



J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu, India
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.
Website : www.jkkmmrfpharmacy.edu.in |E-Mail : principal@jkkmmrfpharmacy.edu.in
Contact No. : +919789456750, +919943069944, +919943066944

ADD ON COURSE	AIR ANALYSIS
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2021-2022
DATE	05.10.2021-29.10.2021
VENUE	SEMINAR HALL

REPORT

RESOURCE PERSONS:

1. DR. N. SENTHIL KUMAR M.PHARM, Ph.D.,

PRINCIPAL, JKKMMRF'S ANNAL JKK SAMPOORANIAMMAL
COLLEGE OF PHARMACY, KOMARAPALAYAM.

2. DR.T.VENKATACHALAM M.PHARM, Ph.D.,

PROFESSOR, JKKMMRF'S ANNAL JKK SAMPOORANIAMMAL
COLLEGE OF PHARMACY, KOMARAPALAYAM.

No. of students enrolled: 64

No. of students certified: 62

Objective:

The objective of this value added air analysis program provides the information about their and its analysis. It provides vast knowledge on the hardness of water, testing the hardness of air borne and water bornw methods. These value added program provides additional knowledge to the students other than their academic knowledge.

Learning outcomes:

- Provides knowledge on potable air
- Develops industrial skills on AIR softening

The students were actively participated in these course and gained knowledge on AIR ANALYSIS'

R. Vignesh
Programme
Co-ordinator

Dr. N.SENTHILKUMAR
PRINCIPAL
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMILNADU, INDIA.

[Signature]
HOD



[Signature]
Principal

Dr. N. SENTHILKUMAR,
PRINCIPAL,
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,
ETHIRMEDU, KOMARAPALAYAM - 638 183.
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REF.NO:JKKM/PG-PHARM.CHEM/REQ/2021/001

Date: 03.10.2021

From

Department of Pharmaceutical chemistry,
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy.
Komarapalayam, Namakkal [Dist]
Tamil Nadu, PIN:638183.

To

The Principal,
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy.
Komarapalayam, Namakkal [Dist]
Tamil Nadu, PIN:638183.

Respected Sir,

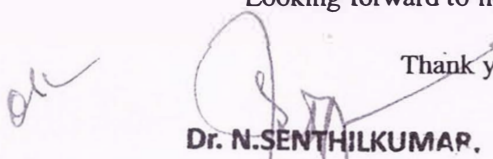
Subject:Letter for requesting Permission to Conduct an ADD ON COURSE regarding:-

We Are writing this letter to request permission to conduct a seminar in the SEMINAR HALL on 05.10.2021 to 29.10.2021.Wewish to conduct a seminar regarding the AIR ANALYSIS. We believe this will be a very informative session that many students will wish to attend.

We request you to kindly permit to conduct training program as this would be a great opportunity for Students to learn all about AIR ANALYSIS that would help a great deal to shape the students.

Looking forward to hearing from you.

Thank you,


Dr. N.SENTHILKUMAR,
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
NAMAKKAL DISTRICT, TAMILNADU, INDIA.


Dr. N.SENTHILKUMAR,
PRINCIPAL

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ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY
ETHIRMEDU, KOMARAPALAYAM - 638 183.
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Yours sincerely


Programme Co-ordinator





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CIRCULAR

This is informto the I,III,V& VII-B,PHARM Students that the following value added course can be conducted by the Department of Pharmaceutical Chemistry, JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM and it will be commenced as per the schedule:

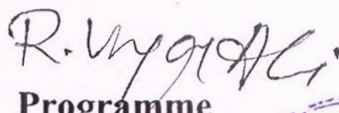
Course Name	Schedule	Duration	Venue	Resource Person
AIR	05.10.2021	32 HRS	SEMINAR HALL	Dr. N. Senthilkumar
ANALYSIS	to			&
	29.10.2021			Dr. T. Venkatachalam

All the above mentioned students must enrol and actively participate in the course without fail.

NOTE: Certificates should be issued to all the students after completion of the course and examination.


Dr. N.SENTHILKUMAR,
PRINCIPAL

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R. Vignesh
Programme
Co-ordinator




HOD


Principal
Dr. N. SENTHILKUMAR,
PRINCIPAL,

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DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2021-2022
DATE	05.10.2021-29.10.2021
VENUE	SEMINAR HALL

SYLLABUS

DATE	HOURS	TOPIC	SUB TOPICS	RESOURCE PERSON
05.10.2021	6HRS	AIR ANALYSIS	INTRODUCTION	Dr.N.Senthilkumar
10.10.2021	5HRS		AIRE BORNE & WATER BORNE	
15.06.2021	5 HRS		DUST EXPOSURE	
20.06.2021	5HRS		FLOW RATE & SAMPLING	Dr. T.Venkatachalam
25.06.2021	5 HRS		VOLUME MEASUREMENT	
29.10.2021	6 HRS		CONCLUSION	


Dr. N.SENTHILKUMAR,
PRINCIPAL

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BROCHURE



**JKKMMRF'S ANNAI JKK
SAMPOORANLAMMAL
COLLEGE OF PHARMACY,
KOMARAPALAYAM.**

**DEPARTMENT OF PHARMACEUTICAL
CHEMISTRY**

TOPIC: AIR ANALYSIS

VENUE: SEMINAR HALL

DATE: 05.10.2022 TO 29.10.2022

TIME: 9.00 am to 6.00 pm



COURSE SCHEDULE:

INTRODUCTION

WORKPLACE AIR

ADVANCE IN FLOW INJECTION ANALYSIS

AND RELATED TECHNIQUES

GAS/ HIGH-SPEED GAS
CHROMATOGRAPHY

INDOOR AIR SAMPLING

LIQUID MEMBRANES, GREEN ANALYTICAL

CHEMISTRY

Resource person:

**Dr.N.SENTHILKUMAR, M.Pharm.,PH.D.,
PRINCIPAL,
JKKMMRF'S Annai JKK Sampooranlammal
College of Pharmacy, Komarapalayam.**



**Dr.T.VENKATACHALAM, M.Pharm.,PH.D.,
Professor,
JKKMMRF'S Annai JKK Sampooranlammal
College of Pharmacy, Komarapalayam.**



**Dr. N.SENTHILKUMAR,
PRINCIPAL**

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DEPARTMENT	PHARMACEUTICAL CHEMISTRY
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VENUE	SEMINAR HALL

LIST OF STUDENTS ENROLLED FOR THE COURSE

S.NO	REG.NO	NAME OF THE STUDENTS	COURSE
1	561958107	KARTHICK S	B.PHARM[SEM-VII]
2	561958108	MANIKANDAN M	B.PHARM[SEM-VII]
3	561958110	PRAVEEN CHANDRAMANI	B.PHARM[SEM-VII]
4	561958111	PUDHUVASANTH T	B.PHARM[SEM-VII]
5	561958112	RAJAGANAPATHI P	B.PHARM[SEM-VII]
6	561958113	SARANKUMAR B	B.PHARM[SEM-VII]
7	561958114	SWETHA P	B.PHARM[SEM-VII]
8	561958115	VIKRAMA KARTHIK E	B.PHARM[SEM-VII]
9	561958116	YOGESH K	B.PHARM[SEM-VII]
10	561958083	SHRI HARIDHA K	B.PHARM[SEM-V]
11	561958084	SIVANANDHAN P	B.PHARM[SEM-V]
12	561958085	SOWMIYA R	B.PHARM[SEM-V]
13	561958086	SUDEEP CHANDRAN	B.PHARM[SEM-V]
14	561958087	SUDHARSAN S	B.PHARM[SEM-V]
15	561958088	SUMITHA M	B.PHARM[SEM-V]
16	561958090	SUSANTHKUMAR R	B.PHARM[SEM-V]
17	561958092	TAMILSELVAN M A	B.PHARM[SEM-V]
18	561958093	UMA MAHESWARI M	B.PHARM[SEM-V]
19	561958095	VIDHYA DHARSHNI V	B.PHARM[SEM-V]
20	561958096	VIGNESHWARAN B	B.PHARM[SEM-V]
21	561958097	VIJAYA DEVAN G	B.PHARM[SEM-V]
22	560020507593	VENKATESH S	B.PHARM[SEM-III]
23	560020507594	VIGNESH K	B.PHARM[SEM-III]
24	560020507595	VIGNESH R	B.PHARM[SEM-III]
25	560020507596	VIGNESHWARAN R	B.PHARM[SEM-III]
26	560020507597	VIJAY R	B.PHARM[SEM-III]



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27	560020507598	VISHWA S	B.PHARM[SEM-III]
28	560020507599	YASAR ARAFATH H	B.PHARM[SEM-III]
29	BPY/1829/2021-22	ARULKUMAR G	B.PHARM[SEM-III]
30	BPY/1830/2021-22	BALAMURUGAN S	B.PHARM[SEM-III]
31	BPY/1831/2021-22	HEMAVARSHINY K	B.PHARM[SEM-III]
32	BPY/1832/2021-22	KANNAN M	B.PHARM[SEM-III]
33	BPY/1833/2021-22	KARTHIK K	B.PHARM[SEM-III]
34	BPY/1834/2021-22	LOKESH R	B.PHARM[SEM-III]
35	BPY/1835/2021-22	NAVEENKUMAR M	B.PHARM[SEM-III]
36	BPY/1836/2021-22	PONNUVEL M	B.PHARM[SEM-III]
37	BPY/1837/2021-22	PRABHU M	B.PHARM[SEM-III]
38	BPY/1838/2021-22	SARAN R	B.PHARM[SEM-III]
39	BPY/1807/2021-22	VELMURUGAN D	B.PHARM[SEM-III]
40	BPY/1728/2021-22	ABDULLAAH S	B.PHARM[SEM-I]
41	BPY/1729/2021-22	ABITHA SRI J	B.PHARM[SEM-I]
42	BPY/1730/2021-22	AJITH KUMAR M	B.PHARM[SEM-I]
43	BPY/1731/2021-22	ANBARASAN B	B.PHARM[SEM-I]
44	BPY/1732/2021-22	ARISHKUMAR V	B.PHARM[SEM-I]
45	BPY/1733/2021-22	DEEPAK M	B.PHARM[SEM-I]
46	BPY/1734/2021-22	DHANUSH A	B.PHARM[SEM-I]
47	BPY/1735/2021-22	DHANUSHKUMAR P	B.PHARM[SEM-I]
48	BPY/1736/2021-22	DHARSANA K	B.PHARM[SEM-I]
49	BPY/1737/2021-22	DHARSHINI S	B.PHARM[SEM-I]
50	BPY/1738/2021-22	DHINA S	B.PHARM[SEM-I]
51	BPY/1739/2021-22	DHIVYA S	B.PHARM[SEM-I]
52	BPY/1740/2021-22	EDWIN THOMAS G	B.PHARM[SEM-I]
53	BPY/174/2021-22	ESHA T	B.PHARM[SEM-I]
54	BPY/1742/2021-22	GANANATHAN P	B.PHARM[SEM-I]
55	BPY/1743/2021-22	GEONITH M	B.PHARM[SEM-I]
56	BPY/1744/2021-22	GIRINATH K	B.PHARM[SEM-I]
57	BPY/1745/2021-22	GOKUL V	B.PHARM[SEM-I]
58	BPY/1746/2021-22	GOPIKASRI S	B.PHARM[SEM-I]
59	BPY/1747/2021-22	GOPINATH K	B.PHARM[SEM-I]
60	BPY/1748/2021-22	GOPINATH S	B.PHARM[SEM-I]
61	BPY/1749/2021-22	GOUTHAM S V	B.PHARM[SEM-I]
62	BPY/1750/2021-22	GOWRISANKAR M	B.PHARM[SEM-I]
63	BPY/1751/2021-22	GUNASEKARAN V	B.PHARM[SEM-I]
64	BPY/1752/2021-22	GURUPRASATTH S K	B.PHARM[SEM-I]



Dr. N. SENTHILKUMAR,
PRINCIPAL,
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1	561958107	KARTHICK S	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
2	561958108	MANIKANDAN M	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
3	561958110	PRAVEEN CHANDRAMAN I	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
4	561958111	PUDHUVASANTH T	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
5	561958112	RAJAGANAPATHI P	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
6	561958113	SARANKUMAR B	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
7	561958114	SWETHA P	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
8	561958115	VIKRAMAKARTHIK E	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
9	561958116	YOGESH K	B.PHARM[SEM-VII]	✓	✓	✓	✓	✓	✓
10	561958083	SHRI HARIDHAK	B.PHARM[SEM-V]	✓	✓	✓	✓	✓	✓



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12	561958085	SOWMIYA R *	B.PHARM[SEM-V]	✓	✓	✓	✓	✓	✓
13	561958086	SUDEEP CHANDRAN	B.PHARM[SEM-V]	✓	✓	✓	✓	✓	✓
14	561958087	SUDHARSAN S	B.PHARM[SEM-V]	✓	✓	✓	✓	✓	✓
15	561958088	SUMITHA M *	B.PHARM[SEM-V]	✓	✓	✓	✓	✓	✓
16	561958090	SUSANTHKUM AR R	B.PHARM[SEM-V]	✓	✓	✓	✓	✓	✓
17	561958092	TAMILSELVAN M A	B.PHARM[SEM-V]	✓	✓	✓	✓	✓	✓
18	561958093	UMA MAHESWARI M	B.PHARM[SEM-V]	✓	✓	✓	✓	✓	✓
19	561958095	VIDHYA DHARSHNI V *	B.PHARM[SEM-V]	✓	✓	✓	✓	✓	✓
20	561958096	VIGNESHWAR AN B	B.PHARM[SEM-V]	✓	✓	✓	✓	✓	✓
21	561958097	VIJAYA DEVAN G *	B.PHARM[SEM-V]	✓	✓	✓	✓	✓	✓
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23	560020507594	VIGNESH K *	B.PHARM[SEM- III]	✓	✓	✓	✓	✓	✓
24	560020507595	VIGNESH R	B.PHARM[SEM- III]	✓	✓	✓	✓	✓	✓
25	560020507596	VIGNESHWARAN R *	B.PHARM[SEM- III]	✓	✓	✓	✓	✓	✓
26	560020507597	VIJAY R *	B.PHARM[SEM- III]	✓	✓	✓	✓	✓	✓
27	560020507598	VISHWA S	B.PHARM[SEM- III]	✓	✓	✓	✓	✓	✓
28	560020507599	YASAR ARAFATH H	B.PHARM[SEM- III]	✓	✓	✓	✓	✓	✓
29	BPY/1729/2021-22	ARULKUMAR G	B.PHARM[SEM- III]	✓	✓	✓	✓	✓	✓
30	BPY/1730/2021-22	BALAMURUGAN S	B.PHARM[SEM- III]	✓	✓	✓	✓	✓	✓
31	BPY/1731/2021-22	HEMAVARSHINY K	B.PHARM[SEM- III]	✓	✓	✓	✓	✓	✓
32	BPY/1732/2021-22	KANNAN M	B.PHARM[SEM- III]	✓	✓	✓	✓	✓	✓
33	BPY/1733/2021-22	KARTHIK K	B.PHARM[SEM- III]	✓	✓	✓	✓	✓	✓



Dr. N. Senthilkumar,
Principal

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35	BPY/1735/2021-22	NAVEENKUMAR M	B.PHARM[SEM-III]	✓	✓	✓	✓	✓	✓
36	BPY/1736/2021-22	PONNUVEL M	B.PHARM[SEM-III]	✓	✓	✓	✓	✓	✓
37	BPY/1737/2021-22	PRABHU M	B.PHARM[SEM-III]	✓	✓	✓	✓	✓	✓
38	BPY/1738/2021-22	SARAN R	B.PHARM[SEM-III]	✓	✓	✓	✓	✓	✓
39	BPY/1739/2021-22	VELMURUGAN D	B.PHARM[SEM-III]	✓	✓	✓	✓	✓	✓
40	BPY/1728/2021-22	ABDULLAAH S	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
41	BPY/1729/2021-22	ABITHA SRI J	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
42	BPY/1730/2021-22	AJITH KUMAR M	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
43	BPY/1731/2021-22	ANBARASAN B	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
44	BPY/1732/2021-22	ARISHKUMAR V	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
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46	BPY/1734/2021-22	DHANUSH A	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
47	BPY/1735/2021-22	DHANUSHKUMAR P	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
48	BPY/1736/2021-22	DHARSANA K	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
49	BPY/1737/2021-22	DHARSHINI S	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
50	BPY/1738/2021-22	DHINA S	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
51	BPY/1739/2021-22	DHIVYA S	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
52	BPY/1740/2021-22	EDWIN THOMAS G	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
53	BPY/1741/2021-22	ESHA T	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
54	BPY/1742/2021-22	GANANATHAN P	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
55	BPY/1743/2021-22	GEONITH M	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
56	BPY/1744/2021-22	GIRINATH K	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
57	BPY/1745/2021-22	GOKUL V	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
58	BPY/1746/2021-22	GOPIKASRI S	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
59	BPY/1747/2021-22	GOPINATH K	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓

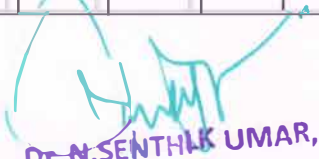


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NAMAKKAL DISTRICT, TAMILNADU, INDIA.

60	BPY/1748/2021-22	GOPINATH S	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
61	BPY/1749/2021-22	GOUTHAM S V	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
62	BPY/1750/2021-22	GOWRISANK AR M	B.PHARM[SEM-I]	✓	✓	✓	✓	✓	✓
63	BPY/1751/2021-22	GUNASEKAR AN V	B.PHARM[SEM-I]	A	A	A	A	✓	✓
64	BPY/1752/2021-22	GURUPRASAT TH S K	B.PHARM[SEM-I]	✓	A	✓	A	A	✓




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ADD ON COURSE	AIR ANALYSIS
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2021-2022
DATE	05.10.2021-29.10.2021
VENUE	SEMINAR HALL

NAME : KARTHICK S

COURSE : B.PHARM (SEM-VII)

ANSWER ALL THE QUESTION:

DATE: 29.10.2021

MULTIPLE CHOICE QUESTION

MARKS: 20

1. What is the principle behind which opacity monitors/transmission meters work?
 - a) Change in capacitance for various gaseous media, between two stationary plates
 - b) Pressure exerted by a fixed volume of gas enclosed in a container of specific dimension
 - c) Scattering of light transmitted through a gas stream
 - d) None of the mentioned
2. Are any of the following monitors used to measure the concentration of particular gases from the exhaust generated in vehicles?
 - a) Opacity monitors
 - b) Gaseous emission monitors
 - c) Opacity & Gaseous emission monitors
 - d) None of the mentioned
3. What does the abbreviation NDIR stand for, in the category of spectrometric analysers?
 - a) Non-Destructive Integrated Restoration
 - b) Neo-Destructive Integrated Radiation
 - c) Non-Dispersive Infrared
 - d) Neo-Dispersive Integrated Radiation
4. Non-Dispersive Ultraviolet (NDUV) analysers are primarily used to detect which of the following two gases?
 - a) Oxygen and Carbon Dioxide
 - b) Oxygen and Nitrogen Dioxide
 - c) Nitrogen Dioxide and Sulphur Dioxide
 - d) Sulphur Dioxide and Oxygen
5. NDUV monitors use a reference gas to analyse other gases.
 - a) True
 - b) False
6. NDUV analysis is also known as the differential absorption.

True



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- b) False
7. Fluorescence analysers are used to analyse which of the following gases?
- a) Nitrogen dioxide
 - b) Sulphur dioxide
 - c) Sulphur trioxide
 - d) Nitrous oxide
8. Electro analytical monitors rely on which of the following methods?
- a) Polarography and ampere metric analysis
 - b) Polarography and electro catalysis
 - c) Polarography, electro catalysis and conductivity
 - d) All of the mentioned
9. Which of the following analyser is used for oxygen analysis?
- a) Electro catalytic
 - b) Polarographic
 - c) Conductive
 - d) Amperometric
10. In-situ cross stack analysers work behind which of the following principles?
- a) Differential absorption spectroscopy
 - b) Gas-filter correlation spectroscopy
 - c) Differential absorption & Gas-filter correlation spectroscopy
 - d) None of the mentioned
11. In-situ in-stack analysers are used for measuring concentrations of which of the following gases?
- a) Ammonia
 - b) Sulphur dioxide
 - c) Nitrogen monoxide
 - d) All of the mentioned
12. What is the disadvantage of using conductometric analysers?
- a) Low sensitivity
 - b) Interfering gases must be removed before monitoring process
 - c) Medium used to measure change in conductivity is expensive
 - d) All of the mentioned
13. Flame photometric analysers are specific to sulphur compounds.
- a) True
 - b) False
14. Air shed modelling takes into account the effects of only stationary sources and not the mobile sources of pollution.
- a) True
 - b) False
15. What is the primary standard level for carbon monoxide for assuring air quality?
- a) 10ppm



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NAMAKKAL DISTRICT. TAMILNADU. INDIA.

- b) 90ppm
- c) 1ppm
- d) 9ppm

16. What is the primary function(s) of the alveoli?

- a) Transfer of oxygen to the blood
- b) Removal of carbon dioxide from the blood
- c) Transfer of toxic substances to the blood
- d) All of the mentioned

17. The velocity of air reduces to zero by the time it reaches the bronchi.

- a) True
- b) False

18. Which of the following pollutants is the major contributor to photochemical smog?

- a) Peroxy nitrates
- b) Hydroper oxides
- c) Nitrogen dioxide
- d) Ozone

19. How does increase in temperature affect air pollution?

- a) Higher temperatures reduce air pollution
- b) Higher temperatures increase air pollution.
- c) Temperature does not affect the air pollution levels
- d) Humidity factor is also necessary to predict variance of air pollution with temperature

20. Ocean is a source for carbon monoxide.

- a) True
- b) False



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ADD ON COURSE	AIR ANALYSIS
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2021-2022
DATE	05.10.2021-29.10.2021
VENUE	SEMINAR HALL

ANSWER ALL THE QUESTION:

DATE:29.10.2021

MULTIPLE CHOICE QUESTION

MARKS:20

1.This set of Environmental Science Multiple Choice Questions & Answers (MCQs) focuses on “Air Pollution – Analysis”.

1. What is the principle behind which opacity monitors/transmissometers work?

- Change in capacitance for various gaseous media, between two stationary plates
- Pressure exerted by a fixed volume of gas enclosed in a container of specific dimension
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- Oxygen and Carbon Dioxide
- Oxygen and Nitrogen Dioxide
- Nitrogen Dioxide and Sulphur Dioxide**
- Sulphur Dioxide and Oxygen

5. NDUV monitors use a reference gas to analyse other gases.

a) True



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b) False

6. NDUV analysis is also known as the differential absorption.

- a) True
- b) False

7. Fluorescence analysers are used to analyse which of the following gases?

- a) Nitrogen dioxide
- b) Sulphur dioxide
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- a) True
- b) False

14. Airshed modelling takes into account the effects of only stationary sources and not the mobile sources of pollution.

- a) True




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b) **False**

15. What is the primary standard level for carbon monoxide for assuring air quality?

- a) 10ppm
- b) 90ppm
- c) 1ppm
- d) **9ppm**

16. What is the primary function(s) of the alveoli?

- a) Transfer of oxygen to the blood
- b) Removal of carbon dioxide from the blood
- c) Transfer of toxic substances to the blood
- d) **All of the mentioned**

17. The velocity of air reduces to zero by the time it reaches the bronchi.

- a) True
- b) **False**

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- c) Nitrogen dioxide
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- c) Temperature does not affect the air pollution levels
- d) Humidity factor is also necessary to predict variance of air pollution with temperature

20. Ocean is a source for carbon monoxide.

- a) **True**
- b) False




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ADD ON COURSE	AIR ANALYSIS
DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2021-2022
DATE	05.10.2021-29.10.2021
VENUE	SEMINAR HALL

STUDENTS MARKSHEETS

S.NO	REG.NO	NAME OF THE STUDENTS	COURSE	MRKS SCORED	%MARKS
1	561958107	KARTHICK S	B.PHARM[SEM-VII]	19	95%
2	561958108	MANIKANDAN M	B.PHARM[SEM-VII]	18	90%
3	561958110	PRAVEEN CHANDRAMANI	B.PHARM[SEM-VII]	17	85%
4	561958111	PUDHUVASANTH T	B.PHARM[SEM-VII]	17	85%
5	561958112	RAJAGANAPATHI P	B.PHARM[SEM-VII]	17	85%
6	561958113	SARANKUMAR B	B.PHARM[SEM-VII]	17	85%
7	561958114	SWETHA P	B.PHARM[SEM-VII]	18	90%
8	561958115	VIKRAMA KARTHIK E	B.PHARM[SEM-VII]	19	95%
9	561958116	YOGESH K	B.PHARM[SEM-VII]	20	100%
10	561958083	SHRI HARIDHA K	B.PHARM[SEM-V]	17	85%
11	561958084	SIVANANDHAN P	B.PHARM[SEM-V]	18	90%
12	561958085	SOWMIYA R *	B.PHARM[SEM-V]	16	80%
13	561958086	SUDEEP CHANDRAN *	B.PHARM[SEM-V]	19	95%
14	561958087	SUDHARSAN S	B.PHARM[SEM-V]	16	80%
15	561958088	SUMITHA M *	B.PHARM[SEM-V]	16	80%
16	561958090	SUSANTH KUMAR R *	B.PHARM[SEM-V]	17	85%
17	561958092	TAMILSELVAN M A	B.PHARM[SEM-V]	18	90%
18	561958093	UMA MAHESWARI M *	B.PHARM[SEM-V]	19	95%
19	561958095	VIDHYA DHARSHINI V *	B.PHARM[SEM-V]	18	90%
20	561958096	VIGNESHWARAN B	B.PHARM[SEM-V]	19	95%
21	561958097	VIJAYA DEVAN G *	B.PHARM[SEM-V]	18	90%
22	560020507593	VENKATESH S	B.PHARM[SEM-III]	19	95%
23	560020507594	VIGNESH K *	B.PHARM[SEM-III]	17	85%
24	560020507595	VIGNESH R	B.PHARM[SEM-III]	17	85%
25	560020507596	VIGNESHWARAN R *	B.PHARM[SEM-III]	17	85%
26	560020507597	VIJAY R *	B.PHARM[SEM-III]	19	95%



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27	560020507598	VISHWA S	B.PHARM[SEM-III]	19	95%
28	560020507599	YASAR ARAFATH H	B.PHARM[SEM-III]	18	90%
29	BPY/1829/2021-22	ARULKUMAR G	B.PHARM[SEM-III]	19	95%
30	BPY/1830/2021-22	BALAMURUGAN S	B.PHARM[SEM-III]	16	80%
31	BPY/1831/2021-22	HEMAVARSHINY K	B.PHARM[SEM-III]	17	85%
32	BPY/1832/2021-22	KANNAN M	B.PHARM[SEM-III]	18	90%
33	BPY/1833/2021-22	KARTHIK K	B.PHARM[SEM-III]	19	95%
34	BPY/1834/2021-22	LOKESH R	B.PHARM[SEM-III]	18	90%
35	BPY/1835/2021-22	NAVEENKUMAR M	B.PHARM[SEM-III]	19	95%
36	BPY/1836/2021-22	PONNUVEL M	B.PHARM[SEM-III]	18	90%
37	BPY/1837/2021-22	PRABHU M	B.PHARM[SEM-III]	17	85%
38	BPY/1838/2021-22	SARAN R	B.PHARM[SEM-III]	17	85%
39	BPY/1807/2021-22	VELMURUGAN D	B.PHARM[SEM-III]	18	90%
40	BPY/1728/2021-22	ABDULLAAH S	B.PHARM[SEM-I]	18	90%
41	BPY/1729/2021-22	ABITHA SRI J	B.PHARM[SEM-I]	18	90%
42	BPY/1730/2021-22	AJITH KUMAR M	B.PHARM[SEM-I]	19	95%
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47	BPY/1735/2021-22	DHANUSHKUMAR P	B.PHARM[SEM-I]	17	85%
48	BPY/1736/2021-22	DHARSANA K	B.PHARM[SEM-I]	19	95%
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62	BPY/1750/2021-22	GOWRISANKAR M	B.PHARM[SEM-I]	18	90%
63	BPY/1751/2021-22	GUNASEKARAN V	B.PHARM[SEM-I]	17	85%
64	BPY/1752/2021-22	GURUPRASATTH S K	B.PHARM[SEM-I]	19	95%



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ADD ON COURSE FEEDBACK FORM

STUDENT NAME: KARTHICK . S

DATE: 5.10.2021 - 29.10.2021

YEAR/ COURSE: B. PHARM

NAME OF THE ADD ON COURSE: AIR ANALYSIS

COURSE CODE: 21VAC 002

DURATION: 32 hours

EVALUATE HONESTLY:

Questions	Excellent	Good	Fair	Poor
The objectives of the training were	✓			
The instructor's contribution to the course was:		✓		
The presentation materials were relevant			✓	
The instructor's effectiveness in teaching the subject matter was:	✓			
Answers to the student's questions by the instructor		✓		
The venue was appropriate for the event			✓	
Course organisation was:	✓			
Level of course was		✓		
Course content was:			✓	

Student Participation

- On average, how many hours a week did you spend on this course (in and out of class)?
A) 0-2 B) 2-5 C) 6-10 D) 11-14 E) 15UP
- What grade do you expect in this course?
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



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SIGNATURE

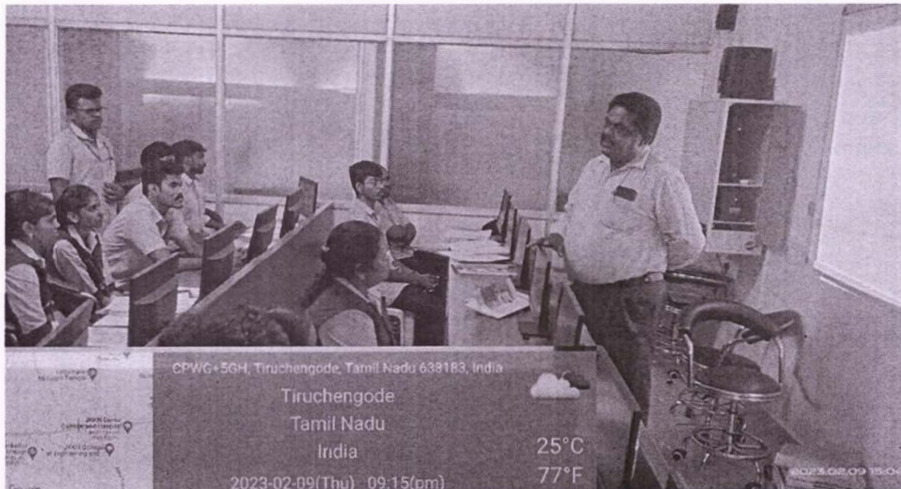


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DEPARTMENT	PHARMACEUTICAL CHEMISTRY
ACADEMIC YEAR	2021-2022
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RESOURCE PERSON'S:



Dr. N. SENTHIL KUMAR,
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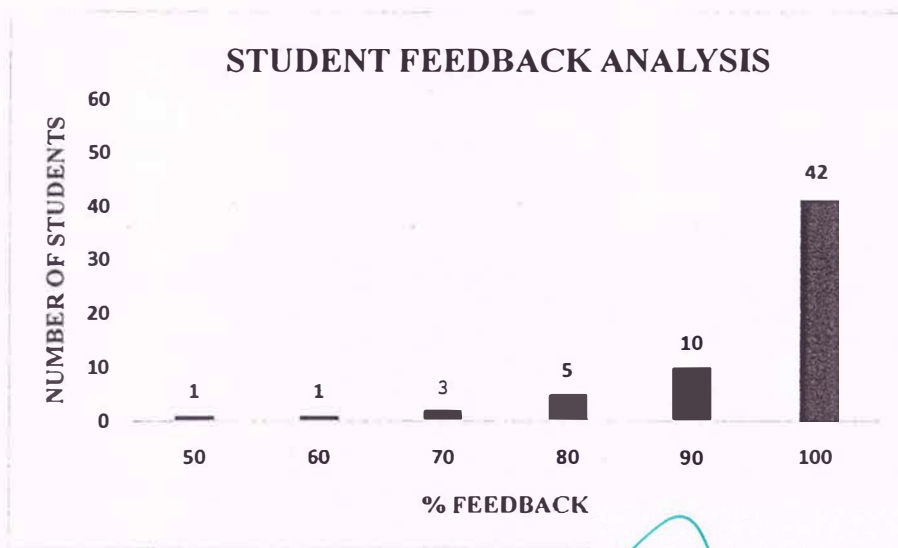


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STUDENTS FEEDBACK ANALYSIS



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JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY CERTIFICATE OF PARTICIPATION

This is to certify that MR./MS./MRS.

KARTHICK . S

Has appreciated for his/ her participation in Value Added Course-

AIR ANALYSIS

Organised by the Department of Pharmaceutical Chemistry

on 29/10/2021

R. Vijayalakshmi
COORDINATOR



Dr. N. Senthilkumar
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