્સેટ્રી ? મેલમેરામીજુ ? અલમેરામીજુ ? 3) અંદીર્સેલ્ટિ 4) élabérés la large la lassa las chaometids eielels soliciteur eorogen Brz Satellite 2 secondary constration contromerce Isto ANA A PRESS Arm Arm > 2018-171 9-2517 -1250 018 302 Primari Retered to Construction 1 efto tous Elerator -10715 yier Bas with 5 Metacentaic Submeta Acrocentaic Telocentaic centaic sentaic submeta Acrocentaic in Telocentaic 10 10 Marina 1812 16100 808 10100 8100 105 ARE 1) ภิยาษ์โรช ะภ ISIN INGERIA -> રહ્યા પ્રકારમાં અંગ્દ્રો બિરાટ સંસ્થાર શેગાસ સાર્ગ સારકાર્ય ેગવારી લોંજને લાજની લાજને છે મારી શારી જ સરળો અરખી CIGHE SIZE & - દરેલ કોયમાં હાલ્લે દંગમૂત્રો ક્યોલને હ્યાયયમાં ອາເທເຖິງ ຄະເມດິ ຮົ້ອ. ม สมเดก ณิ อากต่า ณาติด อ่วเอาราโติ สาอาวิน éonation de la complication solutioners et -> อาจารน อ่าอาสาร์กลา อนซิ อ่าาสารา เนตา ตะเอา อาสา ાગે આલાગાંદી આવેલ છેલ છે. Choire Cherry Martin Charles A Shugalada Alexa GTRALLA a singe uniterraced county and

R. ou mar ([Boinis] Y Bolot 40 - 400) Bage No. 2) Date: 1 18(13:000) การเรายาและเกิดเกิดเรา สินายากร สินายาการเลาร์ เรายาการเรายาการเรายาการเรายาการเรายาการเรายาการเรายาการเรายาการ -) अद्गिश्वार શ્વેક ભાજુરથે હોવાથી તેની એક શકા છેડા લશ્કશી હો ભૂજાઓ અટેજ ટૂંકો જેવાને ભીજા 2001 हिंहा हिंहा तिरहे के लुआकों के हैंडी बचले जीका छेड़ा लग्ड्रधी में लुझाओं महेर लांसी लोश के 3) aufilifices ! - 2011 331271 เป็นโลเนีย อ้อเอาหาตา คำจะกิจอย éolageloi 2013 छोडानी नाभुष्ठ छोटा छे. -> तीयी अगेर होडा तरहा के लुआओ युदा कट्ंडी अपने जीम होडानी के लुआओ पुसारामां सोली હોશ છે. તે છેડે સોટેલાઇટ ૫૯૧ શગાવે છે. 47 2)(4))21628 :-न केंसां सेव्हामिश्ट रंगसूधना र्येड छेडे होश हो. तेशी तेने २ग्रेंड क छोड़े २०१२ (अष्ठामी भी ભૂભારતી હોય છે. No BETLEISIE Ct THEN BIS MORELEIGS / STORE STORES 11261812 1115 Q - 2. प्रोडेशशोशी8 (होस कार्ग युद्धिशिशी8 होभनी रमातमूहम संख्यनानी सरणामाली हरी 98. No तहाला प्राइशीयोटीह युद्धियोटीह हीय के हाय होय NEY BELLIO IDD10-1000lim 0 200100 lim કારનામાં જે જિલ્લાન કાર્યોના કાર્ય કાર્યોના કાર્ય उ. डोभाहवाल डीमहिटालनी एकरी आज वन डोयमा 2101 GIEIIZII 012 01082 4. 5121221212 2182 2182 અલ્પાવક્સીત ત્યાદી) હાજર 5. કોયઉદ્

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PRAMUKH SWAMI SCIENCE & H.D.PATEL ARTS COLLEGE

" COLLEGE WITH POTENTIAL FOR EXCELLENCE " BY UGC ACCREDITED " AAA RANK 1" BY GOVERNMENT OF GUJARAT



ASSIGNMENT BOOK

NAME: POOJA . Y . SHINDE CLASS: T.Y B.S. (B.T) ROLL NO .: 452 SUBJECT : Moleul an Biblogy PAPER NO .: 8

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 Oriented in the 5'→3' directions and the other
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PAGE NO. DATE > Z-DNA ALTS - A S . It is left handed double helical structure · The repeating Unit is cliniclesticfe . · electrostatic interactions play a crucial rule is Z-DNA formation Therefore Z-DNA is stabilized by high salt concentration as polyvalent contrans that shield interphosphate repulsion better than monovalent cations · Mafor groove - 16t. · Minor groove - Narwas & deep. Risc per base pair > 3.8A Rotation per base pire > 60° per 2 bp Tilt of base normal to -> -9" helin anis Right harded helen APT - intraine to publich i Holiph - 30197 A

Unit Test

PRAMUKH SWAMI SCIENCE & H. D. PATEL ARTS COLLEGE, KADI Unit test –3 Paper : 604 (CCI-14) B.Sc. Biotechnology Sem - 6

Date:- 24/01/17

Time:1Hr

Subject: Biotechnology (Analytical techniques in biotechnology)

Instructions:

- 1) All questions are compulsory
- 2) Use black/blue point pen to fill OMR Sheet
- 3) Darken the bubble completely in OMR Sheet
- 4) Don't use pencil to Darken the bubble in OMR Sheet
- The BLAST program was developed in ______
 - a) 1990
 - b) 1995
 - c) 1992
 - d) 1991

- a) three, eleven
- b) three, three
- c) ten, eleven

d) three, ten

- 3. In sequence alignment by BLAST, the second step is to search a sequence database for the occurrence of these words.
 - a) False
 - b) True
- 4. Which of the following is not a variant of BLAST?
 - a) BLASTN
 - b) BLASTP
 - c) BLASTX
 - d) TBLASTNX
- 5. Which of the following is not a correct about BLAST?

a) The BLAST web server has been designed in suchaway as to simplify the task of program selection.

- b) The programs are organized based on he type of query sequences
- c) BLAST is not based on heuristic searching methods

d) The programs are organized based on the type of nucleotide sequences, or nucleotide sequence to be translated

6. Which of the following doesn't describe PAM matrices?

 a) This family of matrices lists the likelihood of change from one amino acid to another in homologous protein sequences during evolution

b) There is presently no other type of scoring matrix that is based on such sound evolutionary principles as are these matrices

c) Even though they were originally based on a relatively small data set, the PAM matrices remain a useful tool for sequence alignment

d) It stands for Percent Altered Mutation

7. What is the length of a motif, in terms of amino acids residue?

- a) 30- 60
- b) 70- 90
- c) 10-20
- d) 1-10
- 8. On average, what is the length of a typical domain?
 - a) About 500 residues
 - b) About 300 residues
 - c) About 900 residues
 - d) About 100 residues
- 9. Which of the following is false about the 'loop' structure in proteins?
 - a) They connect helices and sheets
 - b) They are more tolerant of mutations
 - c) They are more flexible and can adopt multiple conformations
 - d) They are never the components of active sites
- 10. Motifs that can form α/β horseshoes conformation are rich with which protein residue?
 - a) Proline
 - b) Arginine
 - c) Leucine
 - d) Valine
- 11. Which of the following wrongly describes protein domains?
 - a) They are separated by linker regions
 - b) Defined as independently foldable units
 - c) They are stable structures as compared to motifs
 - d) They are made up of one secondary structure
- 12. In the zinc finger, which residues in this sequence motif form ligands to a zinc ion?
 - a) Cysteine and arginine
 - b) Cysteine and histidine
 - c) Histidine and proline
 - d) Histidine and arginine
- When did Needleman-Wunsch first describe the algorithm for global alignment?
 a) 1899

- b) 1970
- c) 1930
- d) 1950
- 14. Which of the following does not describe PAM matrices?
 - a) These matrices are used in optimal alignment scoring
 - b) It stands for Point Altered Mutations
 - c) It stands for Point Accepted Mutations
 - d) It was first developed by Margaret Dayhoff
- 15. Which of the following is wrong in case of substitution matrices?
 - a) BLOSUM-X type uses logarithmic identity to find similarity
 - b) They use system where substitutions that are more likely should get a higher score
 - c) They use system where substitutions that are less likely should get a lower score
 - d) They determine likelihood of homology between two sequences

16. Which of the following is incorrect about ENTREZ?

a) It provides a series of forms that can be filled out to retrieve a Medline reference related to the molecular biology sequence databases

b) It is a resource prepared only by the staff of the National Center for Biotechnology Information

- c) One straightforward way to access the sequence databases is through ENTREZ
- d) It provides a series of forms that can be filled out to retrieve a DNA or protein sequence
- 17. Using boolean logic, the search looks for database entries that include the first term _ the second, and subsequent terms repeated until the last term.
 - a) AND
 - b) OR
 - c) ExOR
 - d) NAND
- 18. _____ the smallest amino acid, has a hydrogen atom as the R group.
 - a) valine
 - b) proline
 - c) threonine
 - d) Glycine
- 19. The building blocks of proteins are ______ naturally occurring amino acids, small molecules that contain a free amino group (NH2) and a free carboxyl group (COOH).
 - a) ten
 - b) nineteen
 - c) nine
 - d) twenty

- 20. A linear polymer of more than fifty amino acid residues is referred to as a _____
 - a) dipeptide
 - b) oligopeptide
 - c) polypeptide
 - d) peptide
- 21. Which of the following is not correct about the X-ray Crystallography?

a) In x-ray protein crystallography, proteins need to be grown into large crystals in which their positions are fixed in a repeated, ordered fashion

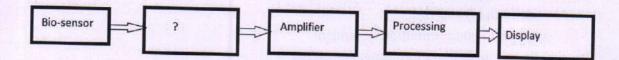
- b) The protein crystals are illuminated with an intense x-ray beam
- c) The protein crystals are illuminated with an intense infrared beam
- d) The x-rays are deflected by the electron clouds surrounding the atoms in the crystal producing a regular pattern of diffraction
- 22. The first human genome project was initiated by
 - a) NIH & DOE
 - b) NIH & EBI
 - c) NIH & DDBJ
 - d) DOE & DDBJ
- 23. The largest gene in human id
 - a) Dystrophin
 - b) Titin
 - c) Insulin
 - d) Phosphofructokinase
- 24. The first draft of HGP was published in 2001 in the journal
 - a) Science
 - b) Cell
 - c) Nature
 - d) Plos biology
- 25. Which of the following is not a characteristic of the immobilized enzymes?
 - a) They cannot be re-used
 - b) It produces reproducible results
 - c) Stability exists
 - d) Same catalytic activity is present for number of analysis
- 26. Which of the following is the physico-chemical component?
 - a) Enzymes
 - b) Anti-bodies
 - c) Cells or tissues
 - d) Transducer
- 27. An example of biosensor, urea electrode makes use of which of the following electrodes?

- a) Carbon dioxide electrode
- b) Ammonia electrode
- c) Ammonium electrode
- d) Fluoride electrode
- 28. Transducers employed in the bulk of enzyme electrodes use which of the following principles?
 - a) Optical
 - b) Amperometric
 - c) Magnetic
 - d) Colorimetric

29.

converts biochemical events into measurable signals.

- a) amplifier
- b) pump
- c) rectifier
- d) transducer
- 30. The biological response of the biosensor is determined by _____
 - a) artificial membrane
 - b) physio-chemical membrane
 - c) chemical membrane
 - d) biocatalytic membrane
- 31. Home blood glucose sensor works on which principle?
 - a) electro-physiological
 - b) physio-chemical
 - c) electrochemical
 - d) chemical
- 32. Given below is the diagram of biosensor. Identify the unmarked component.



- a) Microprocessor
- b) Filter
- c) Transducer
- d) A/D converter
- 33. Blood glucose level measurement device uses a biosensor works on the principle of electrochemical.
 - a) False
 - b) True

- 34. For constructing the glucose sensor, which of the following is used as a gel?a) Polyacrylamide
 - b) Urea
 - c) Acrylamide
 - d) Urease
- 35. The immobilization technique involving physical method is
 - a) non-covalent bond formation dependent
 - b) covalent bond formation dependent
 - c) both (a) and (b)
 - d) ionic bond formation dependent
- 36. Which of the following is the commonly employed adsorbents?
 - a) Calcium carbonate
 - b) Alumina
 - c) Celluloses
 - d) All of these
- 37. Which of the following is not a physical method of immobilization?
 - a) Adsorption
 - b) Entrapment
 - c) Micro encapsulation
 - d) None of these
- 38. The most commonly employed cross-linked polymer is the
 - a) collagen
 - b) celluloses
 - c) polyacrylamide gel
 - d) cation exchange resin
- 39. The immobilized technique involving chemical method is
 - a) non-covalent bond formation dependent
 - b) both (a) and (b)
 - c) ionic bond formation dependent
 - d) covalent bond formation dependent
- 40. Water insoluble enzymes can be prepared by using multifunctional agents that are bifunctional in nature and have
 - a) low molecular weight
 - b) high molecular weight
 - c) high equivalent weight
 - d) low reactivity
- 41. Acid rain is produce due to ...

A) Oxides of nitrogen

B) Oxides of sulphur

C) Both A and B

D) None of the above.

42. Global warming is caused due to ...

A) Decrease in co2 conc.

B) Increase in co2 conc.

C) Decrease in So2 conc.

D) Increase in No2 conc.

43. The color of leave is green, it indicate leaves...

A) Absorbs green light

B) Reflects green light

C)Both A and B.

D)None of the above.

44. Plant Biomass and wood is /are example(s) of ...

A) Renewable source of energy.

B) Non renewable source of energy.

C) Both A and B.

D) None of the above.

45. In biogas, 96% concentration is of ...

A) Carbon dioxide

B)carbon monoxide.

C) Methane

D) Hydrogen sulphide

46. Which of the following statement is /are correct...

A) Methanogens are anaerobes.

B) Methanogens are psychrophilic.

C) Methanogens are mesophilic.

D) Both A and B.

47. Ozone layer is found in...

A) Trophposphere.

B) Thermosphere

C) Stratosphere

D) Ionosphere

48. The overall result of global warming is/ are

A) Increase in temperature

B) Melting of ice

C) Rise in level of sea.

D)All of the above.

49. Formation of fossil fuels require...

A) One day

B) One week

C) several thousand years

D) One month

50. It is best to use biogas because ...

A) It is smokeless

B) When burn produce blue color of flame.

c) It is cheap source of energy.

D) All of the above.

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| B Gujarati C History | Biotechnology Microbiology | 36. | | • | | | 87. | (1) | 6 | 0 | 0 | 130. | | 6 | 0 | 0 |
| D Sanskrit | (K) Botany | 38. | (3) | 6 | | đ | 88. | (a) | b | \bigcirc | d | 138. | (a) | D | 0 | 0 |
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Weekly Test

P. S. Science & H. D. Patel Arts College, Kadi B.Sc. Semester: III Weekly Test Foundation English

Total Marks: 20 Date: 22 -08-2017 Time: 11:10 to 12:10

| Ç | Q. 1 | Bring out the theme of the story " <i>The Last Salvation</i> ". | 11 |
|---|-------------|-----------------------------------------------------------------|-----------------|
| Ç |) .2 | Answer in short any three questions: | 09 |
| | 1. | Describe the personality of Gangu before his marriage. | |
| | 2. | Why was Bharati enthusiastic about the trip to the sangan | n at Allahabad? |
| | 3. | How did Bharati and her husband abandon Motibai in All | ahabad? |
| | 4. | What is the character of the grandfather as it appears in th | e story? |
| | | | |

P. S. Science & H. D. Patel Arts College, Kadi B.A. Semester: III Weekly Test Foundation English Total Marks: 20

Time: 10:10 to 11:10

Date: 29-08-2017

Q. 1 Bring out the irony in the story "A Slip of the Tongue."10

Q.2 Fill in the blank with a proper word given in the bracket.

10

- 1. Girls _____ play garba better than boys. (can / must)
- 2. Today it _____ rain. (may / should)
- 3. You _____ work hard to get good marks. (should/would)
- 4. Rani has _____ dresses with her. (many / much)
- 5. Give me ______ sugar in the milk. (a little / a few)

Project & Internship

Pramukh Swami Science & H.D.Patel Arts College, Kadi Biotechnology Department Field Project Work Report 2017-18

Title : In Vitro Micro propagation of Tridox plant

Name of Students : Bariya Lokesh Hasmuksinh Bhavsar Vartika Nitinkumar Patel Jay Vinodbhai Patel Umang Kantibhai Parmar Mehul Maheshbhai

> Under the supervision of Dr. Ramchandra Suthar

Plan of work : 1. Survey of College garden area : 6 days 2. Identification of plant and collection of explants

Outcomes : Identification of plant is done. Identification and isolation of explants. In vitro Micro propagation of plants.



Sarva Vidyalaya Kelvani Mandal,Kadi Sanchalit PRAMUKH SWAMI SCIENCE & H.D.PATEL ARTS COLLEGE,KADI "College with potential for excellence " - awarded by UGC Accredited A by NAAC

(Affiliated to Hemchandracharya North Gujarat University,Patan) Sarva Vidyalaya Campus, B/h Railway Station, KADI - 382 715 Dist : Mehsana. (Gujarat) India. Tele.FAX : (02764) 262634 Website : www.psshda.org. E-mail : psshdpa@yahoo.co.in



CERTIFICATE

This is to certify that the project entitled *In Vitro* Micro propagation of Tridox plant submitted to Department of Biotechnology, is a record research work carried by Bariya LokeshHasmuksinh, Bhavsar Vartika Nitinkumar, Patel Jay Vinodbhai, Patel Umang Kantibhai, Parmar Mehul Maheshbhai under the supervision of Dr. Ramchandra Suthar (Assistant Professor, P.S.S.H.D.A, KADI).

Student's Name:- Bariya Lokesh Hasmuksinh Bhavsar Vartika Nitinkumar Patel Jay Vinodbhai Jey Patel Patel Umang Kantibhai Parmar Mehul Maheshbhai

Dr. Ramchandra Suthar (Guide)



Dr. Kamlesh Shah (Head Of Department, Biotechnology)

Head Bio Technology Department P.S.Science & H.D.Patel Arts College, KADI, Dist.Mehsana, Pin.382715

Date: 13 03 2018

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| 2 | MATERIAL AND METHOD | 6 | | |
| 3 | RESULT AND DISCUSSION | 7 | | |
| 4 | CONCLUSION | 10 | | |

INTRODUCTION

Botanical Name : Tridax procumbens (L.)

Common Name : Pardesi Bhangaro, Tridax Daisy, Coat Buttons, Mexican Daisy

Plant Family : Asteraceae (Compositae)

According to the Rules of ICBN the names of the families should end in **-aceae**. Thus the new name for the family Compositae became Asteraceae. However, the name Compositae is also exempted and conserved under 'Nomina Conservanda' because of their constant use for a long time.

Plant Form: Herb

Occurrence (Sectors): 1, 5, 10, 12, 17, 26, 27, 29

Occurrence (Special Areas in Gujarat) : Indroda Park, Punit Van, Sarita Udyan, Basan, Aranya Van

About Tridax procumbens Plant :

Habit : A small, straggling, procumbent, perennial hairy, herb.

Leaves : Opposite, ovate-elliptic, acute, deeply inciso-dentate, hairy-glandular.

Inflorescence : Capitulum (Head)

Flowers :

- · Pale-yellow in very long, peduncled, solitary heads, hairy. Involucral bracts hairy.
- · Ray florets ligulate, yellow, pappus of numerous unequal feathery bristles.
- · Disk florets bisexual, corolla regular, tubular, pentafid.
- Anthers sagittate.

Fruits : Cypsela oblong, densely covered with silky hairs, black.

Flowering and Fruiting Time : Around the year.

Significance : Common weed everywhere.

Tridax procumbens L, known as Mexican daisy (Coatbuttons) is hardy, perennial, procumbent herb (Asteraceae). The plant is valued for its divergent pharmaceutical properties. The leaf juice has antiseptic, insecticidal and parasiticidal properties. It is used to check hemorrhage from cuts and wounds, bruises and wounds, dysentery, diarrhea and also for preventing premature hair fall. The species is widely used in traditional medicine in India and is in great demand in the Indian pharmaceutical industry (Malik and Chitra, 2009).

An aqueous extract of this plant also has marked depressant action on respiration. Earlier workers have already reported the presence of dexamethasone luteolin, glucoluteolin, b-sitosterol and quercetin in this plant (Reddy et al., 2001). The plant harbours immense medicinal potential. It is used to cure hepatitis. Its extract is used to increase immune inflammatory reactions, such as increase in phagocytic index, leucocyte count and antibody secret- ing cells. It has been shown to exhibit dexamethasone effects on wound contraction and granulation. T. procumbens develops granulation tissue in rats. It also affects lysyl oxidase activity.

The extracts of T. procumbens have been reported to have various pharmacological effects, antimicrobial activity against both gram positive and gram negative bacteria and stimulate wound healing. Flavones, glycosides, polysaccharides and monosaccharides have been isolated from the leaves of the plant. The species is widely exploited and its distribution has been declining over the years. It is not possible to micropropagate it through vegetative means, for example cuttings. Propagation through seeds is likely to cause variations. Recently methods have been developed for its ex situ conservation through micropropagation (Saini et al., 2008).

Advanced biotechnological methods of culturing plant cells and tissues should provide new means of conserving and rapidly propagating valuable, rare and endangered medicinal plants (Nalawade et al., 2003). Successful micro propagation protocols for various medicinal plants have been developed and their conservation has also become feasible through synthetic seeds and cryopreservation technologies. The present studies were undertaken to investigate an efficient method for in vitro multiple shoot proliferation of *Tridax procumbens* L.

Materials and methods

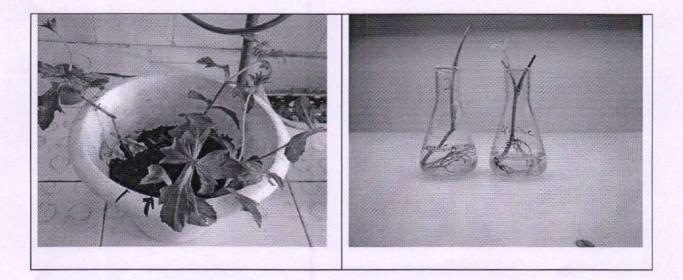
Plant material and explant collection

- · Plant material was collected from Santaram city garden.
- Shoot tip and nodal segment were both used for establishing maximum number of multiple shoots. The explants (1-2 cm.) were washed thoroughly under running tap water for 10 min and then treated with few drops of tween-20 (Polyoxyethylene sorbitan monolaurate) for one min with constant shaking by hand. The shaking followed three successive washings again with distilled water.
- The surface sterilization was carried out with 0.1% HgCl₂ followed by gentle shaking. The segmented parts were thoroughly washed for several times with sterile distilled water and explants were transferred in 25x 150mm. The culture tubes were incubated at 25±4 °C under the warm fluorescent light with intensity varying from 2000-3000 lux. The pH of the media was adjusted to 5.8 prior to all autoclaving.
- The cultures were incubated for 8 hours photoperiods. Shoot induction and multiplication The shot tip and nodal segment explants were cultured on MS medium supplemented with different concentrations (0.5, 1.0, 2.0, 3.0 & 4.0) of BAP and KIN. Data for percentage shoot regeneration, shoot number per explants and shoot length was recorded after 45days of culture.

Surface sterilization

After one week of inoculation 0.1% HgCl₂ (for 5 min.) treated explants 90% were found contamination free and healthy. HgCl₂ used for short duration (1, 2, 3 min) failed to kill the microorganisms and long time (8 minutes), causes no contamination but partial or complete tissue killing was observed.

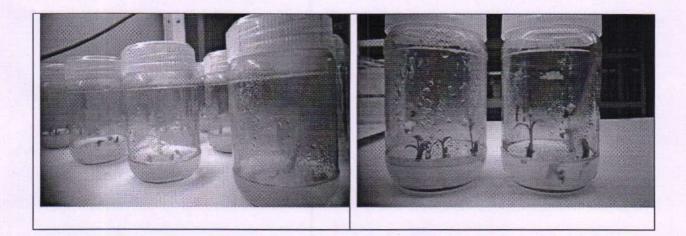
Results & discussion :



Multiple shoot development from shoot tip and nodal segment explants:

Shoot tip explants

The highest culture response (90%) was observed in BAP and lowest (35%) was in KIN. Highest mean number of shoots per culture was 10.5 ± 0.27 in 1.0 mg/l BAP and lowest mean number of shoots per culture was 1.0 ± 0.32 in combination of 1.0 mg/l KIN +0.1 mg/l IBA. Highest mean length of shoots was 6.2 ± 0.54 cm in combination of 2. 0 mg/l BAP+0.1 mg/l GA3 and lowest mean length of shoots was 2.0 ± 0.62 cm in combination of 2.0 mg/l BAP+1.0 mg/l KIN. The highest (10%) and lowest (1%) root formation was in combination of 2.0 mg/l KIN+ 1.0 mg/l NAA and 3.0 mg/l KIN, respectively. To ensure the necessity of growth regulators for rapid micropropagation from shoot tip, a control medium (MS0) was also used in this experiment. Only 35% shoot tips responded with a lowest mean number 1.3 ± 0.21 of shoots per culture.

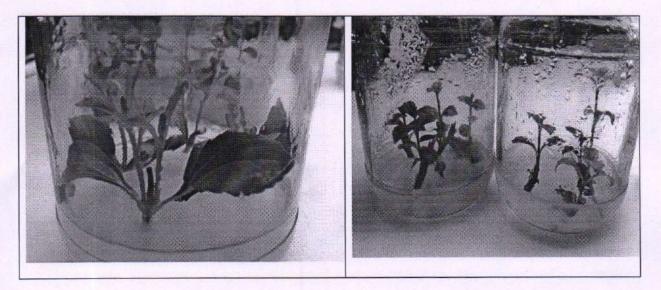




Nodal segment explants

The highest culture response (95%) was observed in 1.0 mg/l BAP and lowest (30%) was in combination of 2.0 mg/l BAP+1.0 mg/l KIN. Highest mean number of shoots per culture was 10.6 \pm 0.18 in 2.0 mg/l BAP and lowest mean number of shoots per culture was 1.9 \pm 0.24 in combination of 1.0 mg/l KIN +0.1 mg/l IBA. Highest mean length of shoots was 6.1 \pm 0.12 cm in

combination of 2.0 mg/l BAP+0.1 mg/l GA₃ and lowest mean length of shoots was 2.0 ± 0.12 cm in 4.0 mg/l KIN. The highest (9%) root formation was in combination of 2.0 mg/l KIN+0.1 NAA and 2.0 mg/l KIN+0.1 mg/l IBA. Lowest (1%) root formation was in 4.0 mg/l KIN and in combination of 2.0 mg/l BAP+1.0 mg/l KIN. To ensure necessity of growth regulator for rapid micropropagation form nodal segment, a medium (MS0) was also used in this experiment only 40% nodal segments responded with a lowest mean number (2.1\pm0.31) of shoots per culture in this medium.





Conclusion:

The data presented above demonstrates that BAP with 1.0 mg/l is best for nodal segments. To ensure necessity of growth regulator for rapid micro propagation from nodal segment, a medium (MS0) was also used in this experiment.

Bariya Lokesh Hasmuksinh U.H. Buniya Bhavsar Vartika Nitinkumar Patel Jay Vinodbhai Juy Patel Patel Umang Kantibhai Parmar Mehul Maheshbhai MMM Student's Name:- Bariya Lokesh Hasmuksinh

Sign of supervisor: Date: 15 03 2018



MATRUCHHAYA COTTON INDUSTRIES

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Serve No.: 123/1, Kherpur, Kadi-Nandasan Road, Ta. Kadi, Dist. Mehsana-382715. Ph.: 02764-291640 Cell : 99258 99321, 9825287131 Email : Matruchhaya_cotton@yahoo.in

TO WHOMSOEVER IT MAY CONCERN

This is to certify that 24 students of **B.Voc. Textile and Ginning Technology** (Pramukh Swami Science and H.D. Patel Arts College, Kadi) has successfully completed 15 days training dated 11/09/2017 to 25/09/2017 in our Ginning Process and Maintenance in our esteemed organization. On behalf of our organization I wish them all the best for the future endeavor.

| C. No. | Name | Sr No | Name |
|--------|-----------------------------------------------------|-------|----------------------------------|
| Sr No | a second design | 13 | PATEL PRAKASHKUMAR BABUBHAI |
| 1 | BARAD YUVRAJSINH RAMABHAI | 14 | PATEL RONAKKUMAR NATVARBHAI |
| 2 | DESAI VIPULBHAI JIVANBHAI | | PRAJAPATI PRATIKKUMAR ASHOKBHAI |
| 3 | JADAV RAVIRAJ NAVUJI | 15 | |
| 4 | JOSHI MAYANK ASHOKBHAI | 16 | RAJPUT ASHOKKUMAR MAFATBHAI |
| 5 | PAREJIYA SHIVKUMAR DALSUKHBHAI | 17 | SOLANKI JAYDEVSINH DILIPSINH |
| | PARMAR JAYDEEPKUMAR MAHENDRABHAI | 18 | SOLANKI YUVARAJ HIRABHA |
| 6 | PARMAR PAVANKUMAR DHANJIBHAI | 19 | SOLANKI PANKAJSINH KALUBHA |
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| 9 | PATEL AMITKUMAR KIRITBHAI | 21 | PRAJAPATI AJAY KANTILAL |
| | PATEL DHRUVKUMAR MUKESHBHAI | 22 | THAKOR AJAYKUMAR RAMTUJI |
| 10 | PATEL DIROVROMAN MORE PATEL GAURANGKUMAR NARSIHBHAI | 23 | NAYAK HARSHIL YOGESHBHAI |
| 11 | PATEL HARDIKKUMAR LALIBHAI | 24 | KURESHI FARUKHHUSEN INTIYAJHUSEN |







Date: 22/02/2018

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TO WHOMSOEVER IT MAY CONCERN

This Is To Certify That Following Listed 34 Students Of Diploma In Ceramic Technology At Pramukh Swami Science And H. D. Patel Arts College, Kadi Have Successfully Completed Their Internship At Our Industry Somany Ceramic Limited, Kadi.

| Sr.No | Name | Area Of Internship |
|-------|----------------------------------|-----------------------------------|
| 1 | Mishra Shashibhushan Sajjankumar | |
| 2 | Pandey Chirag Manikishor | The Property of The method and |
| 3 | Parmar Shaileshbhai Vashrambhai | |
| 4 | Patel Ajaykumar Chandubhai | |
| 5 | Patel Akshaykumar Maheshbhai | |
| 6 | Patel Ankitkumar Vishnubhai | where is |
| 7 | Patel Bhavikkumar Dineshbhai | . It autory Carlunity Littlifed . |
| 8 | Patel Bhavikkumar Visabhai | |
| 9 | Patel Dikshitkumar Sureshbhai | |
| 10 | Patel Jatinkumar Rasiklal | Authorisid Bignetuce |
| 11 | Patel Jaydipbhai Ashokbhai | |
| 12 | Patel Jayendrakumar Khodabhai | 22. |
| 13 | Patel Krunalbhai Rasikbhai | All Tiles Ware Production |
| 14 | Patel Meetkumar Mahendrabhai | Learn All Process Like Raw |
| 15 | Patel Sandipkumar Chandubhai | — Material Testing, Sleep Making |
| 16 | Patel Shanikumar Rajendrakumar | Process, Process Of Press, |
| 17 | Patel Swastik Ashokbhai | |
| 18 | Patel Viralkumar Naginbhai | Glazing Process, Kiln Process |
| 19 | Raval Ajaykumar Bharatbhai | And Quality Control Process Of |
| 20 | Solanki Shaktisinh Harisinh | Tiles Ware Production In |
| 21 | Thakor Vishnukumar Kuvarji | Details. Students Have Also Get |
| 22 | Vaghela Bharatji Baldevji | Detail Knowledge About ETP. |
| 23 | Vaghela Yogeshkumar Ladhuji | |
| 24 | Darji Bipinkumar Pravinbhai | |
| 25 | Patel Pratikkumar Rameshbhai | |
| 26 | Raval Gajendrakumar Arvindkumar | |
| 27 | Patel Vaibhav Ambalal | 1. |

SOMANY CERAMICS LIMITED

14, GIDC Industrial Estate, Kadi - 382 715. Gujarat Tel.: +91 - 2764 - 242153/154/630 Fax: +91 - 2764 - 263011 E-mail: adm.kadi@somanytiles.co.in Ahmedabad Office : 7 to 14, 4th Floor, Agrawal Mall, Opp. Sola Bhagwat Vidhyapeeth, S. G. Road, Sola, Ahmedabad-380060. Tel : 079-27661103, 66042500 to 599 Registered Office: 2 Red Cross Place, Kolkata, West Bengal, India - 700001. Tel : + 91 - 33 - 22487406/5913

| 28 | Patel Viralkumar Rajubhai | |
|----|-------------------------------|------------------|
| 29 | Jayswal Durvijay Sitaram | |
| 30 | Patel Kishankumar Jagdishbhai | |
| 31 | Patel Bhavikkumar Baldevbhai | |
| 32 | Sadhu Yogeshkumar Dharamdas | D MARL / CM |
| 33 | Patel Hardikkumar Ambalal | |
| 34 | Patel Ravikumar Bharatbhai | The Second State |

Students Learnt All Process Like Raw Material Testing, Sleep Making Process, Process Of Press, Glazing Process, Kiln Process And Quality Control Process Of Tiles Ware Production In Details. Students Have Also Get Detail Knowledge About ETP.

The Internship Duration Was From 6th February, 2018 To 22th February 2018.

We Wish Him All The Best In His Future Career Pursuits.

Regards,

For, Somany Ceramics Limited . Authorised Signatory

Attendance

| D | 2 | Curit | · · · | BSC SO | en-v c | | 2. V. PI | tel 2 |
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P.S.Science & H.D.Patel Arts College, Kadi.

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| | Class: B.S | c. SemV/VI | CHE > | Attendance | e 3 | 13- | Sub. 2 | | Y |
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| 14 | 135 | H. J. People | H J. Retel | H. J.Rufel | H.J. Rotel | H. J. Patel | H.J. Pettel | Ab | ł |
| .14 | 136 | H.N. Patel | H.V. Patel | H.V. Patel | H.V. Patel | H.V. Putel | H.V. Putel. | Ab | 2 |
| 10 | 137 | H.K. Pater | | Ab | H.K. Putel | H.K.Patest | A.h. | Ah | |
| 9 | 138 | A.b | Ratel: | Ratel | D.h | Flatel ~ | Platel. | Ab | |
| 12 | 139 | Forfestel. | Infuty | Tofate- | ob | Infeite | Forfeiter | Ab | |
| 14 | 140 | J. J. Patel | J.J. Rute | J. J. Putel | J. J. Retel | J. J. Parter | J.J.Rater | Ab | • |
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| 12 | 142 | Ab | | | | M B Patel. | M.B. Postel. | ASS | |
| 14 | 143 | NEitel " | Altel | | | Natel | Nater | Ab | |
| 16 | 144 | P.V. Patel | P.V. Patel | P.V. Putel | P.V. Patel | P.V.Patel | 12V. Patel | P.V.124K) | |
| 12 | 145 | STER. | DELECTION | Ab | Fridd | Aspital | Paratel | AL | |
| 11 | 146 | Prayented | prevented | pieuponlas) | Ab. | Pringundos | pringente | AL | |
| 14 | 147 | Creiter | Precter | A.b | Prester | Prutel | Pretel | Preitel | 1.00 |
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| 16 | 177 | C.P. Desai | C. P. Desui | c.P. Desai | - | | C.P. DESU | C.P. Desui |
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| 7 | 183 | Dh | Ashish | Ashira | ASABAC | Ah | Ah | Ab |
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