



NAAC REACCREDITED
'B' GRADE (2018-23)

Prof. Dr. N. S. Pawar
M.Sc, Ph.D.
Officiating Principal

S.S.V.P. Sanstha's

**Late S.D. Patil Alias Baburao Dada Arts, Commerce
and Late Bhausaheb M.D. Sisode Science College**

Shindkheda - 425406, Dist. Dhule (M.S.) Tel. : (02566) 222239

web : www.ssvpsacs.ac.in e-mail : ssvps.snk@gmail.com

Ref. No. ACS/SNK/ 202

Date : / / 202

Criterion 1

Curricular Aspect

1.3.2.1: Number of Students undertaking Project work/Field Work/Internships



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Declaration

This is to declare that the information, reports, true copies of supporting documents, numerical data etc. submitted/ presented in this file is verified by Internal Quality Assurance Cell (IQAC) and is correct as per records. This declaration is for the purpose of NAAC Accreditation of HEI for 4th cycle period 2018-19 to 2022-23.

Date:

Place:



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**Sample of Project work carried
out by students**

S. S. V. P. Sanstha's Late S. D. Patil Alia Baburao Dada Art's,
Commerce and Late Bhausahab M. D. Sisode Science College,
Shindkheda-425406

Department of Environment Studies

CERTIFICATE

This is to certify that Mr./ Miss Tanuja Ravindra Patil Class F.Y.B.Sc has satisfactorily carried out and complete project of field work in Environment studies laid down in the Regulation of Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon and that they have been examined and duly signed by the teacher in-charge.



Teacher In-charge




Co-ordinator



Date:

Place: shindkheda



PRINCIPAL
S.S.V.P.'s Late S.D. Patil alias
Baburao Dada Arts, Commerce &
Bhausahab M.D. Sisode Science
College, Shindkheda, Dist. Dhule

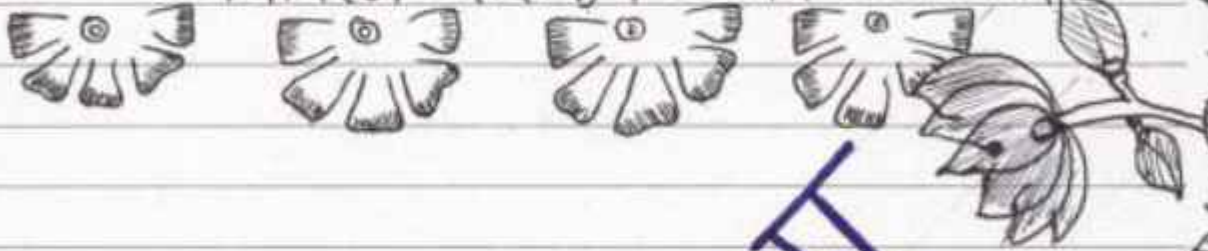


नाव :- तनुजा रविंद्र पाटील .

रोल नंबर :- 83

इयत्ता :- F.Y. BSC

पर्यावरण शिक्षक :- संदिप फाटोके सर



पर्यावरण





* प्रस्तावना *

जल प्रदूषण ही एक महत्त्वाची पर्यावरण-
-त्मक समस्या आहे. पृथ्वीवरील सजीवांच्या
अस्तित्वासाठी पाणी हे अतिशय भूमिका
बजावते. पाण्याला रसायनांचा राजा म्हणतात,
हे एक निसर्गातले आश्चर्य कारक रसायन
असून हजारो पदार्थांना स्वतः मध्ये सांभाळून
घेण्याचा वैशिष्ट्यामुळे त्याला वैश्विक द्रावण
(universal solvent) असे म्हटले जाते.

आज मानवासमोर अनेक मोठ-मोठ्या समस्या
आहेत. त्यापैकीच जलप्रदूषणही एक समस्या
दिवसांदिवस मोठ्या प्रमाणावर वाढत चालली
आहे. वेसुमार वाढत जाणाऱ्या लोकसंख्येला
पिण्यासाठी स्वच्छ पाण्याचा पुरवठा करणे अशक्य
होतांना दिसत आहे. आज विकसनशील देशा-
-तील लोकांना पाण्याच्या समस्येला मोठ्या
प्रमाणावर सामोरे आवे लागत आहे.

अविष्यात प्रत्येकाची पाण्याची गरज भागवण्या-
-साठी पाण्याचे योग्य ते व्यवस्थापन आत्ता
पासूनच करणे गरजेचे आहे. आज पाण्याच्या
व्यवस्थापनेचा विविध पद्धतीला अवलंबून
करून पाण्याची आता पासून बचत करणे
गरजेचे आहे. आज आपण या प्रक-
-ल्पाच्या माध्यमातून 'जलप्रदूषण'



या विषयाबाबत सविस्तर माहिती घेणार आहोत. 'पाणी' हा सर्व सज्जिवांना जगण्यास अत्यंत महत्त्वाचा घटक आहे. पाण्याला आपण जीवन मानतो.

एका माणसाला जगण्यासाठी दररोज 5 liter पाण्याची आवश्यकता असते. गेल्या 40 वर्षांचे जगामध्ये पाण्याचा वापर तिप्पट पटीने वाढला आहे.

40 वर्षांपूर्वी पेक्षा चालू काळात भारताची व जगाची लोकसंख्या जवळजवळ दुप्पट वाढली असून शेती, उद्योगधंदे, वसाहती मधून पाण्याचा वापर दिवसेंदिवस वाढत आहे. पण पाण्याचे प्रदूषण ही तितकेच वाढले आहे. पण पाण्याचे प्रदूषण ही वाढले आहे. त्यामुळे स्वच्छ व शुद्ध पाणी मिळणे आवश्यक असूनही अवघड आहे.

जेव्हा पाण्याची चव बदलते, पाण्यातील पारदर्शकता व तापमान बदलते व पाण्याच्या वासात बदल होतो, तेव्हा ते पाणी दुषित झाले आहे असे समजले जाते. ज्या पाण्यात हानीकारक बाह्य पदार्थ मिसळतात, ते पाणी विषारी अपाय कारक असते. अशा अस्वच्छ पाण्याला जलप्रदूषण म्हणतात.





* जलप्रदुषण प्रकल्पाची उद्दिष्टे *

- 1) पाण्याच्या प्रदुषणाबाबत अधिक माहिती जाणून घेणे.
- 2) पाण्याचे महत्त्व जाणून घेणे.
- 3) पाण्याच्या प्रदुषणास कारणीभूत स्रोतांचा अभ्यास व निरीक्षण करणे.
- 4) पाण्याच्या प्रदुषणाने होणाऱ्या घातक परिणामांचा अभ्यास करणे.
- 5) जलसंवर्धन आणि व्यवस्थापन पध्दतीचा अभ्यास करणे.
- 6) जलप्रदुषण कमी करण्याचा प्रयत्न करणे.
- 7) जलप्रदुषणामुळे कोणकोणत्या नैसर्गिक संसाधनांना हानी पोहचते याचा अभ्यास करणे.
- 8) मानवी कृती आणि अन्य कारणांमुळे पाण्याच्या नैसर्गिक गुणावत्तेत प्रत्यक्ष व अप्रत्यक्ष बदल होताना आणि त्यामुळे पाणी कोणत्याही कारणांसाठी वापरण्यास अयोग्य आहे.
- 9) शेतीमधून अधिक उत्पन्न व्हावे, यासाठी शेत जमिन रासायनिक खतांचा अधिक प्रमाणावर उपयोग केला जातो.
- 10) काही वेळा रासायनिक खतांतील उर्वरित भागाचा उपयोग शैवलांच्या पोषणासाठी होतो.





* जलप्रदुषण प्रकल्पाची कार्यपद्धती *

जलप्रदुषण म्हणजे पाण्याचे स्रोतांचे प्रदुषण जलप्रदुषण ही एक मानवनिर्मित समस्या आहे. हवा - पाणी अन्न या मानवांच्या तीन मुलभूत गरजांपैकी पाणी ही दुसऱ्या क्रमांकावरची गरज आहे. आपल्याला पाणी, शुद्ध, स्वच्छ मिळणे गरजेचे आहे. हे आरोग्याच्या दृष्टीने खूपच महत्त्वाचे आहे. प्रदूषित पाण्यामुळे विकार आणि इतर बरेचही रोग होतात. पाणी प्रदूषित होण्याचे अनेक बरेचही कारणे आहेत. आणि याला सर्वस्वी आपणच जबाबदार आहोत.

ही सर्व जगाला भेडसवणारी पयविरंतीय गंभीर समस्या आहेत. जलप्रदुषणामुळे पाण्यात विविध गुणधर्मांचे पदार्थ अशा प्रमाणात मिसळले की, त्यामुळे पाण्याच्या नैसर्गिक गुणवत्तेत बदल होऊन ते वापरण्यास अयोग्य ठरते. जलप्रदुषणामुळे संजीवाच्या आरोग्यावर परिणाम होतात किंवा पाण्याची चव बिगडते, ते घागेरडे होते. ते दुग्धीत होते, मानवी कृती आणि अन्य कारणांमुळे पाण्याच्या नैसर्गिक गुणवत्तेत अप्रत्यक्षपणे व प्रत्यक्षपणे बदल होतात आणि पाणी कोणत्याही कारणासाठी अयोग्य ठरते. याला दुषित असे पाणी म्हणतात.





पाण्याचे रासायनिक प्राकृतिक, जैविक गुणधर्म बदलते. मानव आणि जलीय सजीवांवर अपायकारक परिणाम करणारी जलप्रदूषण होऊन त्यांच्या मानव आणि इतर जीव यांच्यावर होतो.

जलप्रदूषण रोखण्यासाठी याची कारणे माहिती करणे घेणे आवश्यक आहे. व ती उपाय योजना करून त्यांची अंमलबजावणी करून योजली पाहिजे व या संबंधित कडक कायदे तयार करावे लागतील. इंग्लंड मधील (Water act) या कायद्याची अंमलबजावणी होणे आवश्यक आहे.

जगातील साधारण 25 टक्के लोकसंख्येला पिण्याचे शुद्ध पाणी मिळू शकत नाही. पाण्याच्या शुद्धीकरणासाठी क्लोरीनचा वापर सर्वाधिक केला जातो पण त्याने पाण्यातील सर्व प्रकारचे जंतु मरत नाही. त्यामुळे शुद्धीकरणासाठी अन्य पदार्थांचा वापर करावा लागतो.





* जल प्रदूषणावरील उपाय *

- 1) जलशुद्धीकरण करणे.
- 2) सांडपाणी व इतर रासायनिक प्रव्ये पाण्यात सोडल्याआधी योग्य त्या सर्व प्रक्रिया करून नंतर ते पाण्यात सोडणे.
- 3) पिण्यासाठी वापरल्या जाणाऱ्या पाण्याची योग्य त्यावेळी त्याचे निरीक्षण व योग्य त्या वेळी परिक्षण करून नंतर वापरावे.
- 4) किष्कनाशके व कवक नाशके या धोकादायक केमिकलांचा कमी प्रमाणावर वापर करणे किंवा यांचा वापर टाकावा.
- 5) कृत्रिम थप्तांचा वापर टाकावा व सेंद्रिय थप्तांचा वापर करावा.
- 6) थनिज तेलांमुळे होणाऱ्या जलप्रदूषणाच्या समस्येवर उपाय योजना करणे.
- 7) औद्योगिक प्रदूषणामुळे जलाशय किंवा समुद्रातील पाण्याचे तापमान 2°C पेक्षा अधिक वाढणार नाही याची अखर -दारी घेणे.





* जल प्रदूषणाची निरिक्षण *

1) औद्योगिक वसाहती व कारखान्यातील रासायनिक पदार्थ कोणत्याही प्रक्रिये विना नदी, नाले व इतर जलस्रोतांमध्ये सांडले जाते, त्यामुळे नदी व नाले प्रदूषित होतात.

2) रासायनिक प्रक्रिया केलेले पाणी पाण्यात मिसळल्याने पाण्यातील मासे मृत पावल्याने ते पाणी दुर्गंधित होते. व मोठ्या प्रदूषण होते.

जल प्रदूषणाचा शहरीकरण आणि शहरातील अपुरे सांडपाणी व्यवस्थापण हे महत्त्वाचे कारण आहे. तसेच रोमच्या वापरातील शहरी स्वच्छता आणि घराची स्वच्छता यासाठी वापरल्यात येणारी विविधता रसायने यांचा महत्त्वाचा भाग आहे. भाक्ष्यातील जल प्रदूषण घातकी वाढविण्यासाठी मुख्य कारण पुढीलप्रमाणे आहेत.

1) औद्योगिक कचरा निर्मितीची विल्हेवाट अभाव आणि त्याची आरोग्य विल्हेवाट.

2) शेती क्षेत्रात रासायनिकांचा वापर यासह आरोग्य शेती पद्धतीचा वापर.





3) मैदानी पठारातून जाल असलेली नद्यांची बुठावत्ता आणि पाण्याची बुठावत्ता.

4) जहाजामधून मोठ्या प्रमाणात तेल गळती.

5) सेंद्रिय पदार्थांचे विघटन होणे.

* रासायनिक कचरा *

औद्योगिक संस्थामधून उदयास येणारी रासायनिक पाणी प्रदुषणाचे मुख्य कारण आहे. आपल्या उद्योग व कारखान्यांमधून रासायनिक कचरा मुख्यता नद्या आणि तलावामध्ये टाकले जाते.

* कचरा *

आपल्या गावामध्ये वाहणाऱ्या नद्यांमध्ये हजारों कचरा आढळतात. शेतीमध्ये रासायनिक उर्वरके आणि इतर अनेक प्रकारचे औषधांचा वापर केला जातो. त्यामुळे मोठ्या प्रमाणावर रासायनिक कचरा होतो.

1) पाणी हा घटक सजीवांच्या जीवनातील अत्यंत महत्त्वाचा घटक आहे.





२) काही वेळेस महासागरामध्ये अत्यंत जास्त प्रमाणावर महासागरामध्ये कचरा होतो, त्यामुळे तेथील जलचरांवर खूप परिणाम तेथील जलचरांवर खूप परिणाम होतो. बरेचसे जीव आजारी पडतात तर काही मृत पावतात.

१) नैसर्गिक जलप्रदूषणाची कारणे :-
 पाऊस जर अतिप्रमाणात पडत असेल तर जलप्रदूषणाचा जास्त चातना मिळत असले. नद्या नाळे, त्यांच्या म्यादेपेक्षा जास्त प्रमाणावर पाणी पातळी वाढवतात. म्हणून मानवनिर्मित टाकाऊ कचरा ही पाठ्यात घेऊन वाहत आतात. व पाणी प्रदूषित करतात.

- २) मानवनिर्मित जलप्रदूषणाची कारणे :-
- १) वाढत्या लोकसंख्येमुळे पाठ्याचाही वापर मोठ्या प्रमाणावर वाढत चालला आहे व सांडपाणी वाढत चालले आहे.
 - २) मोठमोठ्या कारखान्यात पाठ्याचा मोठ्या प्रमाणावर वापर केला जातो. व त्या वापरामधून धोकादायक रसायन त्या प्रमाणात मिसळले जाते. व तसेच ते नदी नाल्यात सोडले. ज्याने - त्याने नद्या नाळे मोठ्या प्रमाणावर प्रदूषित होतात.
 - ३) वाढत्या लोकसंख्येमुळे व्वास्टिचही वापर मोठ्या प्रमाणावर केला जातो आहे.



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1	310547	2022015400161086	PAWAR KOMAL SANDIP	30	
2	310605	2022015400161071	BADGUJAR VAISHNAVI DHANRAJ	32	
3	310606	2022015400166741	PATIL SHRADDHA BHASKAR	32	
4	325551	2022015400161063	BACHHAV GAURAV PREMCHAND	30	
5	325552	2022015400148124	BADAWANE SARASWATI NAGNATH	34	
6	325553	2022015400151915	BAGUL BHAGYASHRI NANDLAL	34	
7	325554	2022015400148155	BEHERE ROHAN DADABHAI	32	
8	325555	2022015400160117	BHADANE ISHVAR DATTU	30	
9	325556	2022015400160125	BHADANE MANOHAR ADHIKAR	32	
10	325557	2022015400149472	BHAMARE SAURASH GORAKH	29	
11	325558	2022015400189902	BHOI LALITA SATISH	34	
12	325559	2022015400151792	BIRHADE PUNAM RAVINDRA	32	
13	325560	2022015400149425	BORASE AMOL DNYANESHWAR	30	
14	325561	2022015400183816	BORASE KOMAL SHARAD	32	
15	325562	2022015400149514	BORASE VISHAL PRAMOD	28	
16	325563	2022015400189925	BORSE PRATIK PRADIP	28	
17	325564	2022015400158923	CHAUDHARI HARISH VITTHAL	26	
18	325565	2022015400158942	CHAUDHARI SAHIL PRAVIN	30	
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21	325568	2022015400158934	CHAVHAN NILESH RAMESH	26	
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23	325570	2022015400159002	DESALE CHAJTRALI BANSILAL	32	
24	325571	2022015400159876	DESALE DHANASHRI SHYAM	34	
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27	325574	2022015400144207	DESALE VAIBHAV SUNIL	26	
28	325575	2022015400158993	DESALE VAISHNAVI SHARAD	30	

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57	325604	2022015400158881	GIRASE PUSHPA RAJESING	34	
58	325605	2022015400183797	GIRASE RENUKA RAVINDRASING	32	
59	325606	2022015400261404	GIRASE SHUBHAM BHAVSING	26	
60	325607	2022015400158857	GIRASE SUGDHA MAHENDRASING	28	
61	325608	2022015400149506	GIRASE VAIBHAV DNYANESHWAR	26	
62	325609	2022015400194965	GIRASE YUVRAJ PADAMSING	28	
63	325610	2022015400274784	HARSHAL DEVIDAS TAWADE	30	
64	325611	2022015400144246	ISHI MEGHA MANOHAR	32	
65	325612	2022015400144196	ISHI TEJASVINI MANOHAR	32	
66	325613	2022015400166764	ISHI TUSHAR EAKNATH	32	
67	325614	2022015400159903	JADHAV ANUSHKA BABURAO	34	
68	325615	2022015400158977	JADHAV HARSHADA GOPAL	30	
69	325616	2022015400151857	JAGATAP DEEPAI PRABHAKAR	28	
70	325617	2022015400141967	JAGATAP HEMANGI PRABHAKARARAO	30	
71	325618	2022015400202402	KANKHARE TANUSHRI NARENDRA	32	
72	325619	2022015400176782	KAPADANE MOHINI GULAB	30	
73	325620	2022015400189641	KHAIRNAR DIPTI SANJAY	30	
74	325621	2022015400148236	KHAIRNAR KARINA DNYANESHWAR	32	
75	325622	2022015400170313	KHALANE PREMRAJ RAJENDRA	30	
76	325623	2022015400151907	KOLI DNYANESHWAR BALKRUSHNA	30	
77	325624	2022015400153632	KOLI NILESH RAJENDRA	32	
78	325625	2022015400183782	KOLI PRIYANKA RAVINDRA	32	
79	325626	2022015400151896	KOLI ROSHANI SUDAM	30	
80	325627	2022015400202425	MAHAJAN ROSHANI BHASKAR	32	
81	325628	2022015400151826	MAHALE HEMANGI DINESH	30	
82	325629	2022015400189794	MALI ASHWINI RAMESH	30	
83	325630	2022015400166756	MALI CHETAN PUNDALIK	30	
84	325631	2022015400144254	MALI KAJAL RAGHUNATH	32	

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Sr. No.	Seat Number	PRN	Student Name	Marks	Total
113	325660	2022015400140593	PATIL DIVYA GANESH	28	
114	325661	2022015400189867	PATIL DIVYA GOVIND	30	
115	325662	2022015400158915	PATIL GAURE SANJAY	32	
116	325663	2022015400202456	PATIL GOPAL RAVINDRA	30	
117	325664	2022015400133515	PATIL HARSHADA ANANDRAO	28	
118	325665	2022015400184085	PATIL HEMKANT NIMBA	28	
119	325666	2022015400202441	PATIL JAYASHRI GULABRAO	30	
120	325667	2022015400151946	PATIL KALYANI AMRUT	32	
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122	325669	2022015400148221	PATIL KOMAL UJVAL	32	
123	325670	2022015400154121	PATIL KULDIP RAJESH	34	
124	325671	2022015400144181	PATIL MADHURI ARUN	32	
125	325672	2022015400189771	PATIL MRUNALI SACHIN	32	
126	325673	2022015400183766	PATIL NEHA SHANKAR	30	
127	325674	2022015400153624	PATIL NISHA SURESH	28	
128	325675	2022015400170294	PATIL POOJA TUKARAM	30	
129	325676	2022015400189813	PATIL PRACHI PRAVIN	28	
130	325677	2022015400176751	PATIL PUJA TRYAMBAK	28	
131	325678	2022015400189891	PATIL RAJASHREE ASHOK	30	
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133	325680	2022015400176816	PATIL ROHINEE DNYANESHVAR	28	
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138	325685	2022015400148252	PATIL SIMA ANKUSH	30	
139	325686	2022015400159025	PATIL SWATI SHARAD	32	
140	325687	2022015400194581	PATIL TANUJA RAVINDRA	28	

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169	325716	2022015400184031	TIRMALE SNEHA PRAKASH	28	
170	325717	2022015400159017	VALHE NIKITA KISHOR	30	
171	325718	2022015400154105	WADILE HARSHADA SHEVDAS	28	
172	325719	2022015400157193	WAGH ASHWINI SANJAY	32	
173	325720	2022015400140643	WAGH JANHAVI SUDHAKAR	32	
174	325721	2022015400183832	WAGH MAYUR DHANRAJ	28	
175	326404	2022015400158865	GIRASE ROSHANI RAJENDRA	32	
176	326414	2022015400160052	THAKARE VISHAL NARAYAN	26	

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DEPARTMETN OF PHYSICS
A PROJECT REPORT
ON



**“AUTOMATIC CONTROL
OF STREET LIGHT”**

GUIDED BY

Prof. Dr. S.V.Borase

SUBMITTED BY

Bagul Palak Somanath

North Maharashtra University, Jalgaon

Year: - 2022-2023



**S.S.V.P.S ARTS, COMMERCE
AND M.D.SISODE SCIENCE COLLEGE
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CERTIFICATE

This is to certify that Mrs. **Bagul Palak Somanath**
(Roll No.55) have successfully completed the seminar work entitle...

**“AUTOMATIC CONTROL
OF STREET LIGHT”**

In the college premises during the academic year 2022-2023. He
has submitted his project report in the partial fulfillment for the
award of Third year Bachelor in Science (Physics) under
North Maharashtra University, Jalgaon.


Prof. Dr. S.V. Borase

(Guide)


IQAC Co-ordinator

S.S.V.P.S Arts, Commerce
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Prof. Dr. S.V. Borase

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Mrs. Bagul Palak Somanath

T.Y.B.Sc (Physics)

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INTRODUCTION

The most important role in over all life automatic every field of electricity but this electricity is not properly used. It is possible to save labour charge, to obtain more accuracy and to save many money and time at every night pourche light, street light are switched ON and at every morning they are switched OFF also for this purpose labours are placed by payment many time the labours forget switch ON and switch OFF the lamp, due to this many energy loss and increase the cost of bill.

By considering this point here make a project automatic street light these light automatically switched ON the supply of lamp at higher and switched OFF the supply day the circuit constructed around the famillier IC-555 and for switching the supply relay use the circuit has low cost, low maintainance, low energy consumptions and easy to repair and assemble there is no complicated wiring.

LIST OF COMPONENTS

1. Resistors :

$$R_1 = 10 \text{ k}\Omega$$

$$R_2 = 100 \text{ k}\Omega$$

$$R_3 = 1 \text{ k}\Omega$$

2. Transistor :

$$Q_1 = \text{BN3055}$$

3. Capacitors :

$$C_1 = 1000 \mu\text{f}/16\text{V}$$

$$C_2 = 0.01 \mu\text{f}$$

4. Diodes :

$$D_1 \text{ to } D_4 = 1\text{n } 4007$$

$$D_5 = \text{Photodiode}$$

5. Integrated Circuit : (IC) = Timer NE 555

6. Others :

a) $X_1 = 606$ (500 mA) Step down transformer

b) $RL_1 = 3\text{V}, 100\Omega$, SPDT, electromagnetic relay

c) Holder, AC wire, Stand, Screwnut, Acrylic, Plastic Stand, Copper Clad etc.

TIMER IC 555

It is linear IC. It is named as SE/NE 555

SE 555:- for temp range of -55°C to 125°C

NE 555:- for temp range of 0°C to 70°C

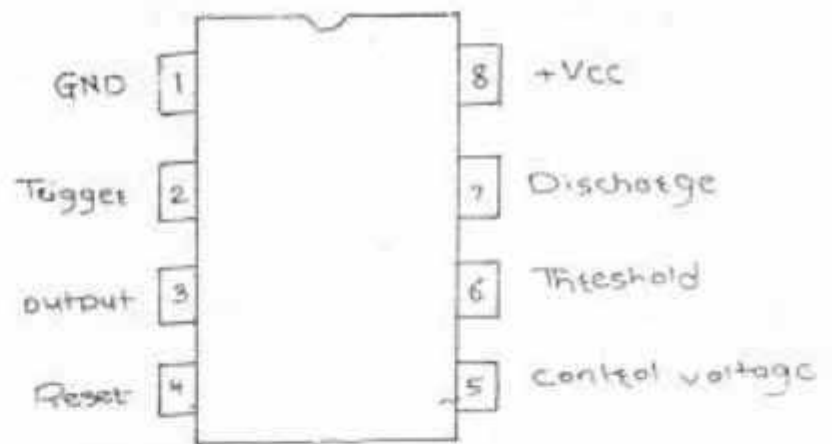
Application :- monostable , astable multivibrator DC to DC converter, waveform generator, analog frequency meter , temp. measurement and control burglar alarms etc.

It is available in 8 pin metal can or 8 pin DIP

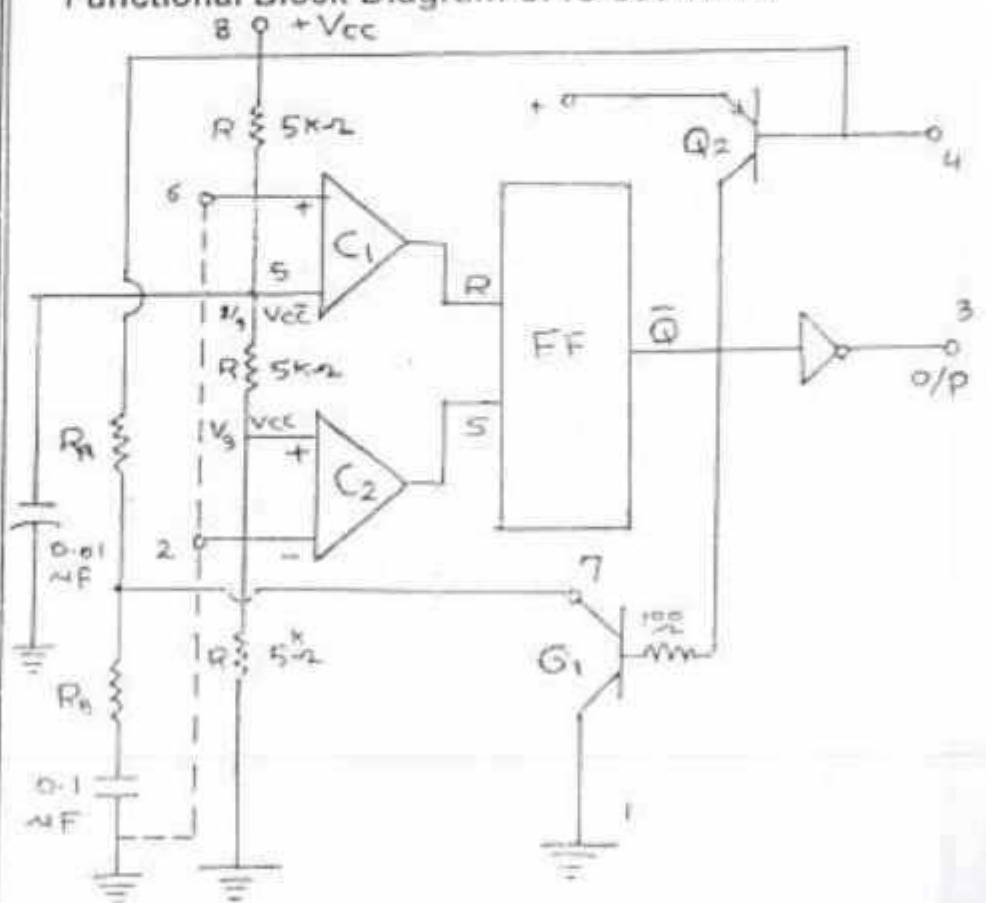
Features of 555 timer :-

- 1) The supply voltage range between +5V to +18V
- 2) Adjustable duty cycle
- 3) Timing from micro second to hour
- 4) high current O/P
- 5) capacity to source or sink current is of 200 MA
- 6) O/P can drying temp stability is 50 ppm $^{\circ}\text{C}$
- 7) Reliable easy to use & low cost

Pin Configuration of SE/ NE 555 Timer



Functional Block Diagram of IC 555 Timer



IC 555 Consist of two comparatores C1 and C2 their O/P become reset (R) and set (S) terminals of a flip flop (FF) respectively this in turn control ON & OFF of discharge transistor Q1

When Q1 is OFF, C charges

When Q1 is ON, C discharges

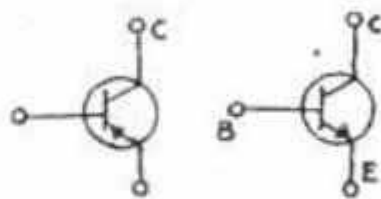
Where c is connected between discharge terminal & ground.

The comparator reference voltages are fixed at $\frac{2}{3} V_{cc}$ for comparator C1 and $\frac{1}{3} V_{cc}$ for comparator C2 ,by means of voltage divider which is made up of three 5 k ohm series resistor (R) hence the name 555.

These reference voltage are required to control the timing the timing can be control by applying the voltage to the control voltage terminal (5) if no such control is requied then the control voltage terminal is connected to ground through the bypass capacitor & it's value is 0.01 micro F

TRANSISTOR

A transistor consists of two pn junctions, formed by sandwiching either p-type or n-type semiconductor between a pair of opposite types.



The transistor has three terminals (i) Emitter (E) (ii) Collector (C) (iii) Base. (B)

- (i) **Emitter** : The emitter is always forward biased with respect to base, so that it emits charges & hence called as emitter.
- (ii) **Collector** : The section on the other side that collects charges is collector. The collector is always reverse biased.
- (iii) **Base** : The middle section which forms two pn junctions between emitter and collector is base. The base emitter junction is forward biased. The base collector junction is reverse biased.

There are three configuration in which a transistor can be operated .,

- (i) Common base configuration
- (ii) Common emitter configuration.
- (iii) Common collector configuration.

RESISTORS

Introduction : Individual components which make an electronic circuit are called circuit elements or parameters. Most commonly used circuit elements in such circuits are resistors, inductors and capacitors. In resistors current is directly proportional to the applied voltage. In case of inductors the voltage required is directly proportional to the rate of change of current whereas capacitors require current which is directly proportional to the rate of change of voltage. Resistors are circuit elements having the function of introducing electrical resistance into the circuit. It is probably the most common component in all kinds of electronic equipment ranging from tiny pocket radio to a colour television receiver. It opposes the flow of current through it.

General Information : There are different types of resistors available for circuit design. However the symbol used to represent the resistance is shown in Fig.

bands out of which the first three colour bands give the value of the resistor. The colours used with the code and the numbers they represent are given in Table.

Colour	Significant digit	Multiplier	Tolerance
Black	0	1	
Brown	1	10	
Red	2	100	
Orange	3	1000	
Yellow	4	10000	
Green	5	100000	
Blue	6	1000000	
Violet	7	10000000	
Grey	8	100000000	
White	9	1000000000	
Gold	-	-	$\pm 5\%$
Silver	-	-	$\pm 10\%$
No colour	-	-	$\pm 20\%$

Colour code for resistors

Reading left to right, starting with the band nearest one end, the first two bands give two digits in the resistance value, the third band indicates the number of following zeros and the fourth band indicates the tolerance. This basic code originally called the RMA (Radio Manufacturers Association) code is now called the EIA/MIL (Electronic Industries Association/Military). As shown in Fig. starting from left to right, the colour bands are interpreted as follows

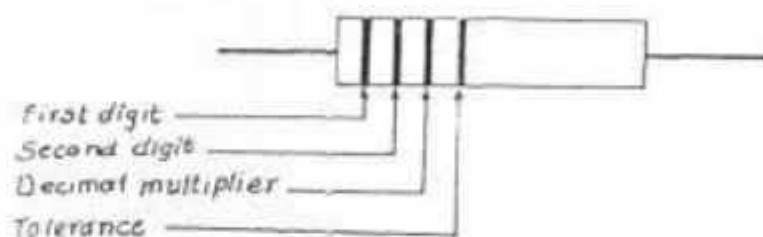


Fig - Colour code for resistors

If there are three bands only then the first three colour bands represents the resistance value as per the colour code; the absence of fourth band means a resistance tolerance of $\pm 20\%$.

If there are four bands, as before the first three bands give resistance value and fourth one gives tolerance. Thus if the fourth band is gold ring, it means a tolerance of $\pm 5\%$ whereas a further silver ring means a resistance tolerance of $\pm 10\%$. If there are five bands, then the first three bands as usual

give resistance value, fourth one gives tolerance and the fifth one indicates reliability level or failure rate for which colour code is .

Brown	$\approx 1\%$
Red	$\approx 0.1\%$
Orange	$\approx 0.01\%$
Yellow	$\approx 0.001\%$

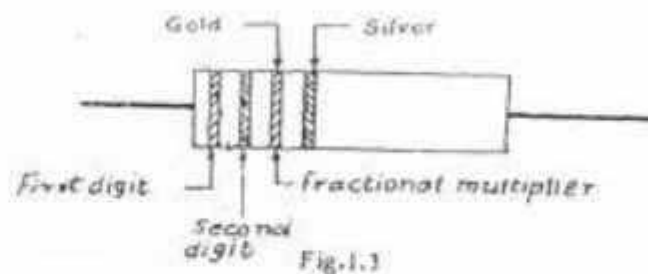


Fig. Resistor under 10 ohm

Resistor Types : There are mainly basic configurations:

- Fixed resistors.
- Rheostats.
- Potentiometers.

(a) Fixed resistor : There are three basic types of fixed resistors. They are as follows :

- Carbon composition resistors.
- Wire-wound resistors.
- Metal film resistors.

i) **Carbon composition resistors** : Moulded fixed composition resistors are intended for general purpose use in electronic equipment and are unequalled for uniformity predictable performance, and freedom from catastrophic failure. They are able to withstand higher voltage than film resistors of standard configuration, have very low inductance and capacitance, can tolerate rough handling during installation and are inexpensive (cheap).

The resistive element in a carbon composition resistor is a solid rod with leads on the ends. Its construction is shown in Fig (a) and 1 watt resistor is shown full size in Fig.

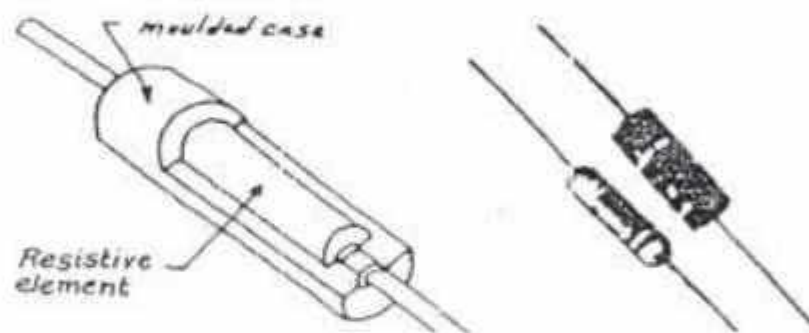


Fig. - Carbon composition resistor

The material is a mixture of finely ground carbon or graphite, an inert non-conducting filler, usually silica and a synthetic resin binder. The mix of carbon and filler is adjusted to produce different resistances. More the carbon, the lower the

resistance. A charge of this mixture plus leads and insulating material is compressed and bonded under pressure and is then cured in a controlled bake cycle. The resistor is then vacuum-impregnated with a sealant to provide a barrier to moisture penetration.

ii) **Wire-Wound resistors** : Most wire-wound resistors are wound with single layer spiral element of high resistance wire. They are constructed from a long fine wire, usually nickel chromium, wound on a ceramic core. Non inductive varieties and multilayer bobbin wound resistors are also made. The fragile windings are protected against mechanical and environmental hazards by dipped, sprayed, moulded or rigid covers of high temperature silicone, inorganic cement, vitreous enamel plastic or ceramic materials. Fig.(a) shows its construction and Fig. (b) shows actual size (1 W). These resistors vary in size according to power ratings. There also can be different size for the same power rating between classes of wire wound resistors; difference increases with power rating.

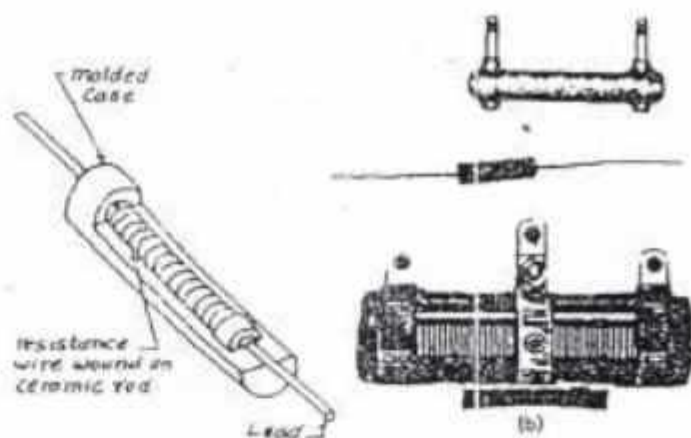
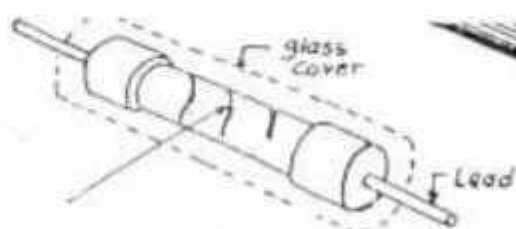


Fig. - Wire-wound resistors

iii) Film resistors : In all film resistors the element is a thin layer of resistive material applied to the surface of a ceramic or glass rod or tube. The resistive material can be a carbon dispersion, deposited carbon, tin oxide or any of several metals. Depending on the material the film may be formed by spraying, dipping, evaporation, sputtering or pyrolytic cracking of gas. Resistance is dependent on the choice of material and the thickness of the coating. The construction of such a type is shown in Fig.



Before encapsulation all except low value film resistors are adjusted to final resistance by spiralling, which means cutting a helical groove around the

cylinder which simultaneously increases the length of the resistive path between end terminals and reduces the width of the path.

(a) **Carbon film resistors** : Pure carbon can be deposited onto a ceramic rod by the high temperature thermal decomposition of gaseous hydrocarbons. Careful control of thickness can produce a wide range of resistances. It is possible to manufacture deposited carbon resistors upto around 1000 ohms without spiralling. Table 1.3 gives its specifications while Fig. shows a typical (1 W) epoxy conformal coated carbon film resistor. The big advantage of a carbon film resistor over a carbon composition is better stability.



Fig.- Carbon film resistor

(b) **Metal film resistors** : The development of precision deposited metal film resistors had the objectives of incorporating the advantages of both deposited carbon resistors and precision wire wound resistors without incurring the inherent disadvantages of either. These metal film resistors are used in applications that require a combination of long life under load and the best possible reliability and stability.

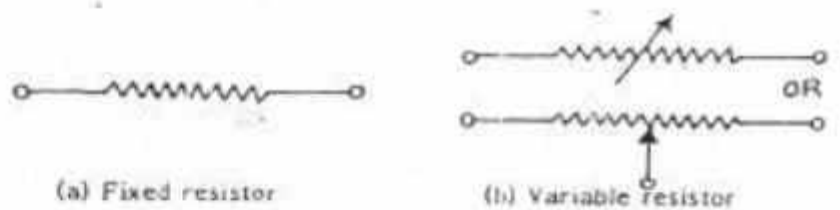


Fig - Symbol

The resistors are grouped into three categories : (a) fixed resistors, (b) variable resistor as potentiometer and (c) rheostat. In Fig (a), a symbol to represent fixed resistor is shown and in Fig. (b) a symbol to represent variable resistor is shown.

A fixed resistor is a two-terminal resistor whose electrical resistance is constant. A rheostat is a resistor that can be changed in resistance value without opening the circuit to make adjustment.

Resistor colour code : Most fixed resistors are piece-marked in several ways - colour coding, straight numerical value, easily translated numerical codes and one numerical code that is incomprehensible without a cheat-sheet. All the carbon composition resistors are colour-coded to indicate their resistance in ohms. The system is based on the use of colour bands, painted on the body of the resistors, as numerical values. Each colour band stands for a digit. Generally there are four bands which indicates the value of that resistor. Some manufacturers use five

a movable tap can be made to slide along the element, varying the resistance between the tap terminal and the end terminals. These are the resistors whose resistance can be changed between zero and a certain maximum value.

i) Potentiometers : These are variable resistors either of carbon or wire-wound type often used for controlling voltage and current in circuit. They are made in many styles in commercial industrial and military grades; in non precision and precision tolerance. They may be in one turn and multi-turn styles. Most types can be ganged and have auxiliary switches added. Some types can be ganged in pairs with concentric shafts or independent control of the two potentiometers.

(a) Carbon composition potentiometers : Most of these pots are used in radios and electronic circuits (power supplies) for controlling volume or voltages. They are made in commercial industrial and military grades. They may be single or ganged type. They are also available as modular potentiometer. These potentiometers are shown in Fig (a) and (b). The resistive elements are made in two ways: (i) coated film and (ii) moulded. In coated film type, a mixture of carbon filler and binder is coated on a

ring of insulating material (Bakelite). The surface of the film is processed to minimise abrasion of the film by sliding contact tap. The contact is brass or phosphor bronze, spring loaded against the element. In the moulded type, the carbon composition mix is moulded into a cavity in a plastic base. In these potentiometers, the moving tap is a carbon brush, giving carbon to carbon contact. These potentiometers are generally totally enclosed and sealed against moisture and other environmental contamination. They are widely used in test equipment, computers, servo systems, and other military and industrial applications.

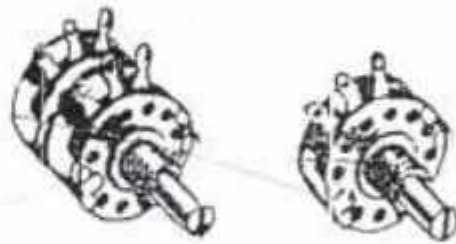


Fig. (a) - Single and ganged carbon composition potentiometer

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 - K. W. Khatavkar
2. Basic Electronics
 - B. L. Theraja
3. Digital Principles & Applications
 - Albert Paul Malvino
4. Principles of Electronics
 - V. K. Mehta

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A Short Research Project Report

Entitled

**“SYNTHESIS CHARACTERIZATION AND BIOLOGICAL
EVALUATION CHALCONE AND THEIR DERIVATIVES”**

Submitted to



KAVITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON

FOR THE FULFILLMENT OF DEGREE OF

MASTER OF SCIENCE

IN

ORGANIC CHEMISTRY

BY

MR. HANSRAJ JITENDRASING RAJPUT

UNDER THE GUIDANCE OF

Dr. J.N.BORASE

NAAC “B” and College with
Potential for Excellence by UGC

DEPARTMENT OF CHEMISTRY

S.S.V.P.S Santha's

**Late S.D.Patil Alias Baburao Dada Arts, Commerce &
Late Bhausaheb M.D.Sisode Science College, Shindkheda**

May- 2023

DECLARATION

We hereby declare that the M.Sc.II (Organic Chemistry) Research Project entitled **"SYNTHESIS CHARACTERIZATION AND BIOLOGICAL EVALUATION CHALCONE AND THEIR DERIVATIVES"** has been completed and written by our self.

Place: SHINDKHEDA

Date: / /2023

Miss. Puja Dnyaneshwar Patil

Miss. Mayuri Yadavrao Salunke

Miss. Ashwini Sanjay Borse

Miss. Patil Jaya Namdev

CERTIFICATE

This is certify that the project report on, "Synthesis Characterization, Biological Evaluation of Chalcones and their Derivatives" has been submitted by **Miss. Puja Dnyaneshwar patil** in fulfillment of degree of Master of Science in Organic Chemistry under our guidance and supervision of Department of chemistry, under the aegis of **Kaviyitri Bahinabai Chaudhari North Maharashtra University, Jalgaon**. During the academic year **2022-2023**.

The material that has been obtained from other sources has been duly acknowledged in the report.


Dr. J. N. Borase
[Project Guide]


Dr. S.S. Patole
[Assistant Professor]


Prof. S.S. Sauer
Head & Associate Professor
Department of chemistry


[Internal Examiner]


[External Examiner]

Acknowledgement

At the outset, we have immense pleasure in expressing our whole hearted sense of gratitude and indebtedness towards my guide **Dr. J. N. Borase** and **Prof. S. S.Saner** Head of Department of Chemistry (S.S.V.P.S Arts, Commerce & Science College Shindkheda) for his scholastic guidance keen and unfailing interest, constant encouragement, and **Hon. Principal Dr. T.M.Patil** for providing the necessary laboratory facilities.

Our special thanks and indebtedness goes to **Dr. S. S. Patole** and **Dr.P.R.Patil** for his invincible love and affection and sincere advice till the completion of this project work.

We would like to our special thanks towards **M.J. College Jalgaon** for IR analysis for spectroscopic data and Microbiological activity from **R.C.Patel College Shirpur**.

We shall appreciate for the kind help and co-operation received from **Mr. Keshe Sir, Miss. Dusane & Miss. Rajvi Patil Madam** we can never forget our teachers.

Lastly we have a deep sense of gratitude for our parents for co-operation and moral support. Finally I would like to sincerely thank you for the Incharge of Laboratory who have directly or indirectly help me to complete this project.

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6.	Result and Discussion Result table IR spectral data of compound	20
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Abstract

Chalcones are one of the significant classes of a natural product that are open chain flavonoids, chemically 1,3-diphenyl-2-propene-1-one in which two aromatic rings are connected by a three carbon α , β unsaturated carbonyl framework. The name of chalcone is invented by two scientists Kostanecki and Tambor. There is growing interest in the pharmacological potential of natural products is chalcones constitute an important group of natural products .The presence of a reactive α , β unsaturated keto function in chalcones is found to be responsible for their antimicrobial activity Chalcones were synthesized by the condensation of substituted benzaldehyde and acetophenone then the product obtained were allow to react with urea ,thiourea and phenyl hydrazine to give the heterocyclic derivative of oxazine, thiazine and isoxazole respectively.

The final product has been characterized by elemental analysis I.R. and also screening for Anti-microbiological activity that is Anti-bacterial and Anti-fungal activity.

Keywords: Heterocyclic Chalcones, FT-IR, Antibacterial, Urea, Thiourea.

Introduction

Chalcones are natural or synthetic molecule acquires a broad range of biological activities such as anticancer, antimicrobial activity, antimitotic activity, anti proliferative activity, antidiabetic activity, and antioxidant activity.

A number of chalcones having hydroxy, alkoxy groups in different position have been reported to possess anti-bacterial, antiulcer, antifungal, antioxidant, antimitotic, antimalarial and inhibition of chemical mediators release, inhibition of leukotriene, inhibition of tyrosinase and inhibition of aldose reductase activities. Appreciation of these findings motivated us to synthesize chalcones as a potential template for antimicrobial agents. It must be noted that this scaffold provides substitution pattern on benzyliden acetophenones nucleus.

Chalcones are α , β -unsaturated ketones containing the reactive ketoethylenic group $-\text{CO}-\text{CH}=\text{CH}-$. The presence of α , β unsaturated carbonyl system in chalcone make it biological active. Some substituted chalcone and their derivative have been reported to possess some interesting biological properties such as *antibacterial*, *antifungal*, *insecticidal*², *anaesthetic*³, *analgesic*, *ulcerogenic etc.*

Chalcone are natural occurring compound found in various plant species like Angelica, glycyrrhizin, humulus. Which are widely used as traditional folk remedies. Chalcone were prepared by condensation of acetophenone with aromatic aldehyde in presence of suitable condensing agent^{4,5}. they undergo a variety of chemical reaction that leads to many heterocyclic compound³⁻⁶ chalcone have been used as intermediate for the preparation of compound having therapeutic value^{6,7,8}.

In the view of the varied biological and pharmacological application, we have planned to synthesize. Some heterocyclic derivatives of chalcone and test their antibacterial activity. Newly the bis a heterocyclic compound of different ring with different heteroatom has accept a great deal of observation because of have compounds for main chain polymers are have many Biologically active natural and industrial chemical production and molecular similarity⁽⁹⁻¹¹⁾.

The Heteroatoms in there structure such as (S, N, O) explain variety applications in the biological engineering and there other filed of their specific structures⁽¹²⁾. pyrozone have played a crucial part in the development of theory in heterocyclic chemistry and also used extensively in organic synthesis.

Among the method employed in synthesis of variety of substituted chalcone with hydrazine and its derivative is commonly used⁽¹³⁾ pyrimidine derivative occupy and important place in the present day therapeutic.

Synthesis for chalcone is the clausiusclaisen Schmidt condensation of an appropriated acetophenone with benzaldehyde in presence of aqueous base like NaOH^(14, 15) KOH⁽¹⁶⁾, Ba (OH)₂^(17, 18) etc. we have opted environmentally being, non toxic and to boiling ethanol for all the cases studied. Structures of all the new compound 3(a-t) were unambiguously confirmed by I.R, ¹H-NMR, ¹³C NMR & MS. Chalcone analogous in which one of the phenyl ring is replaced by heterocyclic ring were prepared by the Claisen Schmidt condensation of an appropriated aldehyde with convenient methyl ketone, using methanol or ethanol as solvent and sodium hydroxide as base.

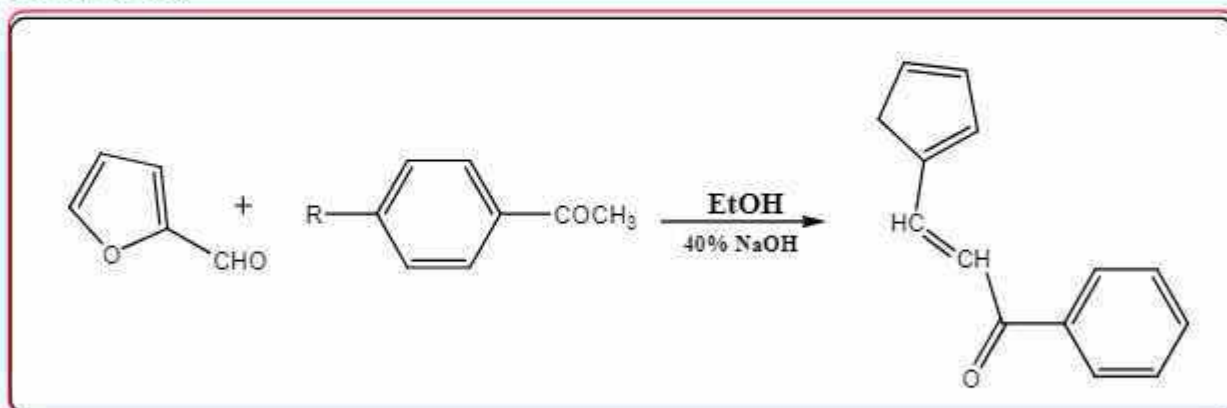
The resulting chalcones after purification and characterization by physical and spectral method have been successfully converted into substituted pyrimidiens by reaction with guanidine hydrochloride⁽¹⁹⁻²¹⁾.

The reactivity α , β -unsaturated carbonyl framework in Michael-type reactions relies upon the substitution design and normally taking place chalcones typically convey hydroxyl or methoxy groups connected to aromatic ring framework natural products may assist the detection of bioactive lead compound for treating oxidative and inflammatory diseases.

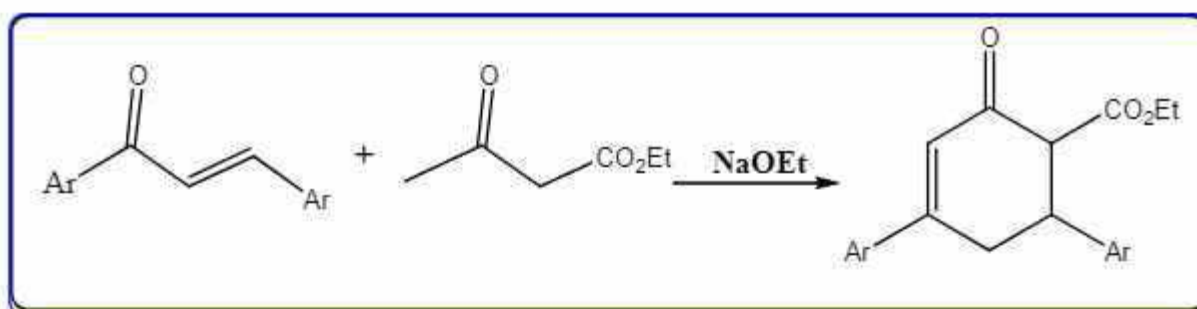
Literature of Review

There have been several practically significant routes to synthesized chalcones.

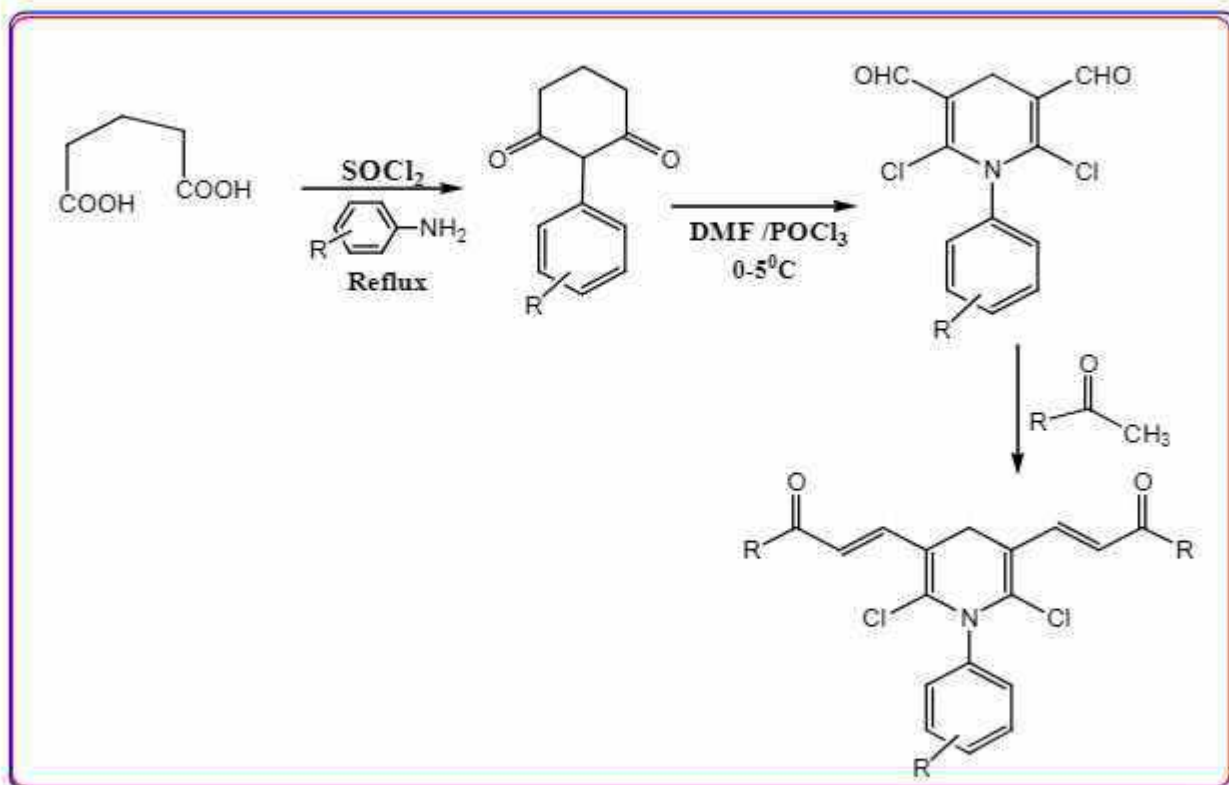
- 1.1) Joshi VD et al. settled course for the combination of substituted chalcones was accounted from chalcones by Claisen-Schmidth buildup of aldehyde, acetophenone and hydroxylamine hydrochloride.



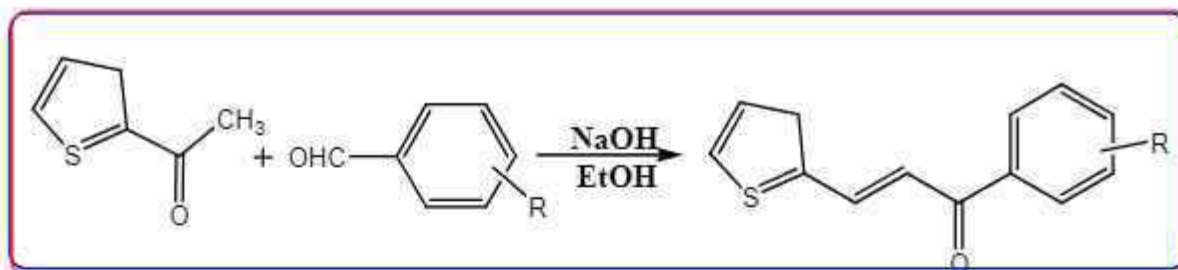
- 1.2) Padmavati V, et al. reported the convenient technique for a combination of substituted isoxazole in which knovenagel condensation of ethyl acetoacetate and 1, 3 diaryl-2-propene-1-ones accompanied in the presence of sodium ethoxide.



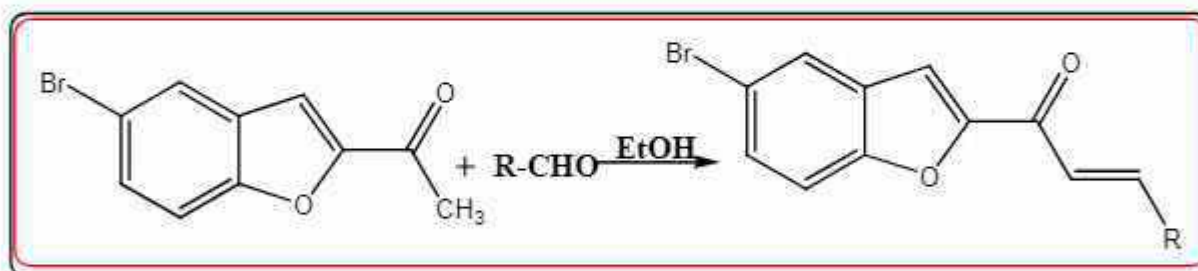
- 1.3) Rajput AP, et al. has suggested glutaric acid treated with aromatic amine with cyclic imides were gives N-substituted phenyl glutarimide and these diformylated by vilsmere-Haack reaction managed dihalovinyl aldehyde. The halovinyl aldehyde on condensation with acetophenone gives chalcones.



1.4) Gautam KC, et al. which was reported an advantageous path for the substituted isoxazole is accompanied by refluxing hydroxylamine hydrochloride with chalcone in presence of ethanolic solvent.



1.5) Tirlapur V, et al. accounted for the reaction of 5-bromo-2-acetyl benzofuran with different aromatic aldehyde in presence of soluble base gives chalcones.



MATERIALS AND METHODS:

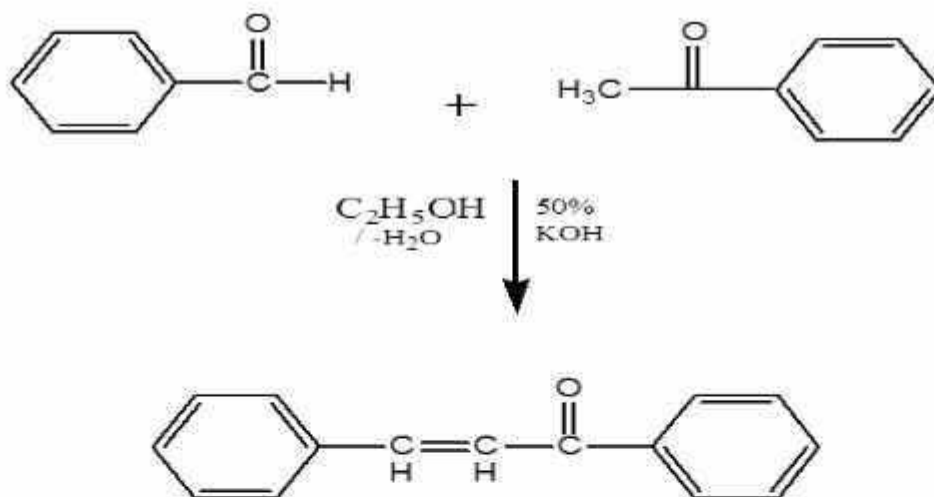
Part A

Experimental Procedure of Synthesis of Heterocyclic Chalcones

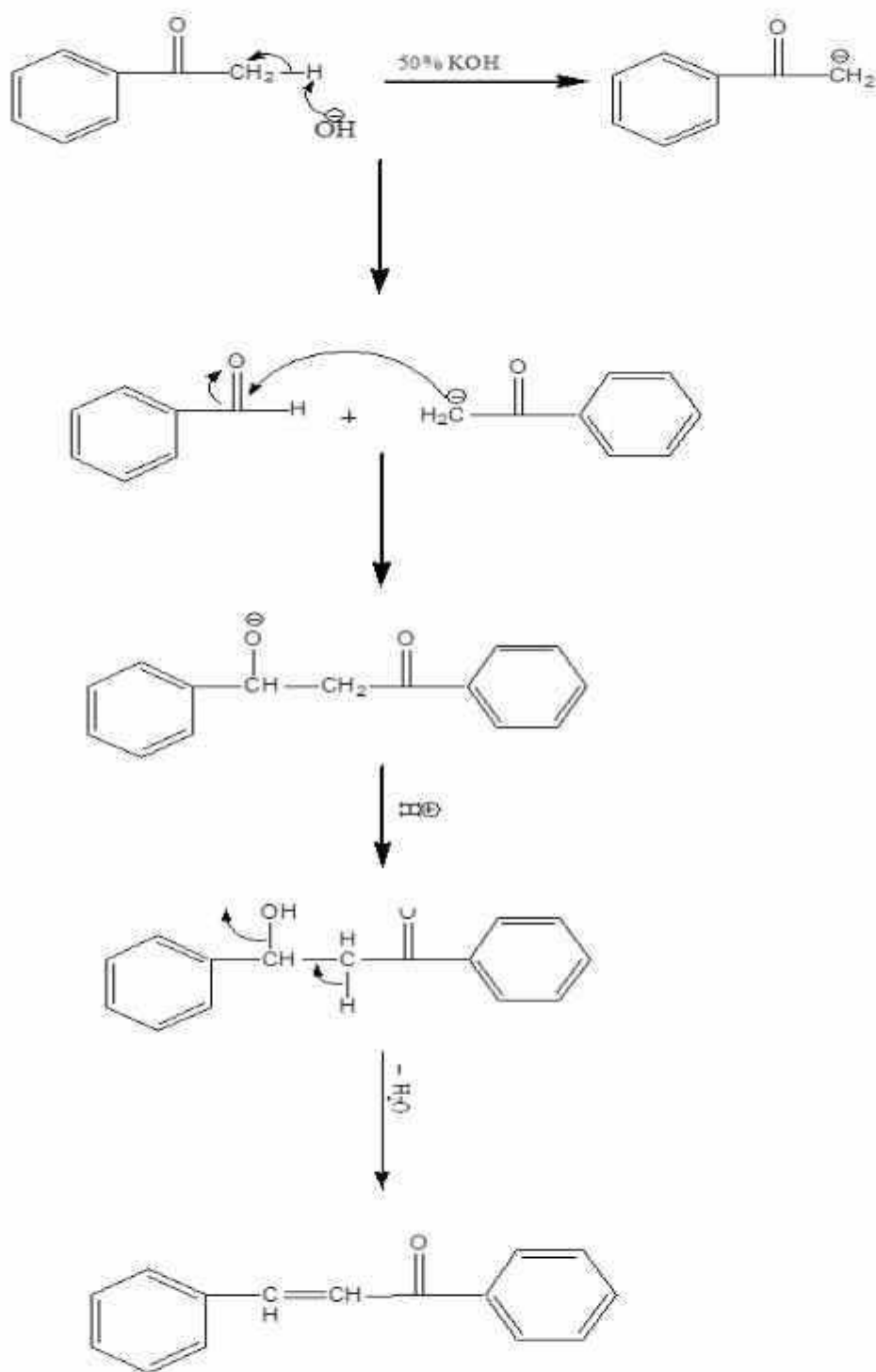
1) Preparation of Chalcones

The mixtures of CH_3COPh and PhCHO dissolved in ethanol in 100ml conical flask. Then mixture was stirring with magnetic stirrer and 50% of KOH (15ml) added drop wise into it. The mixture stirred at room temperature until solidification. After completion of reaction (monitored by TLC) mixture poured into ice water then acidified with 10% HCl solution in cold condition. The solid obtained filtered. If product was not obtained then kept reaction mixtures in refrigerator for 24hr. The synthesized products were isolated, filter and washed with water, dried and recrystallized from ethanol.

General Reaction of preparation of heterocyclic chalcones.



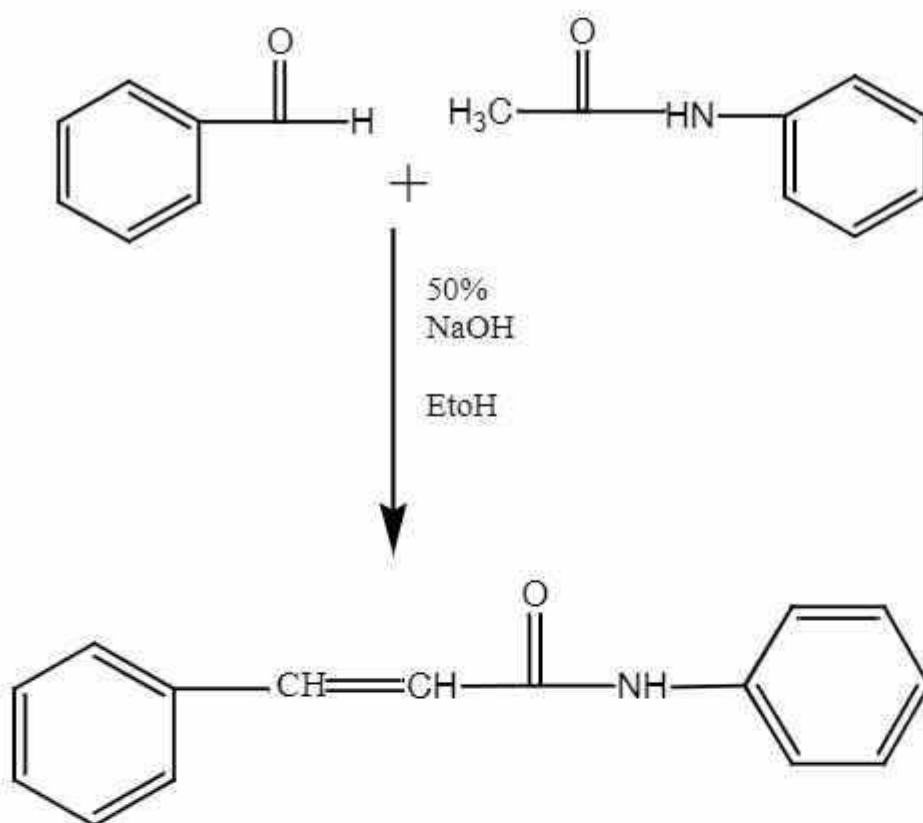
Reaction Mechanism:



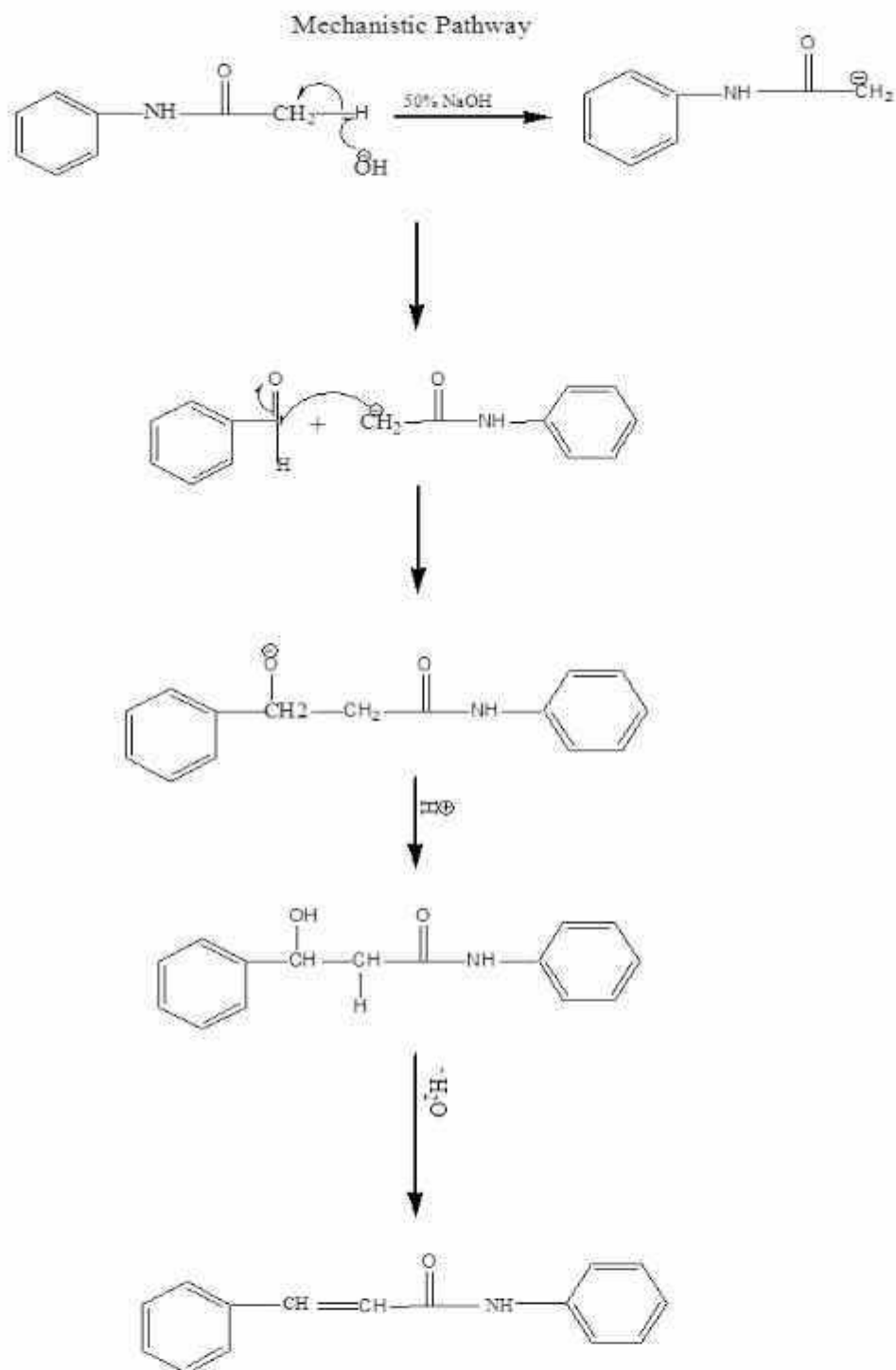
2) Preparation of Chalcones (II):

Equimolar mixtures of Acetanilide and Benzaldehyde dissolved in ethanol in 100 ml conical flask. Then mixture stirring with magnetic stirrer and 50% of NaOH (15ml) added drop wise into it. The mixture stirred at room temperature until solidification. After completion of reaction (monitored by TLC) mixture poured into ice water then acidified with 10% HCl solution in cold condition. The solid obtained filtered. (If product is not obtained then kept reaction mixtures in refrigerator for 24-hr.) The synthesized products were isolated, filter and washed with water, dried and recrystallized from ethanol.

General Reaction:



Reaction Mechanism:



Part -B

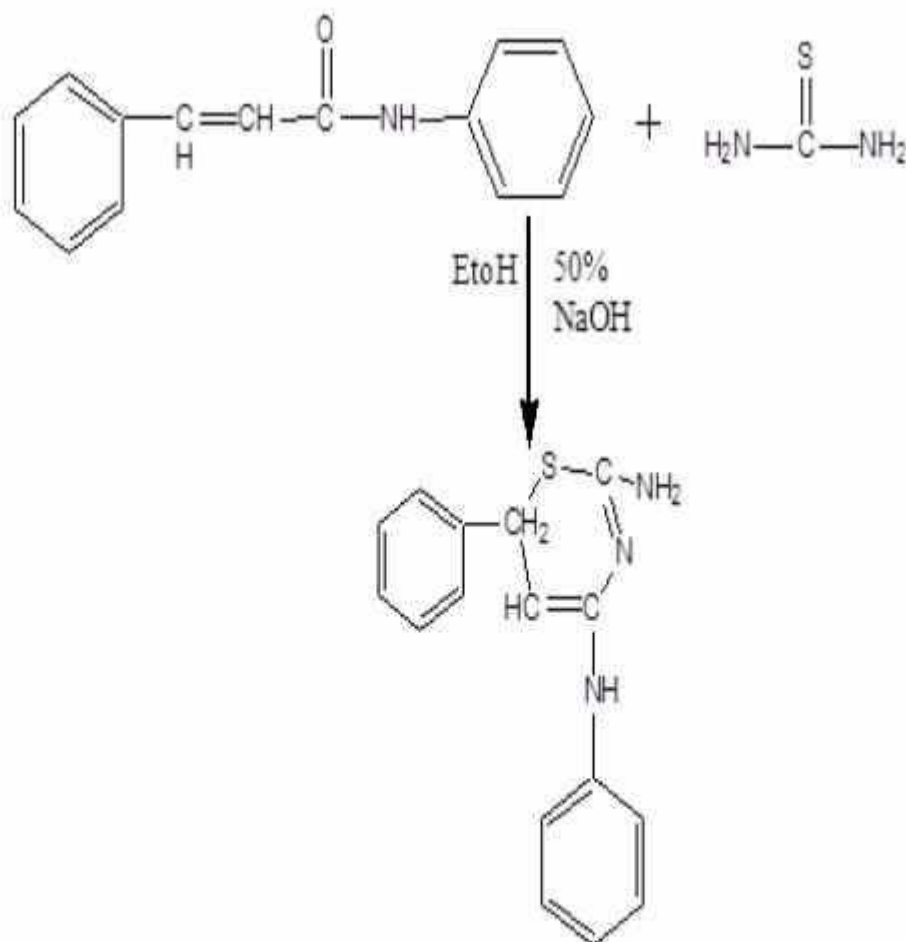
Synthesis of Chalcones derivatives with Urea & Thiourea

Preparation of Thiazine derivatives of Chalcones

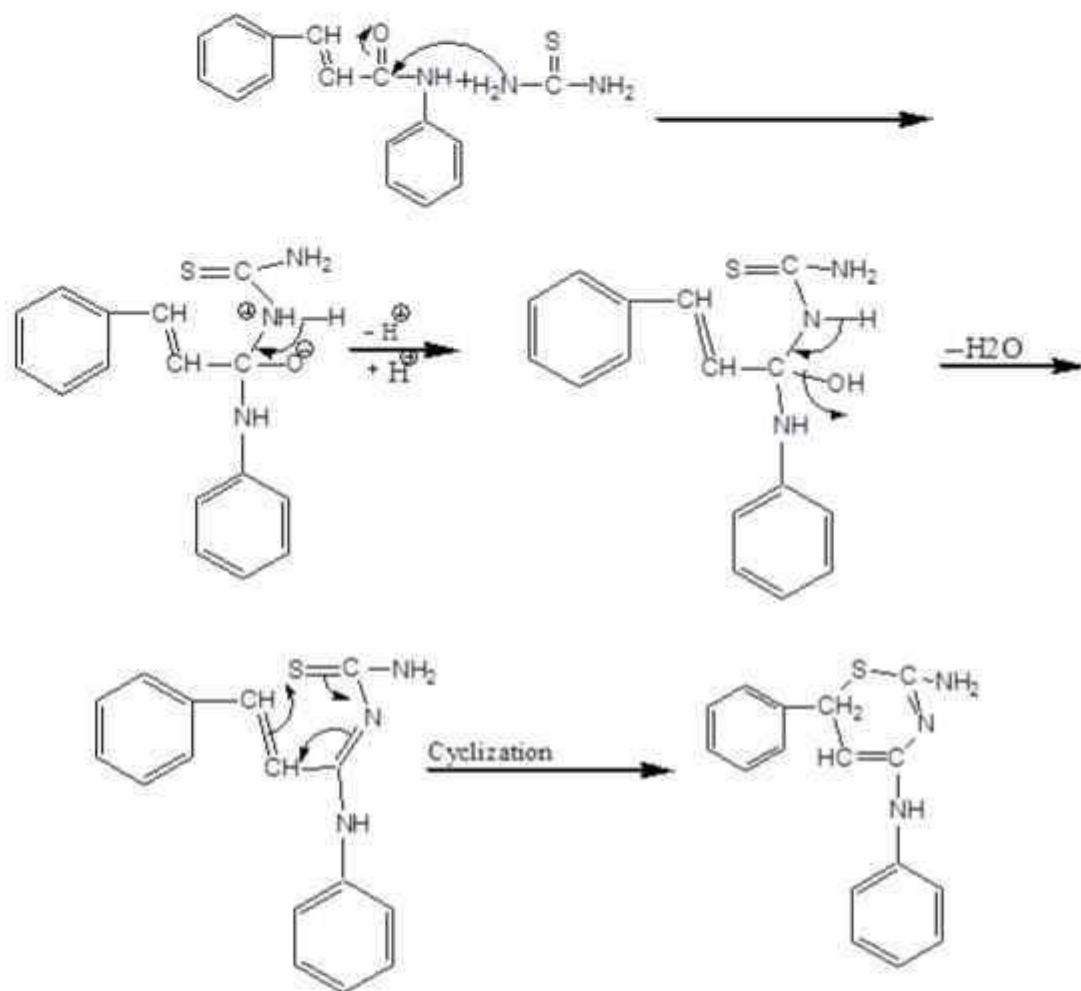
Experimental Procedure:

Equimolar mixtures of chalcones and Thiourea dissolved in ethanol in 100ml conical flask. Then mixture stirring with magnetic stirrer and 50% of ethanolic sodium hydroxide, (10ml). added drop wise into it was stirring for 3-4 hr.magnetic stirred. The mixture stirred at room temperature until solidification. After completion of reaction (monitored by TLC) mixture poured into ice cold water and continues stirring for 1hr. then kept reaction mixtures in refrigerator for 24hr.

Reaction



Reaction Mechanism:

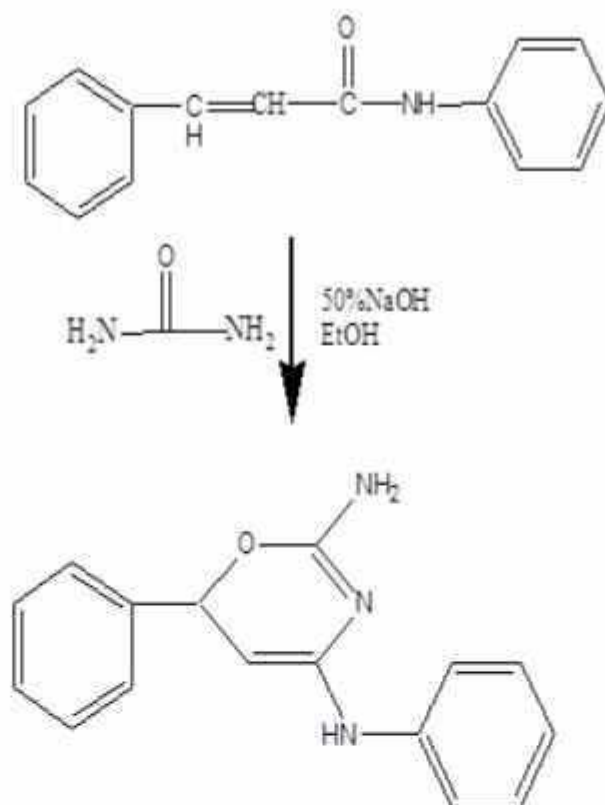


Preparation of Oxazine derivatives of chalcones

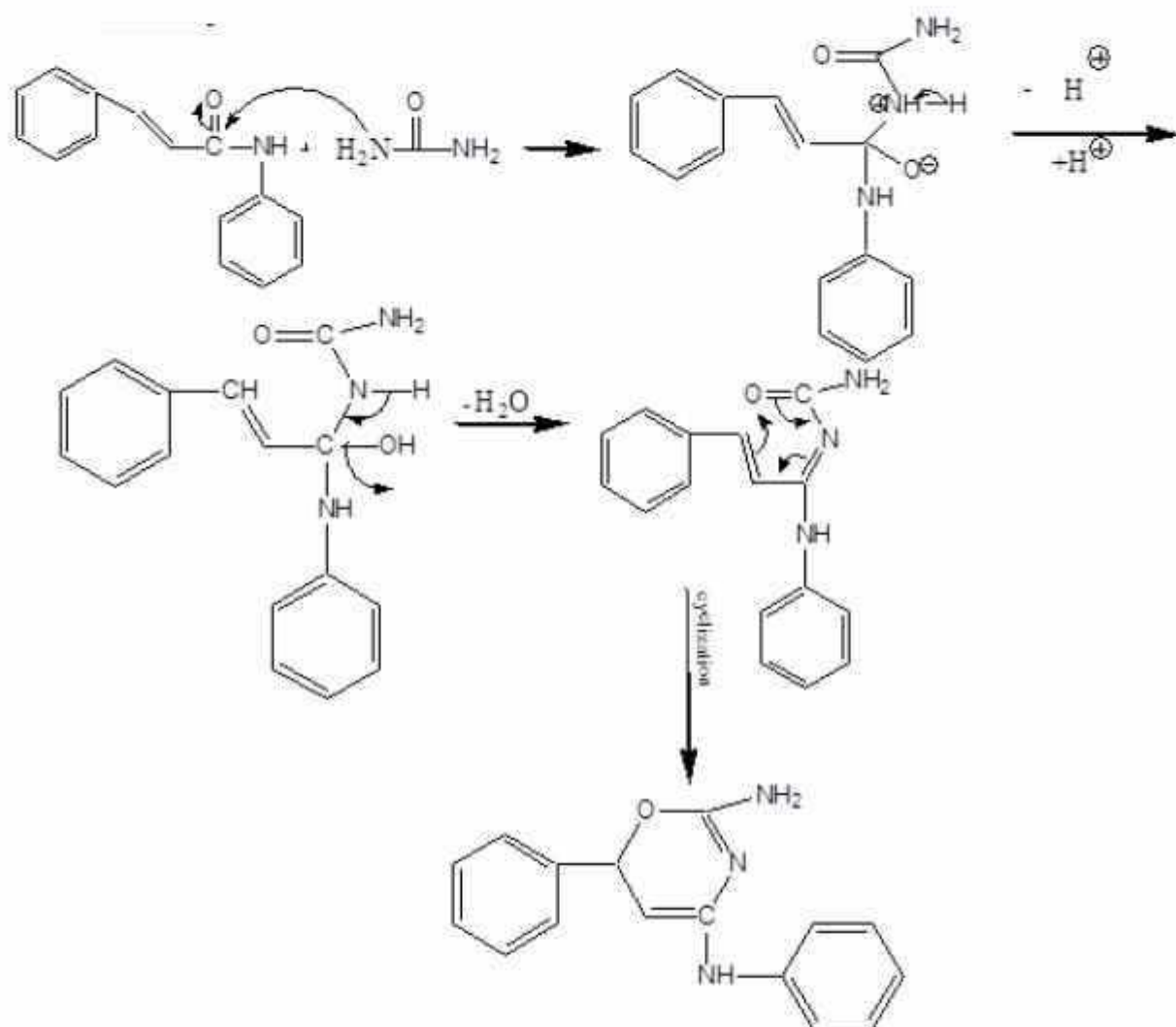
EXPERIMENTAL PROCEDURE:

Equimolar mixtures of chalcones and Urea dissolved in ethanol in 150ml conical flask. Then mixture stirring with magnetic stirrer and 50% of ethanolic sodium hydroxide,(10ml). added drop wise into it was stirring for 3-4 hr.magnetic stirred. The mixture stirred at room temperature until solidification. After completion of reaction (monitored by TLC) mixture poured into ice cold water and continues stirring for 1hr. then kept reaction mixtures in refrigerator for 24hr.

Reaction



Mechanistic Pathway:

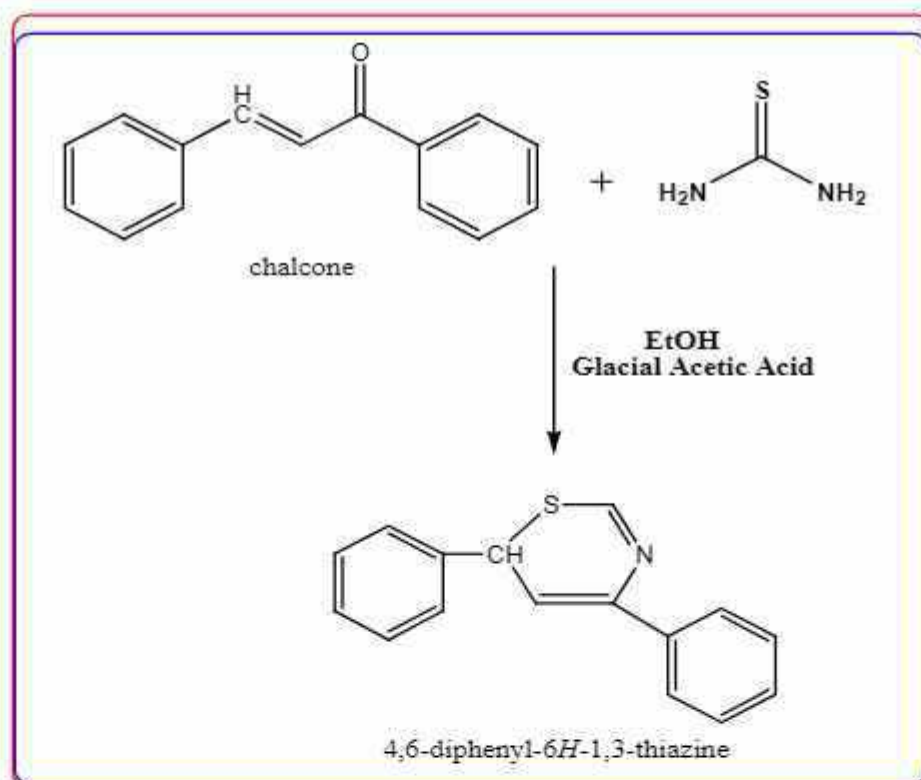


Preparation of Thiazine derivatives of chalcones

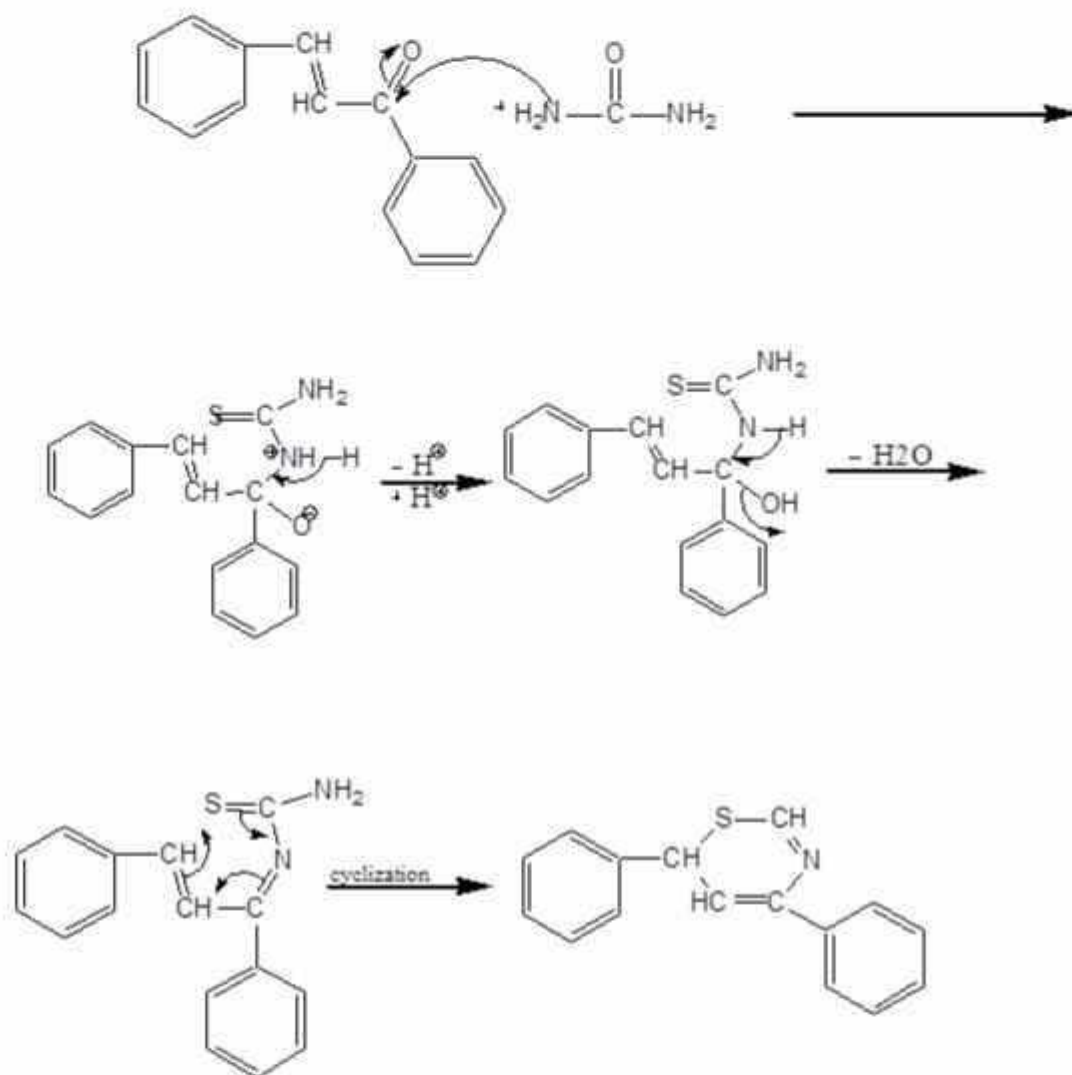
EXPERIMENTAL PROCEDURE:

Equimolar mixtures of chalcones and Thiourea dissolved in ethanol in 150ml conical flask. Then mixture stirring with magnetic stirrer and 50% of Glacial acetic acid added drop wise into it was stirring for 3-4 hr.magnetic stirred. The mixture stirred at room temperature until solidification. After completion of reaction (monitored by TLC) mixture poured into ice cold water and continues stirring for 1hr. then kept reaction mixtures in refrigerator for 24hr.

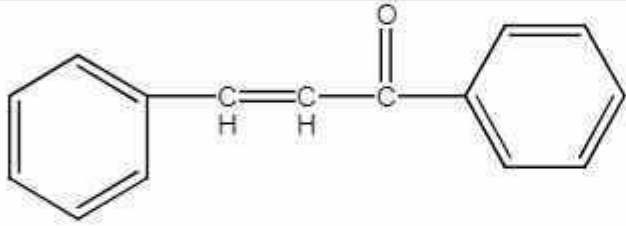
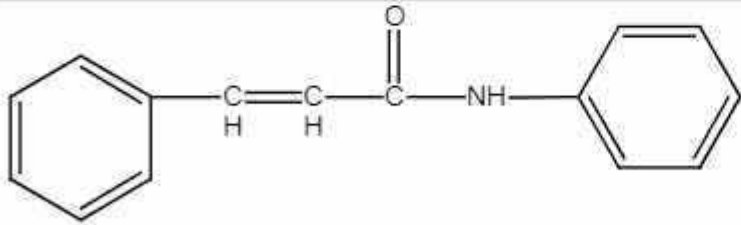
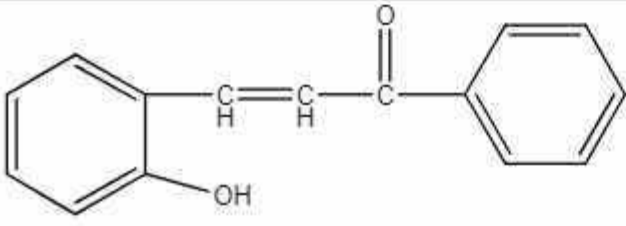
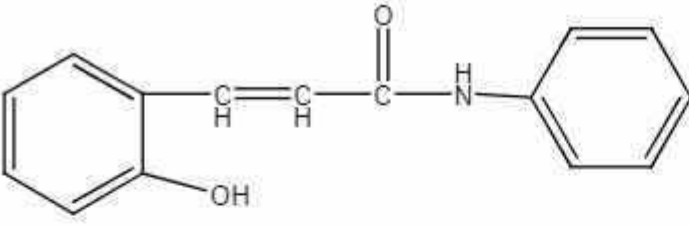
Reaction



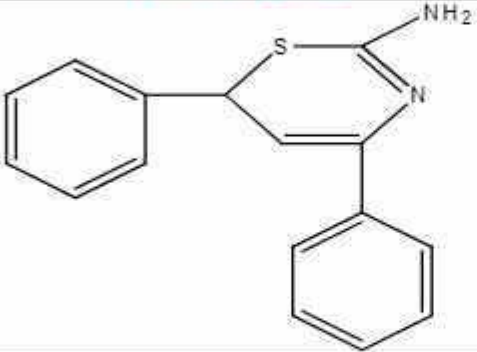
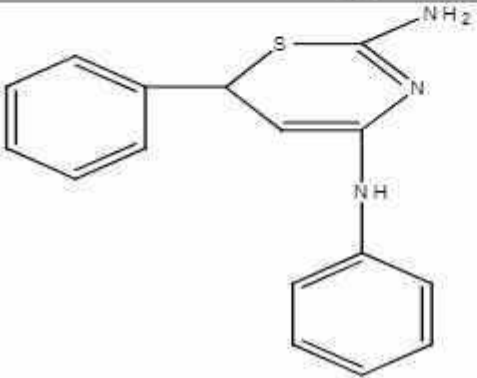
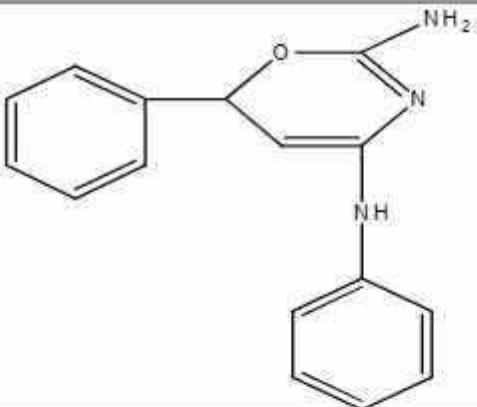
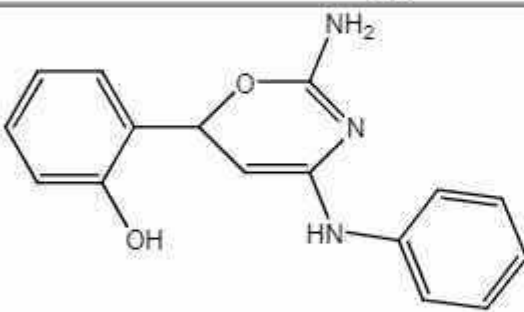
Mechanistic Pathway:



PART-A

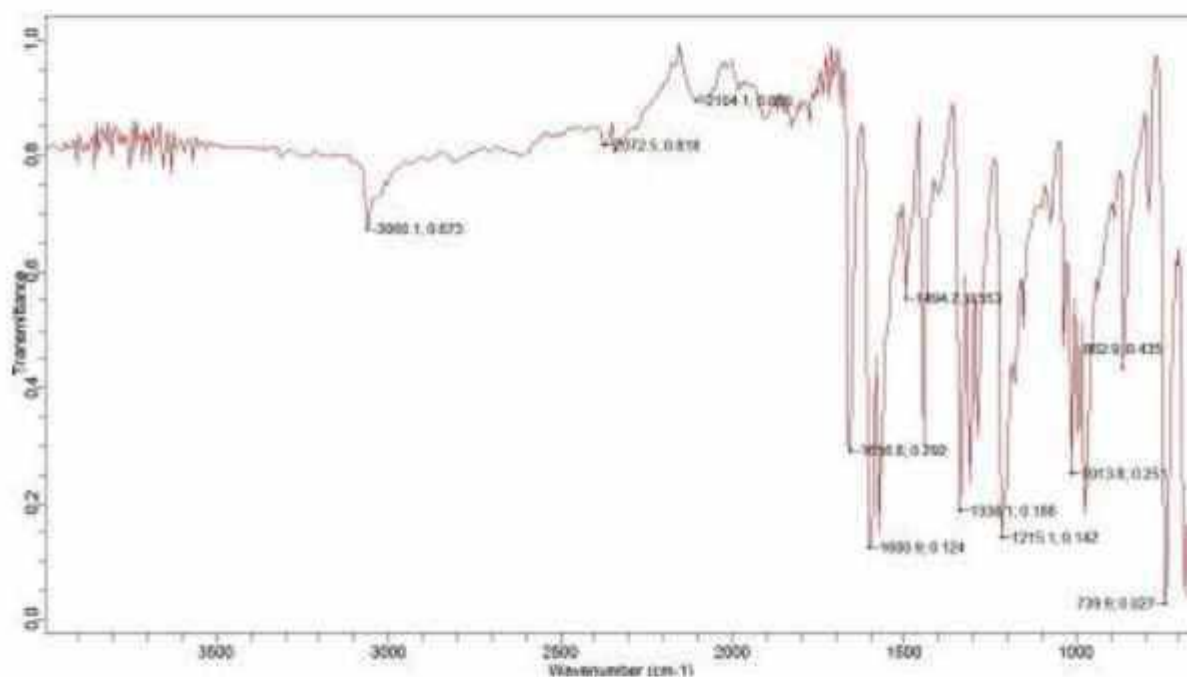
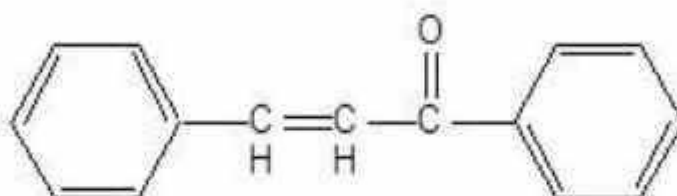
	MOLECULAR FORMULA	% Yield
	C₁₅H₁₂O	68.20
	MOLECULAR FORMULA	% Yield
	C₁₅H₁₃N₁O₁	66.50
	MOLECULAR FORMULA	% Yield
	C₁₅H₁₂O₂	68.50
	MOLECULAR FORMULA	% Yield
	C₁₅H₁₃NO₂	67.50

PART-B

STRUCTURE	M. FORMULA	% Yield
 <p>Chemical structure of 2-phenyl-4-phenyl-5-aminothiazole. It features a central thiazole ring with an amino group (-NH₂) at position 5, a phenyl ring at position 2, and another phenyl ring at position 4.</p>	$C_{16}H_{14}N_2S_1$	75.20%
 <p>Chemical structure of 2-phenyl-4-phenyl-5-amino-1H-thiazole. It features a central thiazole ring with an amino group (-NH₂) at position 5, a phenyl ring at position 2, and another phenyl ring at position 4. The nitrogen at position 1 is bonded to a hydrogen atom.</p>	$C_{16}H_{15}N_3S_1$	73.30%
 <p>Chemical structure of 2-phenyl-4-phenyl-5-amino-1,2,4-oxadiazole. It features a central 1,2,4-oxadiazole ring with an amino group (-NH₂) at position 5, a phenyl ring at position 2, and another phenyl ring at position 4. The nitrogen at position 1 is bonded to a hydrogen atom.</p>	$C_{16}H_{15}N_3O_1$	75.30%
 <p>Chemical structure of 2-(3,4-dihydroxyphenyl)-4-phenyl-5-amino-1,2,4-oxadiazole. It features a central 1,2,4-oxadiazole ring with an amino group (-NH₂) at position 5, a 3,4-dihydroxyphenyl group at position 2, and a phenyl ring at position 4. The nitrogen at position 1 is bonded to a hydrogen atom.</p>	$C_{16}H_{15}N_3O_2$	70.30%

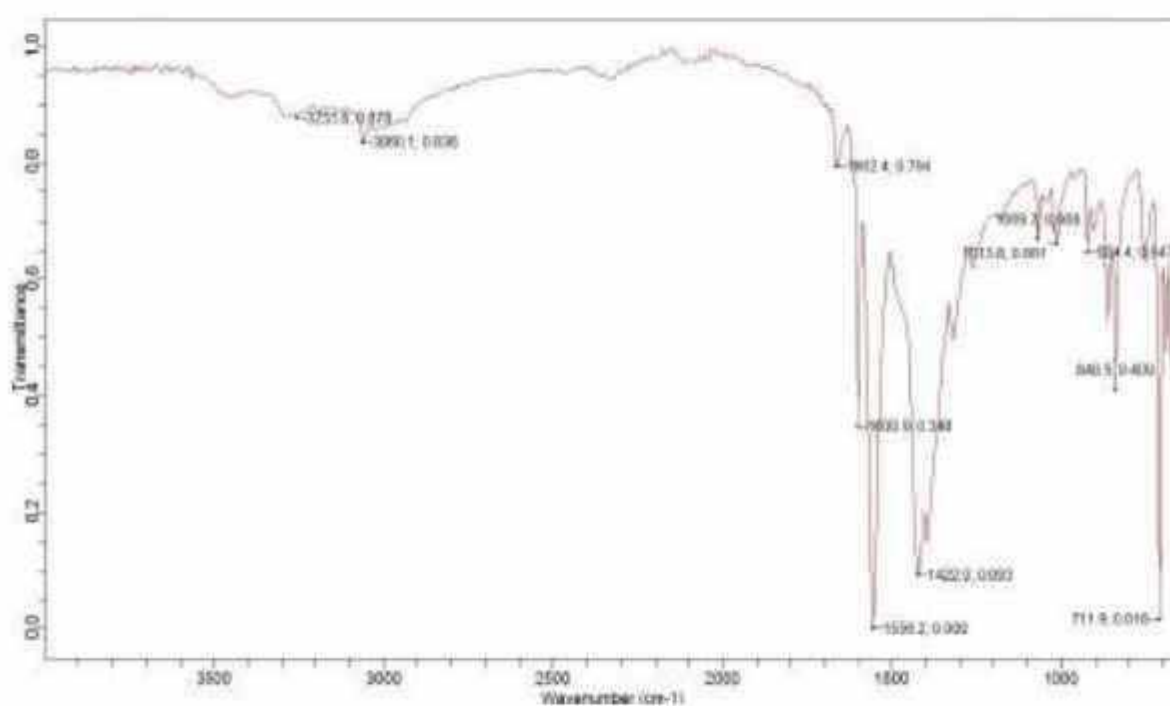
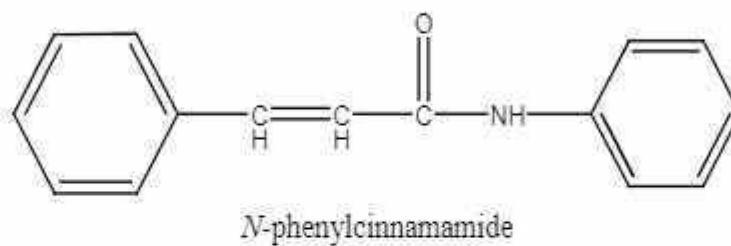
RESULT AND DISCUSSION:

FT-IR Spectral Data :



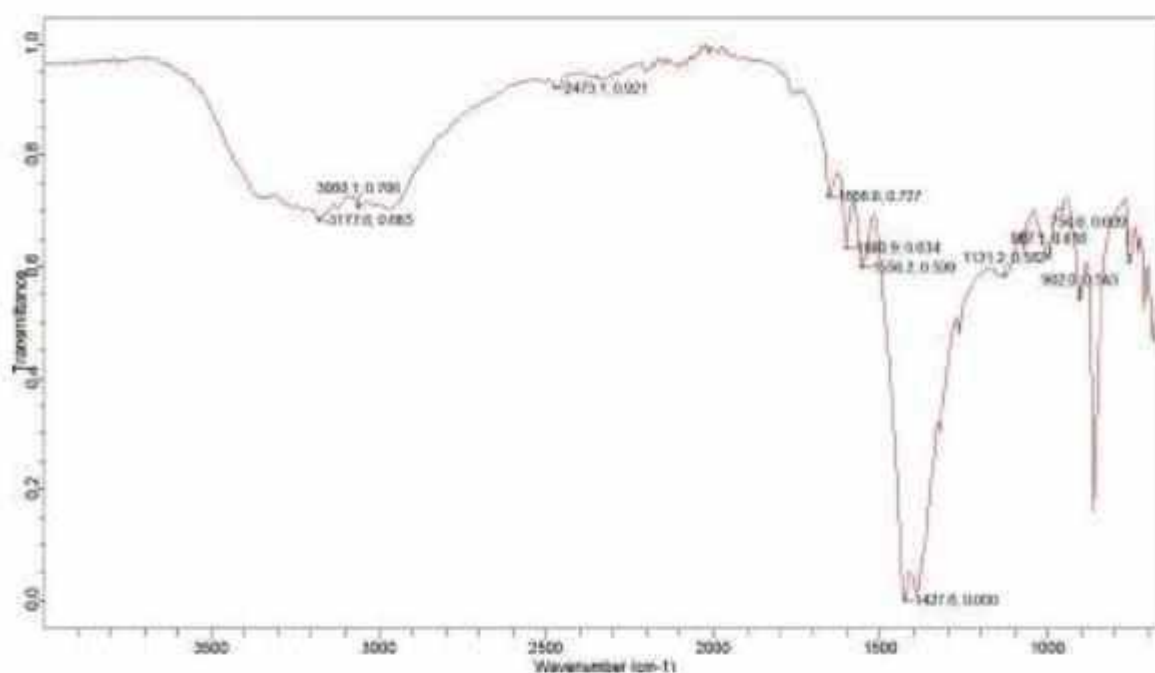
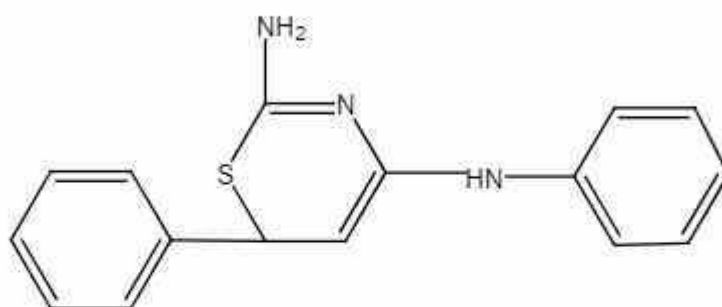
	FT-IR Cm ⁻¹		
	Frequency	C=C	C=O
CHALCONE I st	Observed	1600 Cm ⁻¹	1656 Cm ⁻¹
	Expected	1650 Cm ⁻¹	1680 Cm ⁻¹

FT-IR Spectral Data :



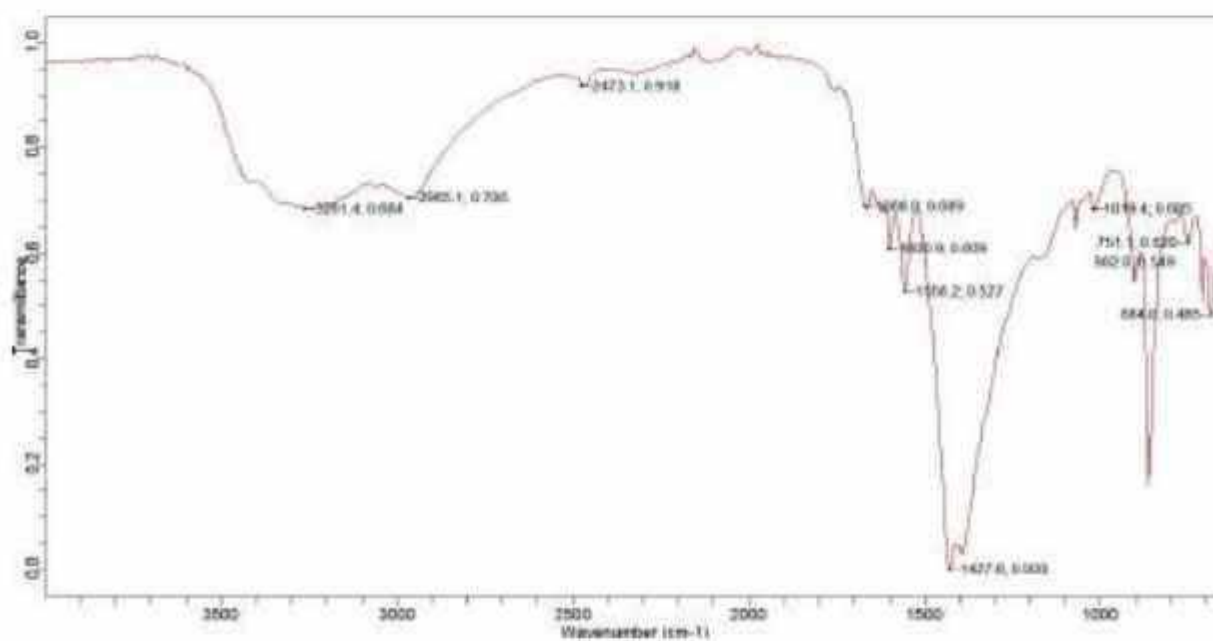
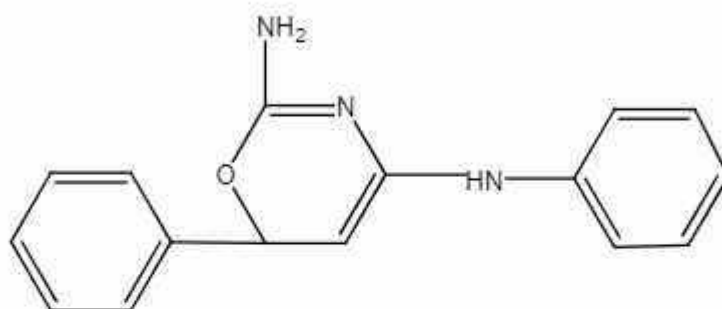
CHALCONE II nd	FT-IR Cm ⁻¹		
	Frequency	C=C	C=O
	Observed	1556 Cm ⁻¹	1600 Cm ⁻¹
Expected	1600 Cm ⁻¹	1680 Cm ⁻¹	

FT-IR Spectral Data :



FT-IR Cm^{-1}				
Derivative I^{at}	Frequency	C=C	C=N	C-S
	Observed	1556 cm^{-1}	1600 cm^{-1}	1131 cm^{-1}
	Expected	1600 cm^{-1}	1640 cm^{-1}	1200 cm^{-1}

FT-IR Spectral Data :



FT-IR Cm^{-1}				
Derivative II^{nd}	Frequency	C=C	C=N	C-O
	Observed	1556 cm^{-1}	1600 cm^{-1}	1019 cm^{-1}
	Expected	1600 cm^{-1}	1640 cm^{-1}	1100 cm^{-1}

Microbiological activity:

The Antibacterial and antifungal activity of the synthesized chalcone and their derivative have been done with the help of disc diffusion method of disc size 6mm using bacterial strain of Gram positive and negative bacteria i.e. (*S. Aureus*, *E. coli*) respectively and fungi species that is (*A. niger*, *C. Albicans*).

Method used and concentration of compound:

Agar diffusion assay [disc diffusion method, Disc size 6 mm] stock solution [1000 microgram per ml] of each compound was prepared in distilled water. Assay carried out by taking concentration 100 microgram per disk .disk. Hi-media antibiotic disk chloramphenicol (10 microgram disk) , moistened with water are used as standard as shown in graph-1.

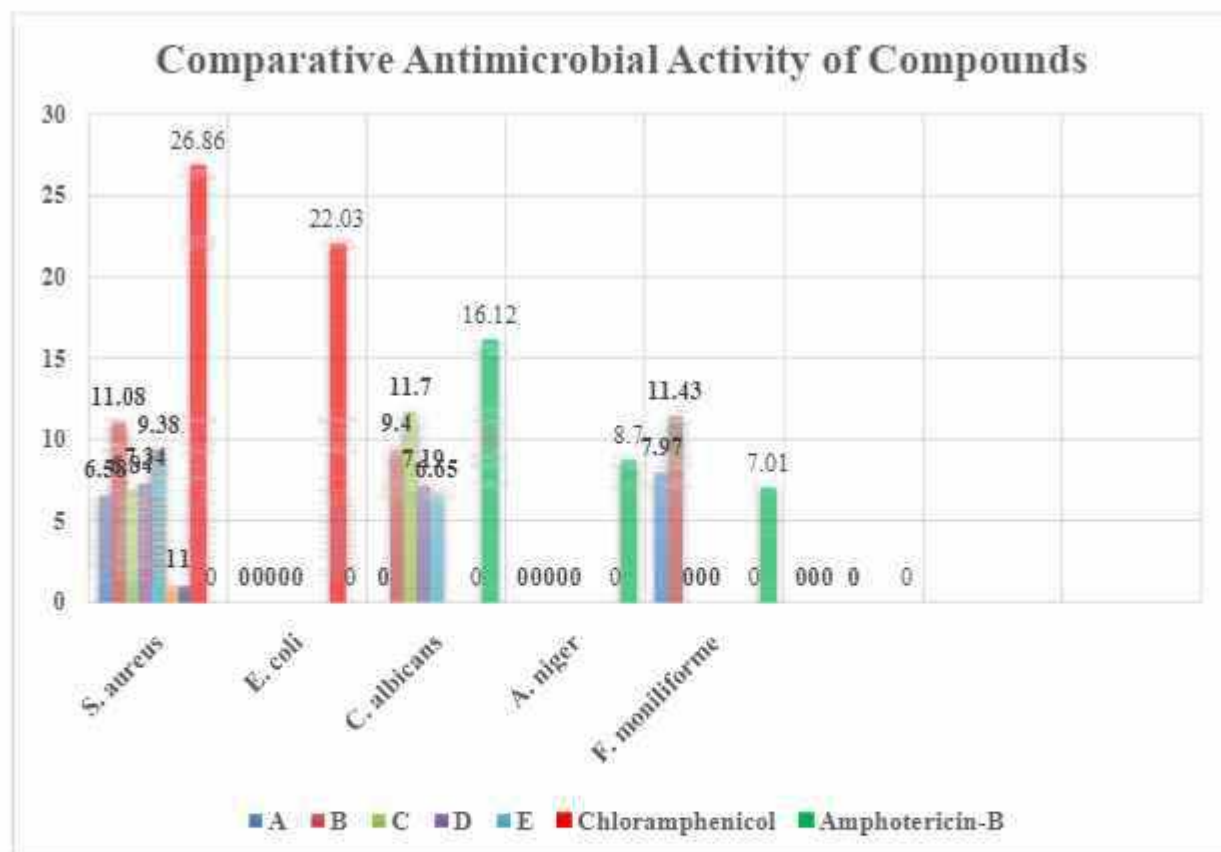




Fig :- E.Coli



Fig :- S. aureus

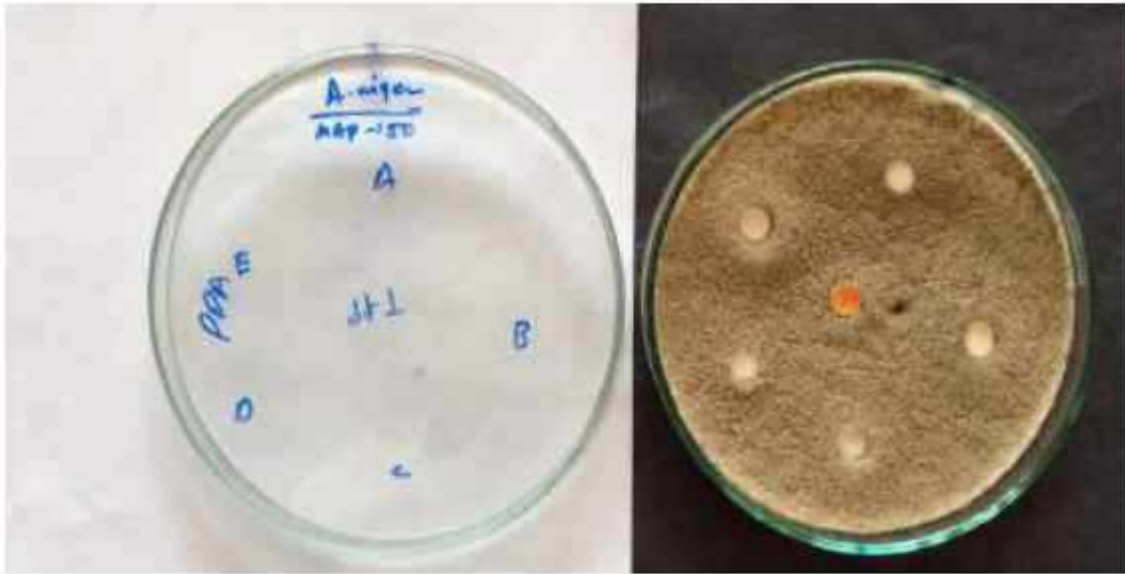


Fig :-A.Niger



Fig :-F.Moniliforme



Fig :-C.Albicans

Results of Antibacterial testing (Disc Diffusion Assay)

Sr.No.	Sample Code	<i>Staphylococcus aureus</i>	<i>Escherichia coli</i>	<i>Candida albicans</i>	<i>Aspergillus niger</i>	<i>Fusarium moniliforme</i>
1	A	6.58	Nil	Nil	Nil	7.97
2	B	1.08	Nil	9.40	Nil	11.43
3	C	6.84	Nil	11.70	Nil	Nil
4	D	7.34	Nil	7.19	Nil	Nil
5	E	9.38	Nil	9.65	Nil	Nil
6	Chloramphenicol	26.86	22.03	NA	NA	NA
7	Amphotericin B	NA	NA	16.12	8.70	7.01

Zone of Inhibition:

The compound **A,B** are the chalcone of synthesized chalcone and **C,D,E** are the code of derivative of chalcones with urea and thiourea and they was found to show moderate activity then standard so the zone of inhibition of synthesized compound is **6.58 mm, 11.08 mm, 6.84 mm, 7.34mm, 9.38mm**, respectively and its standard value **26.86mm, 22.03mm**, respectively. Gram negative bacteria i.e. *E.coli* does not give any response to antibacterial activity. Compound **A,B,C,D&E** also screening for antifungal activity and show moderate response to above fungi species i.e. *C. albicans, A. Niger, F. moniliforme* , respectively. The compound **B,C, D, E** having zone of inhibition **9.40mm, 11.70mm, 7.19mm, 9.65mm**, respectively and its standard value is **16.12mm, 8.70mm, 7.01mm** respectively.

Fusarium moniliforme it is one of the most disease causing fungi in plant body. Compound **A&B** having zone of inhibition **7.97mm, 11.43mm**, and standard value is **7.01mm**, so it show potent antifugal activity against *F. moniliforme*.

Result Table:

Materials and Method

1) Purification of Precursor:

The starting material is purified by recrystallisation method

2) Melting point::

Melting point were determined in open capillaries and are uncorrected.

3) IR spectrum:

IR spectra were recorded on Lambda (λ) 650 to 4000 FTIR (Fourier Transformation Infra Red) AGILENT TECHNOLOGIES Spectrophotometer.

4) Thin layer chromatography:

Thin layer chromatography plates were obtained from silica gel Slurry prepared in chloroform. The TLC was performed using n-hexane with ethyl acetate as a solvent.

Sr. No	Compound	Molecular Weight	Percentage of Yield	Molecular Formula	Recrystallized Solvent
1	A	222	66.50%	$C_{15}H_{13}N_1O_1$	Ethanol+Water
2	B	208	68.20%	$C_{15}H_{12}O$	Ethanol
3	C	281	70.30%	$C_{16}H_{15}N_3S_1$	Ethanol
4	D	265	72.30%	$C_{16}H_{15}N_3O_1$	Ethanol
5	E	266	71.20%	$C_{16}H_{14}N_2S_1$	Ethanol

NEEDS OF CHALCONE & THEIR DERIVATIVES:

- 1) The synthesis of chalcones compounds incorporating with hetero cycle became great importance in medicinal chemistry.
- 2) The hetero atoms N, O, S in their structure explain variety of application in the biological engineering and in other field of their specific structure.
- 3) They have been reported to shows various pharmalogical activities like anticancer, antimaterial, anti-tubercular, cytotoxic, modulation of nitric oxide product.
- 4) Methyl hydroxychalcone found in cinnamon, was thought to be insulin mimetic, improving insulin response of diabetics.
- 5) The heterocyclic compound of different ring with different heteroatoms has accepted a great deal of observation because of have compounds for main chain polymer and have many biologically active natural and industrial chemical products has molecular similarity.

Conclusion:

The discussion of present work is the synthesized chalcones and its derivative using Claisen Schmidt reaction.

From the above discussion we can conclude that chalcones and their derivative showed. Moderate to excellent antibacterial and antifungal activity against *F. moniliforme* and it is of the most disease causing fungi on plant body.

The synthesized chalcones and their derivative are widely used in pharmaceutical, agriculture field and this synthon widely used precursor compound for the synthesis of various organic compound.

Reference:

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Prof. Dr. N. S. Pawar
M.Sc. Ph.D.
Officiating Principal

Ref. No. ACS/SNK/ 202

Date : / / 202

List of Students undertaking Project/Fieldwork/Internship



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(250042), Station Road., Shindkheda, Shindhed, Dhule Pin: 425406

Exam Name: Environmental Studies (55588) Field Work CA (Max Mark: 40 Min Mark: 15) Count of Student: 104

Sr No	Seat Number	PRN	Student Name	Marks	Total
1	807553	2023015400143387	AHIRE BHAVESH BHADAS	32	Thirty two
2	807554	2023015400148365	AHIRE PAWAN ARUN	32	Thirty two
3	807555	2023015400149941	AKHADMAL PUJA ISHWAR	34	Thirty four
4	807556	2023015400281545	BADGUJAR PRIYA KISHOR	34	Thirty four
5	807557	2023015400142217	BELDAR LAXMI SANTOSH	34	Thirty four
6	807558	2023015400142593	BELDAR MAYUR RAJENDRA	32	Thirty two
7	807559	2023015400135843	BHADANE PRIYANKA KHANDERAO	34	Thirty four
8	807560	2023015400136132	BHADANE SAGAR CHHOTU	32	Thirty two
9	807561	2023015400132633	BHIL MOHINI NANA	34	Thirty four
10	807562	2023015400142554	BORASE DHANSHREE BHATU	34	Thirty four
11	807563	2023015400131893	BORASE MANISHA MANOHAR	35	Thirty five
12	807564	2023015400135032	CHAUDHARI AKANKSHA LOTAN	35	Thirty five
13	807565	2023015400142233	CHAUDHARI ANURADHA NILKANTH	34	Thirty four
14	807566	2023015400142496	CHAUDHARI DEVENDRA NILKANTH	30	Thirty
15	807567	2023015400135627	CHAUDHARI MOHINI RAMESH	34	Thirty four
16	807568	2023015400132687	DEGRE VARSHA CHANDRAKANT	32	Thirty two
17	807569	2023015400131904	DESALE AKSHAY DIPAK	32	Thirty two
18	807570	2023015400148342	DESALE NIKITA DIPAK	34	Thirty four
19	807571	2023015400142562	DEVKAR SAKSHI SANJAY	35	Thirty five
20	807572	2023015400143341	DHIVARE RAJ DINESH	30	Thirty
21	807573	2023015400131796	GIRASE ABHJIT DAGESING	30	Thirty
22	807574	2023015400135047	GIRASE KEDAR SUBHASHDING	32	Thirty two
23	807575	2023015400135697	GIRASE MADHURI YEDUSING	34	Thirty four
24	807576	2023015400135055	GIRASE PREMSING SURESH	30	Thirty
25	807577	2023015400132722	GORDE KUMUD VIJAY	34	Thirty four
26	807578	2023015400131823	GURAO SAKSHI DIPAK	35	Thirty five
27	807579	2023015400135411	ISHI CHETANA DAGADU	35	Thirty five
28	807580	2023015400132654	JADHAV PUNAM POPAT	32	Thirty two

S.S. Patole
Dr. S.S. Patole
Signature of Examiner

Date: *12/05/24*



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Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 15) Count of Student: 104

Sl. No.	Seat Number	PRN	Student Name	Marks	Total
29	807581	2023015400135635	JAGTAP MOHAN SATISH	30	Thirty
30	807582	2023015400148357	KAPURE NIKITA KARBHARI	35	Thirty five
31	807583	2023015400131885	KHALANE SAHIL BAPU	30	Thirty
32	807584	2023015400131807	KOLI DIKSHA RAGHUNATH	36	Thirty six
33	807585	2023015400135473	KOLI HARSHADA SUBHASH	34	Thirty four
34	807586	2023015400131846	KOLI RAHUL CHUNILAL	30	Thirty
35	807587	2023015400135465	KOLI SULOCHANA VILAS	34	Thirty four
36	807588	2023015400142813	KOLI TUSHAR RAVSAHEB	32	Thirty two
37	807589	2021015400046042	KULKARNI DHANASHREE SURESH	30	Thirty
38	807590	2023015400135716	KUMBHAR SAGAR RAMESH	32	Thirty two
39	807591	2023015400131935	LOHAR AVINASH RATILAL	32	Thirty two
40	807593	2023015400124057	MALI LALITA KISHOR	34	Thirty four
41	807594	2023015400135577	MALI MADHURI SANJAY	34	Thirty four
42	807595	2023015400131815	MALI NAMRATA VITTHAL	35	Thirty five
43	807596	2023015400131882	MALI PALLAVI KARAS	35	Thirty five
44	807597	2023015400135099	MALI PIJJA RAMKRUSHNA	36	Thirty six
45	807598	2022015400176797	MALI PUNAM VITTHAL	34	Thirty four
46	807599	2023015400124011	MALI VISHAL SURESH	32	Thirty two
47	807600	2023015400132706	MISTARI ARCHANA RAVINDRA	34	Thirty four
48	807601	2023015400135481	MISTARI CHETANA DADABHAI	35	Thirty five
49	807602	2023015400143325	MORE JAYESH SUBHASH	32	Thirty two
50	807603	2023015400124042	NHAVI VAISHNAVI SANTOSH	34	Thirty two
51	807604	2023015400135024	NIKAM TULSI RAMDAS	34	Thirty four
52	807605	2023015400132625	NIKAM URMILA VINOD	35	Thirty five
53	807606	2023015400124065	PADAVI LILA BAJYA	36	Thirty six
54	807607	2023015400132672	PANDIT JAGRUTI YOGESH	36	Thirty six
55	807608	2023015400124073	PARDESHI TANISHA GAJENDRASHING	32	Thirty two
56	807609	2022015400136765	PATEL AARYAN NATU	30	Thirty

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Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 16) Count of Student: 104

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
57	807610	2023015400131831	PATHAK YOGESH RAMCHANDRA	30	Thirty
58	807611	2023015400132714	PATEL AKSHAY RAVINDRA	31	Thirty one
59	807612	2022015400331066	PATIL CHAITALI KISHOR	34	Thirty four
60	807613	2023015400124081	PATIL DHARMESH SHIVAJI	30	Thirty
61	807614	2023015400135434	PATIL DIPALI DEVIDAS	35	Thirty five
62	807615	2023015400142225	PATIL DIVYA SANJAY	34	Thirty four
63	807616	2023015400142546	PATIL DIVYA SANJAY	35	Thirty five
64	807617	2023015400142507	PATIL GAYATRI HIRALAL	34	Thirty four
65	807618	2023015400135666	PATIL GAYATRI RAJENDRA	34	Thirty four
66	807619	2023015400135071	PATIL HARSHADA SATISH	34	Thirty four
67	807620	2023015400135016	PATIL KRANTI GOPICHAND	35	Thirty five
68	807621	2023015400138855	PATIL LALITA VIJAY	35	Thirty five
69	807622	2023015400142585	PATIL LAXMI DHANRAJ	34	Thirty four
70	807623	2023015400142523	PATIL LOCHANA KISHOR	34	Thirty four
71	807624	2023015400135593	PATIL MANOJ VIJAY	31	Thirty one
72	807625	2023015400131943	PATIL MUKTA PRAVIN	34	Thirty four
73	807626	2023015400136124	PATIL NANDINI ASHOK	34	Thirty four
74	807627	2023015400135682	PATIL NIKITA DHONDU	35	Thirty five
75	807628	2023015400350567	PATIL PRADIP SUKLAL	31	Thirty one
76	807629	2023015400150422	PATIL PUJA SANJAY	35	Thirty five
77	807630	2023015400281553	PATIL PURVAJ PRAVIN	34	Thirty four
78	807631	2023015400143356	PATIL RADHABAI KISAN	34	Thirty four
79	807632	2023015400149956	PATIL RAMKRUSHNA JIJABRAO	31	Thirty one
80	807633	2022015400331051	PATIL SAI CHANDRAKANT	30	Thirty
81	807634	2023015400131854	PATIL SAKSHI PRAKASH	32	Thirty two
82	807635	2023015400135442	PATIL SANJANA KIRAN	34	Thirty four
83	807636	2023015400135674	PATIL SHITAL MOTILAL	36	Thirty six
84	807637	2023015400131927	PATIL SHRADHA GOKUL	35	Thirty five

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Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 10) Count of Student: 104

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
85	807638	2023015400142831	PATIL UMA NITIN	34	Thirty four
86	807639	2023015400131912	PATIL VIVEK BHATU	31	Thirty one
87	807640	2023015400143395	PATIL YASH ANANDA	30	Thirty
88	807641	2023015400149933	PATOLE HUTESHI SANJAY	32	Thirty two
89	807642	2023015400148334	PATOLE SAGAR SANTOSH	32	Thirty two
90	807643	2023015400132856	PAWAR AMRUTA BABU	34	Thirty four
91	807644	2023015400135063	PAWAR DIPALI DIPAK	35	Thirty five
92	807645	2023015400148373	PAWAR PRATHMESH LOTAN	32	Thirty two
93	807646	2023015400131951	PIMPALÉ SHMA RAJENDRA	34	Thirty four
94	807647	2023015400142577	RAJPUT VIRSING RAJENDRA	30	Thirty
95	807648	2023015400135604	RAUT MOLA SAYSING	30	Thirty
96	807649	2023015400132695	RAUT SHANKAR SAYA	30	Thirty
97	807650	2023015400136147	RAUT URSHA PARTA	32	Thirty two
98	807651	2023015400142815	SAWALE JAYKUMAR RAVINDRA	30	Thirty
99	807652	2023015400132641	SHINDE VISHAL CHHOTU	30	Thirty
100	807653	2023015400136163	SURYAWANSHI NIKITA PANDHARINATH	34	Thirty four
101	807654	2023015400135701	THAKARE JAGDISH ABHIMAN	30	Thirty
102	807655	2023015400131877	THAKUR SAKSHI BHAVSING	34	Thirty four
103	807656	2023015400132737	WAGH RUSIKA SUDAM	34	Thirty four
104	807657	2023015400135457	WALHE CHETANA OMPRAKASH	34	Thirty four

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Paper Name: Environmental Studies (85655)

Field Work CA (Max Mark: 40 Min Mark: 10)

Count of Student: 170

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
1	316234	2023015400132304	AARHADMAL MITALI NARAYAN	32	Thirty two
2	316235	2023015400142785	ADHIKAR SUMIT ARUN	31	Thirty one
3	316236	2023015400149875	AHIRE VARSHA BHANUDAS	34	Thirty four
4	316237	2023015400125418	AHIRRAO MANSI VILAS	35	Thirty five
5	316239	2023015400132513	BADGUJAR BHUSHAN NARENDRA	34	Thirty four
6	316240	2023015400150453	BADGUJAR MADHURI RAJENDRA	34	Thirty four
7	316241	2023015400124982	BADGUJAR PRIYADARSHANI KISHOR	34	Thirty four
8	316242	2023015400124676	BADGUJAR RAHUL SUNIL	32	Thirty two
9	316243	2023015400343103	BANO FARHANA SAJID AHMED	34	Thirty four
10	316244	2023015400132335	BAVISKAR NAMRATA MAHESH	34	Thirty four
11	316245	2023015400149838	BHADANE AACHAL DIPAK	35	Thirty five
12	316246	2023015400132575	BHADANE DHANASHRI LAXMAN	34	Thirty four
13	316247	2023015400124974	BHADANE MINAKSHI BHATU	34	Thirty four
14	316248	2023015400150445	BHADANE ROSHAN KAILAS	33	Thirty three
15	316249	2023015400275951	BHAGAT NEHA RAMANAND	30	Thirty
16	316250	2023015400132993	BHIL RAMKRISHNA BHILA	34	Thirty four
17	316251	2023015400124564	BORASE LEKANKSHI HIMMAT	35	Thirty five
18	316252	2023015400142952	BORASE YOGITA PRAKASH	35	Thirty five
19	316254	2023015400125485	CHAUDHARI SONALI SUNIL	34	Thirty four
20	316255	2023015400132382	DEORE DAMINI SUNIL	34	Thirty four
21	316256	2023015400132536	DESALE JAGRUTI KISHOR	35	Thirty five
22	316257	2023015400149805	DESALE JAYKUMAR NITIN	32	Thirty two
23	316258	2023015400125103	DHANGAR ANJALI HIMMAT	35	Thirty five
24	316259	2023015400132486	DHANGAR ASHVINI YUVRAJ	34	Thirty four
25	316260	2023015400125185	DHANGAR SWATI MAHUBA	34	Thirty four
26	316261	2023015400125455	DHANRALE CHETAN SHALIK	30	Thirty
27	316264	2023015400136082	GIRASE AVINASH KOMALSING	32	Thirty two
28	316268	2023015400132254	GIRASE BHUPENDRASING LOTANSING	30	Thirty



PRINCIPAL

PRINCIPAL,

S.S.V.P.S.'s Late S.D. Patil alias Bebusro Deda Arts, Commerce & Bhausaheb M.D.Sisode Science College, Shindkheda, Dist. Dhule.

Dr. S.S. Patole
Signature of Examiner

Date

1. While entering the marks, please write in clear legible hand-writing, without any correction or erasure.
2. In case of any discrepancy, please verify the marks appearing with your signature.
3. Use English number while marking.
4. Usage of white correction fluid is not allowed.



Kavayitri Bahinabai Chaudhari North Maharashtra University

W Grade NAAC Re-Accredited (4th Cycle) Jaipur-425001, Maharashtra (India)
http://www.kbcuniversity.ac.in

Blank Mark List For

B.Sc.(with Credits) - Regular-under CBCS (June-2022) Pattern - FY B.Sc. - Sem-II For April-2024

College : Shri Shivaji Vidya Prasarak Sanstha's Late S. D. Patil Alias Baburao Dada Aris, Commerce and Late M. D. Sisode Science College (250042), Station Road., Shindkheda, Shindkhed, Dhule Pin: 425406

Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 16) Count of Student: 170

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
29	316267	2023015400125447	GIRASE DIVYA GUMANSING	35	Thirty five
30	316269	2023015400132432	GIRASE HARSHADA BHAUSAHEB	34	Thirty four
31	316270	2023015400136101	GIRASE JAYSHRI DNYANESHWAR	34	Thirty four
32	316271	2023015400136027	GIRASE KHUSHI PRABHATSINHA	35	Thirty five
33	316272	2023015400132583	GIRASE MAHESH LAKHESING	32	Thirty two
34	316273	2023015400150476	GIRASE MAHESH RANSING	32	Thirty two
35	316274	2023015400132505	GIRASE MANASI DIPAK	34	Thirty four
36	316275	2023015400149018	GIRASE MAYUR PADAMSING	32	Thirty two
37	316276	2023015400139043	GIRASE NARENDRA PRAVINSING	32	Thirty two
38	316277	2023015400135965	GIRASE NUTAN SANJAYSING	35	Thirty five
39	316278	2023015400138097	GIRASE PIYUSH RAJENDRASING	35	Thirty five
40	316279	2023015400275960	GIRASE POOJA MITHESING	35	Thirty five
41	316280	2023015400149891	GIRASE PRACHI SUNIL	36	Thirty six
42	316281	2023015400132455	GIRASE PRAFUL NITINBHAI	32	Thirty two
43	316282	2023015400138035	GIRASE PRERANA RAJENDRA	34	Thirty four
44	316284	2023015400138012	GIRASE PRIYANKA RAVINDRASING	32	Thirty two
45	316285	2023015400125424	GIRASE PUJA NARAYANSING	34	Thirty four
46	316286	2023015400125142	GIRASE PUSHPA DARBARISING	32	Thirty two
47	316287	2023015400138051	GIRASE RAJ RANJITSING	32	Thirty two
48	316288	2023015400124885	GIRASE RAKESH TUKARAM	32	Thirty two
49	316289	2023015400132391	GIRASE RATNDEEP DARBARISING	30	Thirty
50	316291	2023015400124502	GIRASE RUPALI CHANDRASING	34	Thirty four
51	316292	2023015400343111	GIRASE RUSHIKESH INDRASING	32	Thirty two
52	316294	2023015400132463	GIRASE SANIKABA/ NANABHAU	36	Thirty six
53	316296	2023015400124646	GIRASE SUMIT NARAYANSING	32	Thirty two
54	316298	2023015400149813	GIRASE VAIBHAVI CHARANSING	34	Thirty four
55	316299	2023015400124711	GIRASE VAISHNAVI SANJIV	34	Thirty four
56	316300	2023015400124757	GIRASE VIRENDRA NIMBA	32	Thirty two



Jeevan
IOAC Co-ordinator

[Signature]

PRINCIPAL,

S.S.V.P.S.'s. Late S.D. Patil alias Baburao Dada Aris, Commerce & Bhausaheb M.D.Sisode Science College, Shindkheda, Dist. Dhule.

[Signature]
Dr. S.S. Patole
Signature of Examiner

Date

Instructions:
1. Write in blue or black ballpoint pen only.
2. In case of scribbles, over-writing or corrections, please re-write the mark separately with your signature.
3. Use English medium only.
4. Usage of calculator is strictly prohibited.



Kavayitri Bahinabai Chaudhari North Maharashtra University

'A' Grade NAAC Re-Accredited (4th Cycle) Jaigasa-425001, Maharashtra (India)
https://www.dgkbaluniversity.ac/

Blank Mark List For

B.Sc.(with Credits) - Regular-under CBCS [June-2022] Pattern - FY B.Sc. - Sem-II For April-2024

College : Shri Shivaji Vidya Prasarak Sanstha's Late S. D. Patil Alias Baburao Dada Arts, Commerce and Late M. D. Sisode Science College
(250042), Station Road., Shindkheda, Sindkhed, Dhule Pin: 425408

Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 16) Count of Student: 170

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
57	316303	2023015400343092	ISHI ROHIT VJAY	34	Thirty four
58	316305	2023015400132285	JADHAV CHETANA BAPU	35	Thirty five
59	316306	2023015400125463	JADHAV KISHOR RAVINDRA	32	Thirty two
60	316307	2023015400149883	JADHAV ROSHANI YUVARAJ	34	Thirty four
61	316308	2023015400125173	KAPADNE RAJESHRI SANJAY	33	Thirty three
62	316310	2023015400132885	KAPURE ROHIT RAVINDRA	32	Thirty two
63	316311	2023015400142883	KAPURE SANDESH DAGADU	34	Thirty four
64	316312	2023015400124877	KHAIRNAR VAISHALI SANJAY	34	Thirty four
65	316313	2023015400132312	KHARKAR DIPASHREE JITENDRA	35	Thirty five
66	316314	2023015400132494	KOLI DIPALI GORAKH	36	Thirty six
67	316318	2023015400124773	MAHALE GAYATRI GHANSHYAM	35	Thirty five
68	316319	2023015400135972	MAHALE MADHURI JAYSING	34	Thirty four
69	316320	2023015400124804	MALI BHAGYASHRI ANIL	34	Thirty four
70	316321	2023015400132248	MALI BHAGYASHRI SANJAY	34	Thirty four
71	316322	2023015400132223	MALI GAYATRI BANSILAL	34	Thirty four
72	316324	2023015400125111	MALI PUNAM SHAMDAS	35	Thirty five
73	316325	2023015400125126	MALI VAISHALI RAMKRUSHNA	34	Thirty four
74	316326	2023015400132207	MALI YOGITA SANJAY	34	Thirty four
75	316327	2023015400124653	MARATHE BHAGYASHRI BHARAT	34	Thirty four
76	316328	2023015400149783	MARATHE DIVYA DIPAK	35	Thirty five
77	316329	2023015400132327	MARATHE HARSHITA PRAVIN	34	Thirty four
78	316330	2023015400124703	MARATHE HARSHITA SURESH	34	Thirty four
79	316331	2023015400124608	MISTARI NIVEDITA SHAMKANT	34	Thirty four
80	316332	2023015400150492	MISTARI PRATHAMESH SUSHIL	36	Thirty six
81	316333	2023015400124843	NAYAK SONAM KANHAIYALAL	34	Thirty four
82	316335	2023015400132591	NIKAM MAYUR NANDU	30	Thirty
83	316336	2023015400150461	NIKUMBH MANISH MOHAN	32	Thirty two
84	316337	2023015400132544	PADVI DEVSING KHAALYA	30	Thirty

Comm an

Seal

IQAC Co-ordinator
SSVPS's Arts, Commerce
and Science College
Shindkheda, Dist. Dhule

PRINCIPAL,

S.S.V.P.S.'s, Late S.D. Patil alias
Baburao Dada Arts, Commerce &
Bhauasahab M.D. Sisode Science
College, Shindkheda, Dist. Dhule.

Dr. S. S. Patole
Signature of Examiner

Date

Instructions

1. While filling up the mark list, please hand over the original to the Controller.
2. In case of any discrepancy, over-writing or correction, please re-write the marks separately with your signature.
3. Use of eraser is strictly prohibited.
4. Usage of white-out is strictly prohibited.



Kavayitri Bahinabai Chaudhari North Maharashtra University

'A' Grade NAAC Re-Accredited (4th Cycle) A1/3001, Maharashtra (India)
<http://www.dgkshahiniversity.ac/>

Blank Mark List For

B.Sc.(with Credits) - Regular-under CBCS [June-2022] Pattern - FY B.Sc. - Sem-II For Apr-2024

College : Shri Shivaji Vidya Prasarak Sanstha's Late S. D. Patil Alias Baburao Dada Arts, Commerce and Late M. D. Sisode Science College (250042), Station Road., Shindkheda, Shindkheda, Dist. Dhule Pin: 425405

Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 16) Count of Student: 170

Sl. No.	Seat Number	PRN	Student Name	Marka	Total
85	316338	2023015400125181	PADVI ROHIDAS CHIMA	30	Thirty
86	316339	2023015400124742	PARDESHI AVINASH CHHOTU	32	Thirty two
87	316342	2023015400312886	PARDESHI YOGESH GOKUL	32	Thirty two
88	316343	2023015400124951	PATIL AARATI ANIL	34	Thirty four
89	316344	2023015400142867	PATIL ASHVIN SURESH	35	Thirty five
90	318345	2023015400124966	PATIL ASHWINI MAHENDRA	36	Thirty six
91	316346	2023015400125401	PATIL CHAITALI SUNIL	35	Thirty five
92	316347	2023015400125207	PATIL CHANCHAL SUNIL	34	Thirty four
93	316348	2023015400149821	PATIL CHETANA BHAGWAN	34	Thirty four
94	316349	2023015400125231	PATIL CHETANA PRADIP	34	Thirty four
95	316350	2023015400275927	PATIL DARSHAN SHRAWAN	30	Thirty
96	316351	2023015400124595	PATIL DARSHANA SAMHAJI	34	Thirty four
97	316353	2023015400124846	PATIL DHANASHRI YOGESH	34	Thirty four
98	316354	2023015400124765	PATIL DIVYA PIRAN	35	Thirty five
99	316355	2023015400124935	PATIL DIVYA SHANTILAL	35	Thirty five
100	316356	2023015400136074	PATIL GALIRAV KIRAN	30	Thirty
101	316357	2023015400125215	PATIL GAYATRI PRAVIN	34	Thirty four
102	316358	2023015400343076	PATIL HARSHADA SUNIL	34	Thirty four
103	316360	2023015400275943	PATIL JAGRUTI RAJENDRA	34	Thirty four
104	316361	2023015400149756	PATIL KRUTIKA SHASHIKANT	35	Thirty five
105	316363	2023015400136096	PATIL KUNAL JNABRAO	30	Thirty
106	316364	2023015400132231	PATIL LILAKSHI BHASKAR	34	Thirty four
107	316365	2023015400149852	PATIL MADHURI SAMHAJI	34	Thirty four
108	316367	2023015400124587	PATIL MAYUR RAVSAHEB	32	Thirty two
109	316389	2023015400124854	PATIL MEGHA SURESH	34	Thirty four
110	316370	2023015400132293	PATIL MOHINI KIRAN	30	Thirty
111	316371	2023015400124912	PATIL NARENDRA RAVAN	30	Thirty
	316373	2023015400124881	PATIL NIKITA SANJAY	34	Thirty four



J. Kulkarni
IQAC Co-ordinator

[Signature]
PRINCIPAL,

[Signature]
Dr. S.S. Patole
Signature of Examiner

Date

S.S.V.P.S.'s Late S.D. Patil Alias Baburao Dada Arts, Commerce and Late M.D. Sisode Science College, Shindkheda, Dist. Dhule.



Kavayitri Bahinabai Chaudhari North Maharashtra University

W Grade NAAC Re-Accredited (4th Cycle) Jaipur-425001, Maharashtra (India)

<https://www.kbcuniversity.ac/>

Blank Mark List For

B.Sc.(with Credits) - Regular-under CBCS [June-2022] Pattern - FY B.Sc. - Sem-II For April-2024

College : Shri Shiva) Vidya Prasarak Sanstha's Late S. D. Patil Alias Baburao Dada Arts, Commerce and Late M. D. Sisode Science College (250042), Station Road., Shindkheda, Shindkheda, Dhule Pin: 425408

Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 14) Count of Student: 170

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
113	316374	2023015400132552	PATIL NILESH PRAKASH	30	Thirty
114	316375	2023015400136116	PATIL PRATHAMESH BHAUSAHEB	30	Thirty
115	316377	2023015400149887	PATIL RINA NAVAL	34	Thirty four
116	316379	2023015400132521	PATIL ROHINI RAJENDRA	34	Thirty four
117	316380	2023015400124614	PATIL ROHINI TUKARAM	35	Thirty five
118	316382	2023015400132397	PATIL SAYALI ROHIDAS	30	Thirty
119	316383	2023015400150484	PATIL SHARAD RAMKRUSHNA	30	Thirty
120	316386	2023015400132277	PATIL SUSHMA AJAY	34	Thirty four
121	316387	2023015400132343	PATIL SWATI PRAVIN	34	Thirty four
122	316389	2023015400132977	PATIL TEJASWINI MADHUKAR	34	Thirty four
123	316390	2023015400343084	PATIL URMILA PANDURANG	35	Thirty five
124	316391	2023015400136171	PATIL VAISHNAVI SANDIP	35	Thirty five
125	316393	2023015400124684	PATIL VARSHA VINAYAK	35	Thirty five
126	316394	2023015400102447	PATIL YAMINI DATTATRAY	34	Thirty four
127	316395	2023015400124927	PATIL YASH DEVIDAS	30	Thirty
128	316397	2023015400125084	PAWAR DIPTI ISHWAR	34	Thirty four
129	316398	2023015400125397	PAWAR GOPAL LALIT	30	Thirty
130	316399	2023015400132416	PAWAR HARSHADA CHUNILAL	34	Thirty four
131	316400	2023015400124692	PAWAR HARSHADA SHARAD	34	Thirty four
132	316402	2023015400132262	PAWAR KOMAL VILAS	35	Thirty five
133	316403	2023015400149771	PAWAR RAKESH RAMESH	30	Thirty
134	316404	2023015400125432	PAWAR RITU MANOHAR	34	Thirty four
135	316406	2023015400136004	PAWAR TEJASWINI SHASHIKANT	35	Thirty five
136	316408	2023015400135987	PAWAR AKASH TARACHAND	30	Thirty
137	316409	2023015400150437	PAWARA DARASING LALA	28	Twenty eight
138	316410	2023015400124997	RAJPUT KAVITA HIMMATSING	34	Thirty four
139	316411	2023015400132196	RAJPUT NEHA RAJENDRA	34	Thirty four
140	316412	2023015400125092	RAJPUT NIKITA DILIPSING	35	Thirty five



Shivam

[Signature]

[Signature]
Dr. S.S. Patole
Signature of Examiner

Date

IQAC Co-ordinator

PRINCIPAL,

1. Write the name of the college in clear, legible hand-writing.
2. In case of correction, the student of the college should re-write the name in the blank space provided.
3. Use the correct number while entering the marks.
4. Use the correct date.

S.S.V.P.S.'s Late S.D. Patil alias Baburao Dada Arts, Commerce & Bhausaheb M.D. Sisode Science College, Shindkheda, Dist. Dhule.



Kavayitri Bahinabai Chaudhari North Maharashtra University

W Grade NAAC Re-Accredited (4th Cycle) Jaipur-425001, Maharashtra (India)
https://www.kbcuniversity.ac/

Blank Mark List For

B.Sc.(with Credits) - Regular-under CBCS (June-2022) Pattern - FY B.Sc. - Sem-II For April-2024

College : Shri Shiveji Vidya Prasarak Sanstha's Late S. D. Patil Alias Baburao Dada Arts, Commerce and Late M. D. Sisode Science College (250042), Station Road., Shindkheda, Sindkhed, Dhule Pin: 425406

Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 16) Count of Student: 170

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
141	316413	2023015400146024	RAJPUT PRUTHVIRAJ SINGH DWAN SINGH	30	Thirty
142	316414	2023015400132424	RAJPUT SNEHA RUP SINGH	36	Thirty six
143	316415	2023015400124734	RAJPUT SRUSHTI VINOD	36	Thirty six
144	316416	2023015400281522	RAJAL RAJKUMAR DIGPALSINGH	35	Thirty five
145	316417	2023015400282483	SAKAT DNYANESHWAR BABAN	30	Thirty
146	316418	2023015400132617	SALUNKE ASHWINI ASHOK	35	Thirty five
147	316420	2023015400124893	SHIMPI DHANASHREE RAMKRUSHNA	34	Thirty four
148	316421	2023015400125673	SHINDE ANJALI SITARAM	34	Thirty four
149	316422	2023015400312847	SHINDE ANKIT SANJAY	32	Thirty two
150	316423	2023015400124796	SHINDE PRANAV RAJENDRA	30	Thirty
151	316424	2023015400132366	SONAWANE CHETANA CHUNLAL	34	Thirty four
152	316426	2023015400124637	SONAWANE JAYSHRI DATATRAY	35	Thirty five
153	316427	2023015400124572	SONAWANE MOHINI GIRDHAR	35	Thirty five
154	316429	2023015400124622	SONAWANE SAKSHI ISHWAR	35	Thirty five
155	316430	2023015400125157	SONAWANE SONAL DAULAT	35	Thirty five
156	316432	2023015400149844	SONAWANE TEJASWINI PUNDLIK	34	Thirty four
157	316433	2023015400125196	SONAWANE VAISHNAVI AMRUT	35	Thirty five
158	316434	2023015400125223	SURYAVANSHI SAKSHI YASHWANT	34	Thirty four
159	316435	2023015400282587	SURYAVANSHI MANISH RAJENDRA	30	Thirty
160	316436	2023015400132374	SURYAVANSHI SHUBHANGI SURESH	34	Thirty four
161	316437	2023015400132602	SUTAR VAIBHAV SHAMKANT	30	Thirty
162	316438	2023015400132215	TAVADE RAJ DIPAK	30	Thirty
163	316441	2023015400125471	THAKUR CHETANA CHHOTU	34	Thirty four
164	316443	2023015400132401	THORAT BHUMIKA SATISH	36	Thirty six
165	316444	2023015400125134	THORAT PRITIKA BHASKAR	35	Thirty five
166	316446	2023015400132745	VALVI AKASH RAVJI	30	Thirty
167	316447	2023015400124726	VALVI SACHIN FURTA	30	Thirty
168	316448	2023015400124781	VASAVE CHANDRASING KALUSING	29	Twenty nine



Shewant
IQAC Co-ordinator

[Signature]
PRINCIPAL

[Signature]
Dr. S.S. Patoke
Signature of Examiner

Date

Instruction: SSVPS Arts College, Shindkheda, Dist. Dhule
1. While writing the marks before whole & half, legible hand-writing, without any scratches or overwriting.
2. In case of scribbles or overwriting or corrections, please re-write the marks separately with your signature.
3. Use English for marks.
4. Usage of white pen is strictly prohibited.
S.S.V.P.S.'s Late S.D. Patil Alias Baburao Dada Arts, Commerce & Late M.D. Sisode Science College, Shindkheda, Dist. Dhule.



Kavayitri Bahinabai Chaudhari North Maharashtra University

A Grade NAAC Re-Accredited (4th Cycle) (A/geo-42601, Maharashtra (India))

<https://www.kbpu.ac.in/>

Blank Mark List For

B.Sc.(with Credits) - Regular-under CBCS [June-2022] Pattern - FY B.Sc. - Sem-II For April-2024

College : Shri Shivaji Vidya Prasarak Sanstha's Late S. D. Patil Alias Baburao Dada Arts, Commerce and Late M. D. Sisoda Science College (250042), Station Road, Shindkheda, Sindkhed, Dhule Pin: 425406

Paper Name: Environmental Studies (85555)		Field Work CA (Max Mark: 40 Min Mark: 16)		Count of Student: 170	
Sr. No.	Seat Number	PRN	Student Name	Marks	Total
169	316449	2023015400132471	WADILE DIVYANI VINAYAK	34	Thirty four
170	316450	2023015400132537	WADILE ROHIT MANOJ	34	Thirty four



Seat			
	MAC Co-ordinator SSVPS'S Arts, Commerce and Science College Shindkheda, Dist. Dhule	PRINCIPAL, S.S.V.P.S.'s, Late S.D. Patil alias Baburao Dada Arts, Commerce & Late M.D. Sisoda Science College, Shindkheda, Dist. Dhule.	Signature of Examiner Date
Instruction 1. While entering the marks, use only hand-writing, without any correction or over-writing. 2. In case of mistakes, over-writing or correction, rewrite the marks carefully, with your signature. 3. Use English for all entries. 4. Usage of whitener is strictly prohibited.			



Kavayitri Bahinabai Chaudhari North Maharashtra University

'A' Grade NAAC Re-Accredited (4th Cycle) Jaigam-425001, Maharashtra (India)
<https://nmj.digitalsuniversity.edu/>

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B.A. (with Credits) - Regular-under CBCS [June-2022] Pattern - F.Y. B.A. - Sem-II For April-2024

College : Shri Shivaji Vidya Prasarak Sanstha's Late S. D. Patil Alias Baburao Dada Arts, Commerce and Late M. D. Sisode Science College
(250042), Station Road., Shindkheda, Sindkhed, Dhule Pin: 425406

Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 16) Count of Student: 176

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
1	117038	2023015400282436	BACHHAV NUTAN DHARMRAJ	34	Thirty four
2	117039	2021015400081107	BAGUL DNYANESHVAR DINESH	30	Thirty
3	117040	2022015400141944	BAGUL PUNAM GANGAJI	34	Thirty four
4	117041	2023015400135426	BAGUL SAGAR MOHAN	30	Thirty
5	117042	2023015400142183	BAISANE MANOJ SUNIL	32	Thirty two
6	117043	2023015400147621	BAISANE PRAVIN YASHWANT	32	Thirty two
7	117044	2023015400275525	BAISANE PRIYANKA DEELIP	34	Thirty four
8	117045	2023015400343134	BHADANE CHETANA PRADIP	35	Thirty five
9	117046	2023015400123545	BHAMARE YOGESHWARI GANESH	34	Thirty four
10	117047	2023015400147571	BHIL AAKASH MACHINDRA	30	Thirty
11	117048	2023015400123611	BHIL ASHWINI SITARAM	32	Thirty two
12	117049	2023015400135812	BHIL NILESH DAYARAM	30	Thirty
13	117050	2023015400275935	BHIL PREM YASHWANT	30	Thirty
14	117051	2023015400148833	BHIL SUNIL SHRIRAM	30	Thirty
15	117052	2023015400149925	BHIL SUSHANT DNYANESHWAR	30	Thirty
16	117053	2023015400142794	BHIL VISHAL TUKARAM	34	Thirty four
17	117054	2023015400147837	BHOI GAYATRI MOTILAL	32	Thirty two
18	117055	2023015400135585	BHOI RAVINDRA AASARAM	32	Thirty two
19	117056	2023015400147594	BORASE DARSHAN ASHOK	30	Thirty
20	117057	2023015400148945	BORASE KAVERI ASHOK	34	Thirty four
21	117058	2023015400318122	BORASE NILESH CHHAGAN	32	Thirty two
22	117059	2023015400142951	BORASE SWAPNIL DEEPAK	30	Thirty
23	117060	2021015400080916	CHAVHAN ARCHANA SHARAD	34	Thirty four
24	117061	2023015400149786	CHAVHAN SUVRNA SHARAD	34	Thirty four
25	117062	2023015400123665	DESALE MAMATA DNYANESHWAR	34	Thirty four
26	117063	2023015400147377	DESHMUKH ROHINI PRAKASH	35	Thirty five
27	117064	2023015400150052	DHANGAR PUNAM SUDAM	34	Thirty four
28	117065	2023015400123715	FAKIR SARFRAJ MANGOOCHA	32	Thirty two



Shivaji

IQAC Co-ordinator

SSVPS Arts, Commerce

and Science College,

Shindkheda, Dist. Dhule

PRINCIPAL
S.S.V.P.S

Dr. S. S. Patole
Signature of Examiner

Date

Instruction

1. While entering the marks, please do not write marks separately with your signature.
2. In case of scratches, overwriting or correction, please do not write marks separately with your signature.
3. Use English number while entering marks.
4. Usage of white ballpoint pen is strictly prohibited.



Kavayitri Bahinabai Chaudhari North Maharashtra University

K Grade NAAC Re-Accredited (4th Cycle) Jalgaon-425001, Maharashtra (India)

<https://nmuj.digitalkuniversity.ac/>

Blank Mark List For

B.A.(with Credits) - Regular-under CBCS [June-2022] Pattern - F.Y. B.A. - Sem-II For April-2024

College : Shri Shivalji Vidya Prasarak Sanstha's Late S. D. Patil Altes Beburao Dada Arts, Commerce and Late M. D. Sisode Science College (250042), Station Road., Shindkheda, Shindkhed, Dhule Pin: 425406

Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 16) Count of Student: 178

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
29	117066	2023015400282467	GAYAKWAD NIRMAL ARVIND	32	Thirty two
30	117067	2023015400275912	GIRASE BHAGWAT ZULALSING	30	Thirty
31	117068	2023015400125898	GIRASE CHETANA BHAGWANSING	34	Thirty four
32	117069	2023015400147323	GIRASE DEVENDRA BHIMSING	30	Thirty
33	117070	2023015400147613	GIRASE DIVYANI KOMALSING	34	Thirty four
34	117071	2023015400282572	GIRASE DNYANESHWAR NARAYANSING	30	Thirty
35	117073	2022015400194973	GIRASE HARSHALA RAJENDRASING	34	Thirty four
36	117075	2023015400343126	GIRASE KANCHANBAI DNYANESHWAR	34	Thirty four
37	117076	2023015400123537	GIRASE KASHINATH DAGDUSING	32	Thirty two
38	117077	2023015400282602	GIRASE KRUSHNALI VIJAYSING	35	Thirty five
39	117078	2023015400142191	GIRASE NIKHIL UJANSING	32	Thirty two
40	117079	2023015400281561	GIRASE POOJA AMARSING	35	Thirty five
41	117080	2023015400124003	GIRASE PRIYANKA JITENDRA	35	Thirty five
42	117081	2023015400142747	GIRASE PRIYANKA SANJAYSING	34	Thirty four
43	117082	2023015400150967	GIRASE ROSHANI SURENDAR	34	Thirty four
44	117083	2022015400154191	GIRASE SARIKA KOMALSING	34	Thirty four
45	117084	2023015400148303	GIRASE SATTARSING KOMALSING	30	Thirty
46	117085	2023015400143372	GIRASE VARSHA SANTOSH	35	Thirty five
47	117087	2023015400142836	GIRASE VIJAYSING DAGESING	34	Thirty four
48	117088	2023015400142643	GOSAVI KUNDAN RATILALPURI	30	Thirty
49	117089	2023015400148961	ISHI KALYANI KAILAS	34	Thirty four
50	117090	2020015400051444	ISHI PRASHIK PANDHARINATH	34	Thirty four
51	117091	2023015400123681	JADHAV ANSH KANHAJYALAL	30	Thirty
52	117092	2023015400148326	JADHAV CHETAX SANJAY	30	Thirty
53	117093	2023015400142167	JADHAV DIPAK SURESH	30	Thirty
54	117094	2023015400123754	JADHAV GITANJALI SANJAY	32	Thirty two
55		2023015400147764	JAGTAP SHARAD VINAYAK	30	Thirty
56		2023015400282421	KAPURE AKSHAY NIMBA	30	Thirty



Signature
IQAC Co-ordinator
SSVPS'S Arts, Commerce
and Science College
Shindkheda, Dist. Dhule

Signature
PRINCIPAL
S.S.V.P.S
Arts, Commerce and Science College
Shindkheda

Signature
DR. S.S. Patole
Signature of Examiner
Date

- Instruction
1. While entering the marks, please ensure clarity, legibility and accuracy, without any scribbles.
 2. In case of scratches, the marks should be entered separately with your signature.
 3. Use English number while entering the marks.
 4. Usage of whitener is strictly prohibited.



Kavayitri Bahinabai Chaudhari North Maharashtra University

W Grade NAAC Re-Accredited (4th Cycle) Jaigam-425001, Maharashtra (India)

<https://kbcuniv.ac.in>

Blank Mark List For

B.A.(with Credits) - Regular-under CBCS [June-2022] Pattern - F.Y. B.A. - Sem-II For April-2024

College : Shri Shivaji Vidyapeeth Sanstha's Late S. D. Patil Alias Baburao Dada Arts, Commerce and Late M. D. Sisode Science College (250042), Station Road., Shindkheda, Sindkhed, Dhule Pin: 425406

Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 16) Count of Student: 175

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
57	117097	2023015400142724	KAPURE GAYATRI DAGADU	34	Thirty four
58	117098	2023015400136832	KAPURE KARISHMA RAJENDRA	34	Thirty four
59	117099	2023015400123986	KAPURE MAMATA KARBHARI	34	Thirty four
60	117100	2023015400123696	KAPURE MANISH PARSHURAM	32	Thirty two
61	117101	2023015400123746	KAPURE NAYAN AMBALAL	32	Thirty two
62	117102	2023015400148245	KAPURE TUSHAR HIRAMAN	32	Thirty two
63	117103	2023015400147544	KASBE DINESH BHASKAR	30	Thirty
64	117104	2023015400123657	KHARKAR KIRTI DATTU	34	Thirty four
65	117105	2023015400142771	KHATIK NADIM JAKIR	30	Thirty
66	117106	2023015400150936	KHATIK SHAIKH SANIYA SHAIKH RASHID	30	Thirty
67	117107	2023015400148676	KOLI KALYANI SURJAN	34	Thirty four
68	117108	2023015400148311	KOLI KARAN PRAKASH	30	Thirty
69	117109	2023015400148953	KOLI KARISHMA RAMKRISHNA	34	Thirty four
70	117110	2023015400142175	KOLI MANISHA NANDU	35	Thirty five
71	117111	2023015400147772	KOLI PAWAN SANTOSH	30	Thirty
72	117113	2023015400275904	KOLI RANJANA DILIP	34	Thirty four
73	117114	2023015400123634	KOLI ROSHANI PRAKASH	34	Thirty four
74	117115	2023015400275893	KOLI SAVITA RAJENDRA	34	Thirty four
75	117116	2023015400147636	KOLI SHITAL KAILAS	36	Thirty six
76	117117	2023015400142716	LAMBOLE KIRTIKA CHANDRAKANT	36	Thirty six
77	117118	2023015400282452	LOHAR NARENDRA TULSHIDAS	30	Thirty
78	117119	2023015400142732	MAHIDE RAJ EKNATH	30	Thirty
79	117120	2023015400142897	MALCHE ASHWINI SURESH	34	Thirty four
80	117121	2023015400135651	MALCHE VIJAY BAPU	30	Thirty
81	117122	2023015400123582	MALI HEMALATA SUKLAL	34	Thirty four
82	117124	2023015400123707	MALI NITA RAVINDRA	34	Thirty four
83	117125	2023015400123514	MARATHE PUJA KAILAS	36	Thirty six
84	117126	2023015400142763	MARATHE ROHIT DNYANESHWAR	30	Thirty



IOAC Co-ordinator
SSVPS Arts Commerce

PRINCIPAL
S.S.V.P.S

Dr. S. S. Patole
Signature of Examiner

Date

Instruction
1. While entering the marks, please ensure to enter the marks without any correction.
2. In case of scratches, over-writing or correction, please do write the marks separately with your signature.
3. Use English number while entering the marks.
4. Usage of whitener is strictly prohibited.



Kavayitri Bahinabai Chaudhari North Maharashtra University

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B.A. (with Credits) - Regular-under CBCS [June-2022] Pattern - F.Y. B.A. - Sem-II For April-2024

College : Shri Shivaji Vidya Prasarak Sanstha's Late S. D. Patil Alias Baburao Dada Arts, Commerce and Late M. D. Sisode Science College (250042), Station Road., Shindkheda, Sindkhed, Dhule Pin: 425406

Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 16) Count of Student: 176

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
85	117128	2023015400148237	MORE LAXMAN SURESH	32	Thirty two
86	117129	2023015400148292	MORE MANOJ NAVNATH	32	Thirty two
87	117130	2021015400073294	MORE MAYUR DILIP	32	Thirty two
88	117131	2023015400123762	MORE NALINI DILIP	36	Thirty six
89	117132	2023015400142875	MORE POONAM SANTOSH	36	Thirty six
90	117135	2023015400123553	NAGARALE DIKSHA BHATU	36	Thirty six
91	117136	2023015400282564	NAGARALE KRISHNA MAHENDRA	32	Thirty two
92	117137	2023015400143333	NIKAM MAYUR ABHIMAN	32	Thirty two
93	117138	2023015400123561	NIKUM PUNAM SURESH	34	Thirty four
94	117139	2023015400142612	PADAVI AJIT BASLYA	30	Thirty
95	117140	2023015400142682	PADAVI NIMA SHEELA	34	Thirty four
96	117141	2023015400149794	PADVI AMIT SAMA	32	Thirty two
97	117142	2023015400123947	PADVI BALI DOHARYA	32	Thirty two
98	117143	2021015400073286	PANDIT NITIN DNYANESHWAR	34	Thirty four
99	117144	2023015400147741	PARAVE DHIRAJ RAMESH	32	Thirty two
100	117145	2023015400147382	PARDESHI BHAVANA HARAKLAL	34	Thirty four
101	117146	2023015400142635	PARDESHI KAMINI MAHENDRA	34	Thirty four
102	117147	2023015400123955	PARDESHI MAYUR MOHAN	34	Thirty four
103	117148	2023015400327383	PARDESHI VAISHNAVI VASANT	34	Thirty four
104	117149	2023015400148284	PATIL APEKSHA DIPAK	35	Thirty five
105	117150	2023015400312855	PATIL BHUSHAN SHARAD	30	Thirty
106	117151	2023015400142755	PATIL CHAITALI PRATAP	34	Thirty four
107	117152	2023015400148222	PATIL CHANDRAKALA PREMCHAND	34	Thirty four
108	117154	2023015400142027	PATIL DIPAK GOVINDA	30	Thirty
109	117155	2023015400148276	PATIL DIPAK PRAKASH	30	Thirty
110	117156	2023015400142844	PATIL GAURAV RAJENDRA	30	Thirty
111	117158	2023015400142821	PATIL GAYATRI DNYANESHWAR	34	Thirty four
112	117158	2023015400136847	PATIL JAYASHRI RAJENDRA	34	Thirty four



Shreeamf

IQAC Co-ordinator

[Signature]
PRINCIPAL
S.S.V.P.S.

Shindkheda
Shindkheda

[Signature]
DR. S. S. Patil
Signature of Examiner

Date

- Instruction
1. While entering the marks, do not write any scribbles or over-writing.
 2. In case of scribbles, over-writing or corrections, please re-write the marks separately.
 3. Use English number while entering marks.
 4. Usage of white ink is strictly prohibited.



Kavayitri Bahinabai Chaudhari North Maharashtra University

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B.A.(with Credits) - Regular-under CBCS [June-2022] Pattern - F.Y. B.A. - Sem-II For April-2024

College : Shri Shivaji Vidya Prasarak Sanstha's Late S. D. Patil Alias Baburao Dada Arts, Commerce and Late M. D. Sisode Science College
(250042), Station Road., Shindkheda, Shindkhed, Dhule Pin: 425406

Paper Name: Environmental Studies (85555)		Field Work CA (Max Mark: 40 Min Mark: 16)		Count of Student: 176	
Sr. No.	Seat Number	PRN	Student Name	Marks	Total
113	117159	2023015400136155	PATIL LALITA GULAB	34	Thirty four
114	117160	2023015400123673	PATIL MEENAL LOTAN	34	Thirty four
115	117161	2023015400125881	PATIL NEHA RAVINDRA	36	Thirty six
116	117162	2023015400124026	PATIL NILAM SANTOSH	35	Thirty five
117	117163	2023015400312363	PATIL NILKANTH GOPAL	32	Thirty two
118	117165	2022015400170294	PATIL POOJA TUKARAM	35	Thirty five
119	117167	2023015400147822	PATIL RAJ CHINTAMAN	30	Thirty
120	117168	2023015400147346	PATIL RAJSHREE ASHOK	34	Thirty four
121	117169	2023015400142701	PATIL ROHINI ASHOK	34	Thirty four
122	117170	2023015400147806	PATIL ROSHANI DATTATRAY	34	Thirty four
123	117171	2023015400282444	PATIL SAKSHI VINAYAK	34	Thirty four
124	117172	2023015400282475	PATIL SANYOG DIPAK	32	Thirty two
125	117173	2023015400136824	PATIL SHRADDHA PRAKASH	34	Thirty four
126	117174	2023015400142805	PAWAR BHUMIKA KHANDU	32	Thirty two
127	117175	2023015400147563	PAWAR DARSHANA KAILAS	32	Thirty two
128	117176	2023015400149917	PAWAR DIPALI RAJENDRA	34	Thirty four
129	117177	2023015400148841	PAWAR GAYATRI SANJAY	34	Thirty four
130	117178	2023015400147814	PAWAR JAGRUTI SANJAY	34	Thirty four
131	117179	2021015400083323	PAWAR KIRTI ANIL	32	Thirty two
132	117180	2023015400123526	PAWAR RAKESH ASARAM	32	Thirty two
133	117181	2023015400124107	PAWAR AAKASH SAYSING	34	Thirty four
134	117182	2023015400142891	PAWARA MANGAL GULABSSING	34	Thirty four
135	117183	2023015400147586	PAWARA RAHUL VIJAY	28	Twenty eight
136	117184	2023015400147605	PAWARA RAKESH BHIKA	28	Twenty eight
137	117185	2023015400148214	PAWARA SANDIP JAGAN	28	Twenty eight
138	117186	2023015400124096	PAWARA WADYA INDYA	28	Twenty eight
139	117188	2023015400123522	PENDHARKAR DEVENDRA BHAUSAHEB	32	Thirty two
140	117188	2023015400142604	RAHASE VILAS GUNJARYA	30	Thirty



Shawank

IQAC Co-ordinator

SSVPS Arts, Commerce & Science College, Shindkheda, Dist. Dhule

[Signature]
PRINCIPAL
S.S.V.P.S.

Arts, Commerce & Science College, Shindkheda

[Signature]
DR. S.S. Patole
Signature of Examiner

Date

- Instruction
1. While writing the marks, please use a ball-point pen or black ink, without using a pen nib.
 2. In case of scratches, overwriting or corrections, the marks should be written separately with your signature.
 3. Use English number while writing the marks.
 4. Usage of whitener is strictly prohibited.



Kavayitri Bahinabai Chaudhari North Maharashtra University

A Grade NAAC Re-Accredited (4th Cycle) Jalgaon-425001, Maharashtra (India)
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B.A.(with Credits) - Regular-under CBCS [June-2022] Pattern - F.Y. B.A. - Sem-II For April-2024

College : Shri Shivalji Vidya Prasarak Sanstha's Late S. D. Patil Alias Baburao Dada Arts, Commerce and Late M. D. Sisode Science College
(250042), Station Road., Shindkheda, Shindhed, Dhule Pin: 425405

Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 10) Count of Student: 176

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
141	117190	2023015400142674	SAINDANE AMIT RAVAN	34	Thirty four
142	117191	2023015400147795	SAINDANE ASHWINI JAGDISH	34	Thirty four
143	117192	2023015400147787	SAINDANE DIVYANI DNYANESHWAR	34	Thirty four
144	117193	2023015400148261	SAINDANE ISHVAR JAGDISH	32	Thirty two
145	117194	2023015400142202	SAINDANE JATIN TARKESHWAR	32	Thirty two
146	117195	2023015400282491	SAINDANE NISHA AMRUT	34	Thirty four
147	117196	2023015400123723	SAKAT JAGADISH JAGAN	32	Thirty two
148	117198	2023015400148205	SHIMPI DIVYA SANJAY	35	Thirty five
149	117199	2023015400123842	SHINDE KAVITA PRALHAD	35	Thirty five
150	117200	2023015400148992	SHIRSATH RAJ SUBHASH	32	Thirty two
151	117201	2022015400160075	SONAR SIDDHI SANDIP	34	Thirty four
152	117202	2023015400135724	SONAWANE HEMANT DATTATRAY	30	Thirty
153	117204	2023015400135732	SONAWANE KARTIK PRABHAKAR	34	Thirty four
154	117206	2022015400135754	SONAWANE PRAVIN NAMDEV	32	Thirty two
155	117207	2023015400148984	SONAWANE PRAVIN RAJU	30	Thirty
156	117208	2023015400123964	SONAWANE PUNAM NAMDEV	35	Thirty five
157	117209	2023015400123603	SONAWANE SADHANA BHILA	34	Thirty four
158	117210	2023015400143364	SONAWANE SAGAR NARAYAN	30	Thirty
159	117211	2023015400312871	SONAWANE SANDEEP PRAVIN	32	Thirty two
160	117212	2023015400123971	SUTAR PRITI RAJENDRA	35	Thirty five
161	117213	2023015400123983	SUTAR PRIYA RAJENDRA	34	Thirty four
162	117214	2023015400147756	THAKARE CHETNA SHALESH	34	Thirty four
163	117216	2023015400147393	THAKARE RAVINDRA CHANDU	30	Thirty
164	117217	2023015400149001	THAKARE SANI SHAM	34	Thirty four
165	117218	2023015400123731	THAKARE SONALI RAVINDRA	35	Thirty five
166	117219	2023015400142666	THAKARE SUNIL ROHIDAS	30	Thirty
167	117220	2023015400150975	VALVI CHHAGAN HURYA	30	Thirty
168	117221	2023015400147364	VALVI JYOTI LALSING	34	Thirty four



Seal

Shreeram
IOAC Co-ordinator
SSVPS Arts, Commerce
and Science College,
Shindkheda, Dist. Dhule

[Signature]
PRINCIPAL
S.S.V.P.S
Arts, Com & Sci College
Shindkheda

[Signature]
Dr. S. S. Patole
Signature of Examiner

Date

- Instruction
1. While entering the marks, please use the back portion, without any scratches or over-writing.
 2. In case of scratches, over-writing or correction, please mark it separately with your signature.
 3. Use English number while entering marks.
 4. Usage of whiteball is strictly prohibited.



Kavayitri Bahinabai Chaudhari North Maharashtra University

'A' Grade NAAC Re-Accredited (4th Cycle) Jaipur-425001, Maharashtra (India)

<http://www.kbcuniversity.ac.in>

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B.A. (with Credits) - Regular-under CBCS [June-2022] Pattern - F.Y. B.A. - Sem-II For April-2024

College : Shri Shivaji Vidya Prasarak Sanshodh's Late S. D. Patil Alias Baburao Dada Arts, Commerce and Late M. D. Sisode Science College
(250042), Station Road., Shindkheda, Shindkhed, Dhule Pin: 425406

Paper Name: Environmental Studies (85555) Field Work CA (Max Mark: 40 Min Mark: 16) Count of Student: 176

Sr. No.	Seat Number	PRN	Student Name	Marks	Total
169	117222	2023015400148253	VALVI MANISHA RAMA	34	Thirty four
170	117223	2023015400281537	VALVI PRAMILA RAMESH	34	Thirty four
171	117224	2023015400123576	VALVI RANJIT KARMA	30	Thirty
172	117225	2023015400150944	VALVI RASHILA BHIDAS	34	Thirty four
173	117226	2023015400149902	VALVI RATILAL KHEMSING	30	Thirty
174	117227	2023015400147385	VASAVE ARJUN TEMBARYA	30	Thirty
175	117228	2023015400147331	VASAVE UMESH KISAN	30	Thirty
76	117229	2023015400123584	WADILE MAYURI SANJAY	34	Thirty four



Shekhar

IQAC Co-ordinator
SSVPS Arts, Commerce
and Science College,
Shindkheda, Dist. Dhule

[Signature]
PRINCIPAL

S.S.V.P.S

Arts, Commerce & Science College
Shindkheda

[Signature]
Dr. S. S. Patil
Signature of Examiner

Date

Instruction

1. While entering the marks, candidates should write without any hesitation.
2. In case of erasures, overwriting or correction, the marks separately will not be given.
3. Use English number while entering marks.
4. Usage of white is strictly prohibited.



S.S.V.P. Sanstha's Parent
**Late S.D. Patil Alias Baburao Dada Arts, Commerce
 and Late M.D. Sisode Science College**

Shindkheda - 425406, Dist. Dhule (M.S.) Tel. : (02566) 222239
 web : www.ssvpsacs.ac.in e-mail : ssvps.snk@gmail.com

Act. Principal
Prof. Dr. N. S. Pawar
 M.Sc., Ph.D.

Ref. No. ACS/SNK/ 202

Date : / / 202

Department of Physics

Project List of Students (Academic Year 2023-24)

Sr. no.	Seat no.	Name of the Student	Project Title
1	348557	Girase Jaya Dnyaneshwar	Clap Switch
2	348558	Jagdale Jagruti Govind	Automatic Street Light
3	348559	Jagtap Vaishnavi Sanjay	Fire alert by audio and visual
4	348560	Patil Mamta Dnyaneshwar	Metal Detector
5	348561	Patil Sushama Kishor	Liquid level Sensor




PRINCIPAL
 S.S.V.P.S's Late S.D. Patil Alias
 Baburao Dada Arts, Commerce &
 Late Bhausaheb M.D. Sisode Science
 College Shindkheda, Dist. Dhule

Date: 17/05/2024



INTERNAL QUALITY ASSURANCE CELL
 FIELD WORK OF ORGANIC CHEMISTRY STUDIES
 WORK PLACE :- TAHASIL SHINDKHEDA
 ACADEMIC YEAR :- (2023-2024)

Name of Faculty	Total Students	Roll No	Title / Project Name Allotted to Students	Place of work	① Du
Science	20	1 to 4	Microwave assisted solvent free, one pot, three component synthesis of 2-amino-2-phenylenes using p-dimethyl aminopyridine (DMAP)	Tahasil Shindkheda	30 Da
		5 to 11	Microwave assisted solvent free, one pot, three component synthesis of 2-amino-2-phenylenes using Magnesium Oxide (MgO)	Tahasil Shindkheda	30 Da
		12 to 15	Microwave assisted solvent free, one pot, three component synthesis of 2-amino-2-phenylenes using Sodium Hydroxide (NaOH)	Tahasil Shindkheda	30 Da
		16 to 18	Synthesis of E, 1-phenyl prop-2-en-1-one derivative	Tahasil Shindkheda	30 Da
		19 to 23	Microwave assisted solvent free, one pot, three component synthesis of 2-amino, 2-phenylenes using 1,8-diazobicyclo 5.4.0 undec-7-ene	Tahasil Shindkheda	30 Da

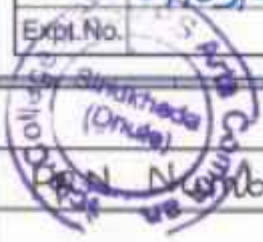
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PRINCIPAL

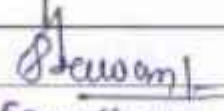
IQAC Co-ordinator
 SSVPS Arts, Commerce and Science College,
 Shindkheda, Dist. Dhule

S.S.V.P. Late S.D. Pillai Arts, Commerce and Science College, Shindkheda, Dist. Dhule

Date: 17/05/2024
Expt.No.



Roll No	Students Name	Gender
1)	2019015400095847 Ambikkar Puja Ajay	Female
2)	2022015400328497 chaudhari Ekta Sudhakar	Female
3)	2017015400239422 Patil chaaya Navneet	Female
4)	2018015400357704 patil piyanka Yashwant	Female
5)	2019015400106035 Girase Anjaneshwar Bhatatsing	Male
6)	2018015400357526 Girase Sagat Devendra	Male
7)	2018015400356933 Jadhav peethmesh Sanjay	Male
8)	2018015400357205 Girase Anjali Suresh	Female
9)	2018015400059634 Patil Tushar Jitendra	Male
10)	2018015400360544 patil pravin Basku	Male
11)	2018015400357043 Mahale Rakesh Ravindra	Male
12)	2019015400295165 Girase Manisha Adhar	Female
13)	2019015400041742 Bedse vidya Madhukar	Female
14)	2019015400095027 pawar Yogita Shantaram	Female
15)	2018015400377727 Rajput Pujaben Bhikambhai	Female
16)	2018015400189294 Karanakar Kalpesh pravin	Male
17)	2017015400133695 patil Hemant Hiralal.	Male
18)	2019015400044446 patil Dipak Sambhaji	Male
19)	2019015400293932 Karnavat Ojaswi Dilip	Female
20)	2019015400210011 patil Divya Sunil	Female
21)	2019015400293882 Patil pallavi Jitendra	Female
22)	2018015400357387 patil Shubhangi Sagatlal	Female
23)	2018015400357171 Pawar Nikita Uhas	Female



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and Science College,
Shindkheda, Dist. Dhule



PRINCIPAL
S. S. V. P. S. Late S. D. Patil alias
Baburao Dada Arts, Commerce &
Late M. D. Shinde Science
College, Shindkheda, Dist. Dhule
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