#### **EXAMINATION CELL**

# **Evaluation Process and Reforms** (Session 2013-14 onwards)



#### **ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY**

(AFFILIATED TO RTU KOTA, APPROVED BY AICTE, NEW DELHI)
SP- 40, KUKAS INDUSTRIAL AREA (RIICO), DELHI ROAD, KUKAS, JAIPUR (RAJ)

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## Reforms in Continuous Internal Evaluation (CIE) system at the Institutional Level

Arya Institute of engineering technology follows the modalities of conducting the Continuous Internal Evaluation as prescribed by the Rajasthan Technical University (RTU).

#### Internal Tests (Theory) Evaluation:

O In last 5 years, there have been several changes in the mode of evaluation. The department will carry out an internal assessment on all courses based on **Internal Tests** (i.e. unit test, surprise test, assignments, quiz etc) performance of the students.

#### • Internal Practical (Laboratory Work) Evaluation:

Student Laboratory Record Book contains an evaluation report in which lab teacher award the internal marks in front of the student after every experiment performed and this internal evaluation report has criteria such as preparation marks, performance marks, viva marks, extra work marks, etc.

#### • Mid Term Exam Evaluation:

O In a semester, two **Midterm Tests** are conducted. Each of tests consists of descriptive or numeric or analytical questions as per University guidelines. The average of the two midterm tests is considered for Final Internal Assessment. Previously the midterm test paper consists of 40 marks but according to a new guideline of University, different courses have different marking scheme according to their credits.

#### • Assignment:

O **Assignments** of each course are given to the students by the conserved faculty member. After the completion of every unit, assignment directions uploaded on College website (www.aryainstitutejpr.com), by the faculty members teaching theory subjects. Student access the assignments and has to write it and submit within a week and each question is mapped

with CO's. So the students will be able to understand the course outcomes of a particular subject.

For smooth conduction of Internal Examination, the institute has an Examination Cell. Selection of midterm paper and guideline for internal assessment are described by the exam cell. The exam cell collects all internal award list data and store in digital format for recovery/reference purpose.

For effective implementation of the Continuous Internal Evaluation (CIE) system at the institutional level, the institute conduct two unit tests and one pre-university test per course per semester and performance based improvement test. The answer scripts are given back to the students after evaluation for their information, providing sufficient transparency and accountability. Surprise mock tests are organised at the departmental able to ensure on time performance and delivery of the student.

The college give the facility to participate in competitive examinations and higher studies. Industrial visits are arranged for the students and student submits the visit report which is also evaluated for term work marks. For each program viz. UG, PG and professional courses, suitable components are included in their CIE. The participation of performance of the students in sports, NSS and other extracurricular and cultural activities also given weight age. The feedback system is provided to the student for giving feedback on all fronts whether it is CRT program, classroom teaching, Labs or assignments. The institute communicates progress report of their ward to the parents. It organise parent and guardian meet to have a communication once in a year.



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#### Mechanism to Deal with Examination Related Grievances Is Transparent, Time Bound & Efficient

It is very important for every examination system to be transparent, time bound & efficient. Students should have faith in examination system. The process should be fair and if any discrepancy is reported by the student, it should be addressed properly with in a time frame.

For the purpose, a Grievance Redressal Committee consisting of Director, Principal, Registrar, Examination In charge, head of Department and some faculty members is formed in the college. The Director/ Principal is Chairperson of the committee. The committee verifies the grievances & the nature of Grievances.

The work of The Grievance Redressal Committee is to take the following complaints listed below and take the decision to resolve these complain.

- Marks Totalling related complains
- Out of Syllabus complains
- Quality of paper related complains
- Casual/ Careless attitude of checking related complains
- Invigilator behavioural related complains
- Any other complain related to examination deemed fit for consider

Student need to apply to the University for Correction in marks and reprocess is governed by RTU ordinances. The examination cell of the college uides the students about the process. The process is also explained on RTU portal (www.rtu.ac.in). For errors like mark sheets indicating that the student was absent, the college promptly send the duly certified attendance sheets to assist in locating marks in exam branch and correcting discrepancies.

The internal assessment system of the student is transparent. Internal assessment committee addresses all grievances related to internal assessment marks. The

committee is setup at college level to sort issues related to attendance and internal assessments and all queries are responded by the internal assessment to the committee convenor. The committee promptly deals with mistake/ errors related to attendance, lab records and internal assessment of the students.

An aggrieved student who has the Grievance(s) at the programme level shall make an application first to head of department, after verifying he facts will try to redress the grievance within a responsible time, preferably with a week of the receipt of application of student. If the student is not satisfied with the verdict or the solution of the head of department, then within a week from the date of the receipt of the reply from the head of the department, addressing to the chairperson (Director/ Principal) of the committee and a copy to Registrar.

The chairperson after verifying the facts and the papers concerned and after discussion with the head of the department will place the matter before the committee members which shall either endorse the decision of the head of department or shall pass appropriate order in the best possible manner within a reasonable time, preferably within 10 days of receipt of application.

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## Mechanism of Internal Assessment is Transparent and Robust in terms of Frequency and variety

The students are well informed during the orientation programme itself regarding the university norms for the award of internal assessment marks as well as the rules and regulations pertaining to the internal assessment tests and university examinations.

**Midterm examination** dates or procedures are notified on the college notice boards as well as student portal on the college website. Tentative Midterm exam dates are also displayed in college academic calendar or also announced by faculty members in the respective classes at least before the week in advance. After the midterm exam, the solution of the midterm paper will be uploaded on the college web portal. After checking, answer sheets are shown to students and marking pattern is discussed.

The answer sheet of examinations are shown to the students after evaluation to bring out the discrepancies, if any, to the notice of teacher concerned and the teacher make necessary corrections. Once students are satisfied with the marks obtained, teacher award these marks into award list and submit to exam cell. The assignment assessment lists are displayed on the notice board. Transparency and security of evaluation system are ensured. The maximum and minimum marks in internal practical assessments are further reviewed, discussed and debated on regular basis.

The students are made aware of evaluation procedures including revaluation and challenge valuation, examination pattern of college and university, well in advance through circular as well as information printed in the college notice boards.

The subject teachers give at least 5 assignments per subject and each assignment is evaluated, marks are allotted for each assignment. As per University regulations, 50 or 25 marks are awarded for Social Outreach Discipline and Extra Curricular Activities (SODECA). The institute conducts many events under its various committees, the participation in these activities is considered for this.

Examination cell of the college directly works and synchronization with principal and Director of the institute. To maintain the efficacy and efficiency in the exam process and its evaluation, the college adopts the same exam process as per the University level.

Projects are assigned to a group of students. They evaluate the performance and authenticity in doing project work/ assignment work.

To ensure the same, the following steps are taken:

- Basic eligibility for evaluation process is made known to students through the Rajasthan Technical University website, this enables the student to keep regular updates at University level also through notice boards and class counselling.
- Institute notifies evaluation process and related documentation on the notice board as well as on institute website so student can plan the preparation accordingly; this process includes distribution of the marks and schedule and time table of internal evaluation plus University evaluation system.
- Institute also notifies the criteria for allocation of teamwork marks through notices and class counselling. Continuous assessment report for all the courses is displayed in respective laboratories every month by the lab assistant. This work gets constantly monitored by the head of the respective department.

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## Mechanism of Internal Assessment is Transparent and Robust in terms of Frequency and variety

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The academic calendar is the backbone of various teaching learning plans prepared before the start of every semester. The institution ensures effective time management and timeliness. The academic calendar is prepared and published by the Rajasthan technical University, Kota. It is available on the university website. The college receives the academic calendar from either University portal or email and adheres to it.

Institute will also prepare the academic calendar by own based on the university calendar at the beginning of the academic semester. Academic calendar is also published on the college notice boards. The institute carries out effective planning to stick to the academic calendar. This allows the teacher and the student to space out their teaching learning and regular assessment of the same.



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#### **EXAMINATION CELL**

#### **Semester Wise Academic Evaluation Process**

S. No.	Particular	Remarks	Action Taken By	2019- 20	2018- 19	2017- 18	2016- 17	2015- 16	2014- 15	2013- 14
1.	Academic Calendar	Principal/ Director Office will finalise Academic Plan/ Calendar for smooth implementation of semester's activities. It should be in mapping with RTU Academic Calendar.	HODs, Registrar Office Principal, Director	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√	√	V
2.	Student Registration	documents within denartment Illass		<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	$\checkmark$
3.	Load Distribution	All Department HODs have to take choices from faculties for upcoming semester teaching and after discussion with Principal/Director/ Authorities, Load should be distributed and final sheets have to submit at Principal/Director Office.  If any subject teacher is replaced than it should also be notified.	HODs, Principal, Director	V	V	V	√	The Kilder Kilder	OKAS VECTUOGO	<b>)</b>



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S. No.	Particular	Remarks	Action Taken By	2019- 20	2018- 19	2017- 18	2016- 17	2015- 16	2014- 15	2013- 14
4.	Time Table	All departmental HODs will prepare Class & Section Wise Time Table and display to notice boards. Also one copy of that has to submit at Principal Office/ Director Office. In case of any changes, please inform by submitting revised time table.	HODs, Principal, Director	√	√	$\checkmark$	√	√	√	<b>√</b>
5.	Blown Up & Lecture Plan	After allocation of subject, faculty have to prepare a tentative Blown Up/ Lecture Plan for 100% syllabus coverage as per prepared academic calendar. HODs have to verify all and submit a file to Principal Office/ Director Office.	HODs, Principal, Director	V	<b>√</b>	V	V	V	Only Lecture Plan	Only Lecture Plan
6.	Weekly Report	All Faculty members have to submit their teaching report in prescribed format called weekly report to concerned HOD for entire week teaching.  Also Department HODs have to analyse weekly reports for further improvements/ planning and have to prepare & submit a consolidated sheet to Principal/ Director office.	All Faculties & HODs Principal, Director	√	√	V	<b>√</b>	on KON KAR	AR SR	<b>√</b>



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S. No.	Particular	Remarks	Action Taken By	2019- 20	2018- 19	2017- 18	2016- 17	2015- 16	2014- 15	2013- 14
7.	Teacher's Log Diary & Attendance Registers	All Teaching Faculty members have to prepare attendance register of their section and continuously monitor and record student's attendance in this.  Also every faculty have to maintain Teacher's Log Diary by marking Lecture wise day activities in that.  These register & Log diaries will be checked by HODs & Principal/ Director on weekly basis.	All Faculties, HODs Principal, Director	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	$\checkmark$	<b>√</b>
8.	Class Before Class (CBC)	This is an initiative to improve skills of teaching. In this every faculty member have to prepare their lecture of the day and have to deliver in front of Senior Teacher, HODs, and Principal/ Director. Suggestion can be made by them for better teaching.	Faculties, HODs Principal, Director	√	V	√	<b>√</b>	tengo KOKA	Vechnoi	-
9.	Faculty Teaching Evaluation	HODs, Principal, Director may evaluate Theory & Practical Teaching of Faculty in sudden round by sitting in classes & labs.	HODs Principal, Director	√	V	<b>√</b>	<b>√</b>	erry		<b>√</b>



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S. No.	Particular	Remarks	Action Taken By	2019- 20	2018- 19	2017- 18	2016- 17	2015- 16	2014- 15	2013- 14
10.	Student's Practical Evaluation	Every conducted practical have to be evaluated and marked in next lab with conduction of next practical and it should be recorded in student's lab record which has fixed criteria of evaluation. Internal marks of entire semester will be based on marking given in Lab Records. Marking Lists have to be submitted by HODs at the end of semester and keep all lab records in departmental stores for future needs.	Faculties, HODs, Registrar Office, Principal, Director	√	√	<b>√</b>	√	√	√	<b>√</b>
11.	Student's Theory Evaluation (Assignment)	Every Faculty member has to prepare Unit wise assignments covering all topics. Questions should be distributed in all segments as per Cos & Pos. HODs are also required to upload those assignments on college website as well as on notice boards. Students can access from any of mentioned medium.  Students have to complete assignment in given time and submit to respective faculty for further evaluation. Department has to keep record of marks of assignment.	Faculties, HODs, Registrar Office, Principal, Director	√ (Compuls ory)	√ (Compuls ory)	√ (Compuls ory)	√ (Compuls ory)	Netiture of S	OOKAS JAIPUR	> nnoto



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S. No.	Particular	Remarks	Action Taken By	2019- 20	2018- 19	2017- 18	2016- 17	2015- 16	2014- 15	2013- 14
12.	Student's Theory Evaluation (Unit Test)	Every Faculty member has to conduct Unit Tests after completion of unit. Department has to keep record of marks of Unit Test and Subject Teacher and HOD should monitor student's performance & Improvement.	Faculties, HODs	√ (Compuls ory)	√ (Compuls ory)	√ (Compuls ory)	V	<b>√</b>	V	<b>√</b>
		Notice of Information of Exam (To all concerned Departments)	Exam Cell	√	V	$\checkmark$	$\sqrt{}$	√	$\sqrt{}$	√
		Time Table of Exam Notice Board/ College Website	Exam Cell	√	√	<b>√</b>	√	√	√	√
	Student's	Question Papers (On RTU Pattern) (2/3 Sets from different faculties)	Departments	√	√	<b>√</b>	√	√	√	√
13.	Theory Evaluation (Mid Term	Mixing & Setting of Question papers (By Selection Committee)	Exam Cell & Selection Committee	√	√	<b>√</b>	√	√	√	√
	Test)	Display of Lists Debarred Students who have less than 75% attendance.	Department & Exam Cell	√	√	<b>✓</b>	$\sqrt{}$	\ \	$\sqrt{}$	√
		Seating Arrangement On Common Areas/Respective LTs/ College Website	Exam Cell	<b>√</b>	<b>√</b>	√	1	orengo.	3	√
		Finalised Question Paper Printing (Centralised for All Departments)	Exam Cell	√	√	<b>√</b>	√ (	WOOKA WAIPU	S R Chinolog	√
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		Conduction & Supervision of Exam Including Paper distribution.	Faculties, HODs & Exam Cell	$\sqrt{}$	$\checkmark$	$\sqrt{}$	$\checkmark$	√	√	√
		Centralised Mid Term Copy Checking	Faculties & Exam Cell	√	√	√	<b>√</b>	√	√	√
		Mid Term Copy & Performance Display to Student in LTs with Regular Classes	Faculty & Exam Cell	$\checkmark$	$\sqrt{}$	$\checkmark$	$\sqrt{}$	V	V	$\sqrt{}$
		Resolution of any Grievance Raised from Student for Evaluation of Mid Term Exam of any Subject	Faculty & Exam Cell	<b>√</b>	$\sqrt{}$	<b>√</b>	<b>√</b>	√	V	√
		Award Sheets Preparation	Faculty & Exam Cell	√	√	√	√	V	√	√
14.	Student's Practical Evaluation (Internal Practical)	Departments have to conduct internal practical exams twice in a semester. Dates may differ as per department.  First Internal Practical will be conducted after completion of 50 % of total practicals. Second Internal Practical will be conducted after completion of 100% lab practicals.  Marking record should be submitted to Exam Cell for Finalization of Internal marks.	Department & Exam Cell	√	√	√ (Only One Internal)	√ (Only One Internal)	(Only One Internal)	(Only One Internal)	√ (Only One Internal)
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S. No.	Particular	Remarks	Action Taken By	2019- 20	2018- 19	2017- 18	2016- 17	2015- 16	2014- 15	2013- 14
		Notice of Information of Exam (To all concerned Departments)		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	√
		Time Table of Exam Notice Board/ College Website		<b>√</b>	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√
45	University	Appointment of Internal Examiners	Department	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	√
15.	Practical Exam	Practical Exam Appointment of External Examiners		√	√	√	<b>√</b>	√	<b>√</b>	√
		Conduction & Supervision of Exam.	HOD & Exam Cell	$\sqrt{}$	√	√	$\sqrt{}$	<b>√</b>	$\sqrt{}$	√
		Answer Book Checking & Award Sheets Preparation	Respective Faculty & HOD	√	√	√	√	√	√	√
		Notice for Exam Form Filling (Main/ Back/ Reback/ Mercy Back/ Improvement/ Revaluation)	Registrar Office	V	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√
16.	University	Fees Deposition & Form Filling of Exam (Main/ Back/ Reback/ Mercy Back/ Improvement/ Revaluation)	Department	<b>√</b>	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>\</b>	√
10.	Theory Exam	Form details upload on University portal & deposition of Examination Fees to University	Registrar Office	<b>√</b>	V	<b>√</b>	<b>√</b>	To om	Nech 200 y	<b>√</b>
		Download Admit Cards	Exam Cell	$\checkmark$	$\sqrt{}$	<b>√</b>	$\checkmark$	instance of the	NPUR O	) √
		Distribution of Admit Cards	Departments	<b>√</b>	√	<b>√</b>	√			√



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		<b>Seating Arrangement</b> On Common Areas/Respective LTs	Exam Cell	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
		Room Superintendent/ Relievers/ Floor wise Duties Appointment	Exam Cell	$\checkmark$	√	$\checkmark$	$\checkmark$	√	V	√
		Collection of Exam Paper from University Distribution Centre	Registrar	$\checkmark$	√	$\sqrt{}$	$\sqrt{}$	V	V	$\checkmark$
		Conduction & Supervision of Exam Including Paper distribution & Attendance Sheet distribution.	Principal & Exam Cell	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√
		Any Supporting Work	Exam Cell	$\checkmark$	<b>√</b>	$\sqrt{}$	$\sqrt{}$	√	$\sqrt{}$	$\checkmark$
		Binding of Copies as per guidelines of University	Registrar Office	√	√	<b>√</b>	<b>√</b>	√	√	<b>√</b>
17.	Finalization of Marks	Preparation of Sheets for uploading on University Portal (Both Mid Term & Practical)	Exam Cell	$\checkmark$	√	$\checkmark$	$\checkmark$	V	V	√
18.	Information	Notification of Dates for New Semester Registration & Fee Deposition.	Registrar Office	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	1		√

### ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY

#### 2.5.1 Internal Assessment

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2	Guidelines for Mid Term Paper Setting
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5	Sample Mid Term Papers
6	Sample Checked Mid Term Copies
7	Sample Checked Assignments
8	Sample Checked Practical Lab Records

KOOKAS JAIPUR

## GUIDELINES / INSTRUCTIONS TO CANDIDATE REGARDING MID-TERM EXAMINATION

- PLEASE FILL THE BLOCKS OF ROLL NO. CORRECTLY. WRONG ENTRY WILL LEAD TO RESULT WITH HELD.
- Supplementary answer-book shall be issued if required. Write on each ruled lines on both sides of the leaf. Please do not waste pages.
- The rough work carried out on last pages and must be crossed out clearly and this will not be read by the Examiner.
- Make all due entries on the cover page very carefully only at the space provided for the purpose. Ensure correct and legible entry of your Roll Number at the space provided.
- DO NOT WRITE ANY SUCH THING SUCH AS MOBILE NUMBER ETC. AT ANY LOCATION OTHER THAN THE SPECIFIED. WHICH MAY DISCLOSE YOUR IDENTITY. Such cases will be treated as case of unfair means.
- 6. Write question number and its part (if any) clearly in the left margin of answer-book.
- 7. Leave two line space after completion of answer of each question or part thereof.
- 8. Bringing cell phone/programmable calculator (i.e. having memory capacity of more than six numbers)/communication devices (cell phone, pager, etc.) in the examination hall is strictly prohibited. Exam conducting authority will not be responsible for the custody of such articles. However, use of scientific calculator is permitted.
- Students using unfair means are liable to be punished as per provision of RTU Exam Regulation and Prevailing Govt. Act/Rules.
- 10. No paper is to be brought in the examination hall for scribbling on. Cases of candidates found talking, coping or using any type of Unfair means or outside the examination rooms will be dealt with in accordance with provision of Unfair means.
- 11. Do not leave the examination hall without handing over your answer book to the Room Superintendent and without permission of Room Superintendent.
- 12. During the course of examination the candidate shall be under the discipline and control of the Examination In charge/Registrar and shall obey all orders passed by the Examination In charge/Registrar on all matters relating to the examinations.
- 13. Where candidate changes ink while he/she is answering a paper, he/she should bring this fact to the notice of the Room Superintendent on duty who will record this fact at the appropriate place and affix the facsimile stamp of Principal of the College with BLUE INK only.
- 14. CANDIDATE SHOULD READ THE QUESTION PAPER AND THE INTRUCTIONS CAREFULLY BEFORE HE/SHE BEGIN TO WRITE HIS/HER ANSWERS.
- 15. Answer Books are not subjected to production before any internal & external agency under any circumstances.
- 16. Bringing and use of any type of arms/weapons/liquor/intoxicants etc. In the Examination Hall are strictly prohibited. If found guilty of above, appropriate action shall be taken in accordance with the provision of unfair means.
- 17. After attempting all questions in the answer sheet, please write "The End" at the fast written page.

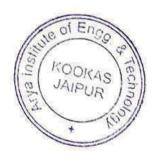


#### RAJASTHAN TECHNICAL UNIVERSITY

- 1. For Internal Assessment (IA) of the theory papers: Two Mid-Term Tests of 20 Marks.
- 2. Institute can arrange a third Mid-Term Test as per the convenience of the students.
- 3. Syllabus shall be prepared without units.
- 4. The question paper shall contain seven (07) questions of 16 marks each. The first question shall cover the entire syllabus and it shall be compulsory, it shall contain eight parts of 2 marks each, and answer to be given in about 25 words. From remaining six questions, student shall attempt any four questions.
- 5. Passing Rules for B.Tech. (4 Yr. Course)

The result of a candidate will be worked out at the end of each Semester Examination. For a Pass, candidate must obtain marks for each theory.

(A)	Theory Paper	Passing%	(B)	Practical/Sessionals	Passing%
(i)	Internal Assessment	Nil	(i)	Sessional (60% component)	40%
(ii)	End Semester (B.Tech.) University Exam	35%	(ii)	Practical (40% component) University Exam	40%
(iii)	Total of (i) & (ii)	40%	(iii)	Total of (i) & (ii)	50%





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Dated: 09/09/2018

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Ref. No. Exam /2018-19/23

#### **CIRCULAR**

#### **GUIDELINES FOR MID-TERM QUESTION PAPER**

- 1. Faculties should prepare their respective subject paper in proper format in equal proportion & uniformly distributed. Paper should contain numerical & theory question as well (if applicable) and submit to respective HOD on or before date given in notice.
- 2. HODs should ensure quality of papers, format and submit to exam cell on or before scheduled date.
- 3. Exam cell should identify the papers received from all colleges, cross examine them & prepare a file for finalization of papers and submit to the selection committee.
- 4. Selection committee should ensure that all **three sets of question papers of each subject** will be emailed on time.
- 5. Selection committee will finalize the subject question papers and submit to exam cell again for printing.
- 6. Selection committee will also ensure Moderation/Finalization of the exam paper as per CO-PO of the concerned subject.
- 7. Exam cell should ensure proper printing of question papers & keep safe until paper has been conducted.
- 8. It is also ensure by all the faculties, HODs, selection committee & examination cell to keep all the material in safe custody, confidential & secured.





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- Ph.: 0141-5148801, 5148802, 5148803 Fax: 01426-510040 Toll Free No.: 1800-102-1044

#### **OFFICE ORDER**

#### **Mid Term Paper Selection & Moderation Committee**

- 1. Dr. Surendra Sharma, Director
- 2. Dr. Yogesh Bhomia, Principal
- 3. Mr. Kshitiz Agarwal, COE
- 4. Respective HOD/ Senior Faculty
  - a. EE
  - Mr. Deepak Sharma
  - Mr. Pushpendra Foujdar
  - b. CSE/IT
  - Mr. Pawan Sen
  - Mr. Sayar Singh Shekhawat
  - Mr. Manish Choubisa
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  - Mr. Dhiraj Shrivastava
  - Mr. Devendra Soni
  - e. 1st Year & Humanities
  - Dr. Indu Gupta
  - Ms. Vinita Jain
  - Mr. Prahlad Holiwala
  - Mr. Rahul Saxena
  - f. MBA
  - Dr. Anupama Pandey
  - Ms. Ankita Jain





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Ref. No.: Exam /2019/26.02/07

Dated: 26/02/2019

### **NOTICE**

#### QUESTION PAPERS (II- MID TERM EXAMS)

All the faculty members who are taking classes of VI & VIII Semesters are hereby informed that they should submit question paper in soft copy for II Mid Term Examination Session 2018-19 (from 60% Syllabus/III, IV & V). The question papers should have 4 questions (With internal choices) for 2 hours duration of 40 Marks. Faculties also have to mention their name on top of paper who is preparing that respective paper.

The questions must be uniformly distributed over the covered syllabus and must be on RTU pattern. The question papers should be submitted latest by 28<sup>th</sup> February, 2019 to the respective HODs.

All HOD's are requested to check the faculty name on question papers & it's quality and forward in soft copy to the Examination Cell on email id aryaexam18@gmail.com by 02<sup>nd</sup> March, 2019 in prescribed format.





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Exam /2020/20.02/06

20-02-2020

### TIME TABLE

#### **I MID TERM EXAMINATION 2019-20**

#### **MBA II Year IV Semester**

Day/Date	Shift	Subject Code	II Sem.
02.03.2020 (Monday)	I	Core Paper	M- 401_ BECG (Common to All)
03.03.2020 (Tuesday)	I	Core Paper	M- 402_ PM (Common to All)
04.03.2020 (Wednesday)	I	Core Paper	M- 403_BL (Common to All)
05.03.2020	1		M- 411_ B&I (FIN)
(Thursday)	ıı.	0.0000000000000000000000000000000000000	M- 412_ TCRM (FIN) M- 431_ PMRS (HR) M- 452_ SCL (IT)
06.03.2020	1	MJ- 2 Paper- 1	M- 420_ CBMR (MKT)
(Friday)	<b>II</b>	MJ- 2 Paper- 2	M- 421_ MOS (MKT)

1 - 9:30 -11:30 AM. II- 1:00 - 3:00 PM.





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Exam /2019/22.11/02

22-11-2019

#### TIME TABLE (Revised) **II MID TERM EXAMINATION 2019-20**

#### B. Tech II Year III Semester

Day/Date	Shift	CE	CS	IT	ECE	EE	ME
Friday 29-Nov2019	I	3CE2-01 AEM-I	3CS2-01 AEM	3IT2-01 AEM	3EC2-01 AEM-I	3EE2-01 AM	3ME2-01 AEM-I
Saturday 30-Nov2019	I	3CE4-06 FM	3CS4-07 SE	3IT4-07 SE	3EC4-07 ED	3EE4-07 EM-I	3ME4-07 MOS
	I	3CE3-04 EM	3CS3-04 DE	3IT3-04 DE	3EC4-04 DSD	3EE4-05 ECA	3ME3-04 EM
Monday 02-Dec2019	п	3CE1-02 TC (ACERC) 3CE1-03 MEFA (AIETM)	3CS1-03 MEFA	3IT1-03 MEFA	3EC1-02 TC	3EE1-02 TC (AIET/ ACERC)  3EE1-03 MEFA (AIETM)	3ME1-02 TC (AIET) 3ME1-03 MEFA (AIETM)
Tuesday	I	3CE4-05 SURVEYING	3CS4-05 DSA	3IT4-05 DSA	3EC4-05 S&S	3EE3-04 PGP	3ME4-05 ET
03-Dec2019	п	3CE4-08 EG	NAME OF THE PERSON OF THE PERS		5 State	3EE4-06 AE	12 <del>030</del> 22
Wednesday 04-Dec2019	I	3CE4-07 BMC	3CS4-06 OOP	3IT4-06 OOP	3EC4-06 NT	3EE4-08 EMF	3ME4-06 MSE

Shift Timings :- I - 9:30 -11:30 AM. П - 01:00 -3:00 РМ.



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Exam /2019/03.10/02

03-10-2019

### TIME TABLE

#### I MID TERM EXAMINATION 2019-20

#### B. Tech I Year I Semester

Day/Date	Shift	Subject As Per Branch (CS	E/IT/ME/EE/ECE/CE)
Friday	I	1FY1-04	1FY1-05
11-Oct2019		Communication Skills	Human Values
Saturday	Ī	1FY2-02	1FY2-03
12-Oct2019		Engineering Physics	Engineering Chemistry
Monday 14-Oct2019	Ī	1FY2- Engineering Ma	
Tuesday 15-Oct2019	I	1FY3-06 Programming for Problem Solving	1FY3-07 Basic Mechanical Engineering
Wednesday	I	1FY3-08	1FY3-09
16-Oct2019		Basic Electrical Engineering	Basic Civil Engineering

Shift Timings :- I - 9:30 -11:30 AM.

## ARYA INSITITUTE OF ENGINEERING & TECHROLOGY, JAIPUR

TIME TABLE- RTU EXTERNAL PRACTICAL EXAMINATIONS - I B.Tech. (I Semester) ALL Branches 2018-19

Day/Date	Shift	Engg Physics Lab (1FY2-20)	Human Values Activities (1FY1- 23)	CP Lab (1FY3-24)	BEE Lab (1FY3-26)		raphics 3-28)	Engg Chemistry Lab (1FY2-21)	Language Lab (1FY1-22)	MP Workshop (1FY3-25)	BCE Lat (1FY3-27
06.01.2020	I	Al	BI	СІ	DI 🔐	EI	FI	***	***	***	***
(Monday)	n	A2	B2	C2	D2	E2	F2	***	***	•••	***
07.01.2020	1	***	Al	BI	CI	DI	***	E1	F1	***	***
(Tuesday)	11	***	A2	В2	C2	D2		E2	F2	***	***
08.01.2020	I	DI	***	Al	ВІ	СІ	***	***	EI	FI	•••
(Wednesday)	11	D2	***	A2	В2	C2	***	***	E2	F2	***
09.01.2020	I	Cl	DI	***	Αl	BI	•••		***	El	Fl
(Thursday)	n	C2	D2	***	A2	В2	***	***	***	E2	F2
10.01.2020	1	ВІ	CI	DI	***	ΑI	***	F1			EI
(Friday)	11	В2	C2	D2	***	Α2	•••	F2	***	***	E2

NOTE: 1. Shifts Timings:- 1 - 9:30 am - 12:00 noon. and II - 1:00 - 3:30 pm.

2. Lab Batches will be as per RTU Roll Nos.

REGISTRAR

PRINCIPAL PRINCIPAL

## ARYA INSITITUT DOF ENGINEERING & TECHNOLOGY, JAIPUR

TIME TABLE- RTU EXTERNAL PRACTICAL EXAMINATIONS - II B.Tech. (III Semester) 2019-20

Day/Date	Shift	EE	ECE	ME	· CS-A	CS-B	CS/IT- C
06.01.2020	I	3EE4-21 AE LAB (A1)	3EC4-23 SP LAB (A1)	3ME4-21 MDP LAB (A1)	3CS4-21 DSA LAB (A1)	3CS4-22 OOP LAB (B1)	3CS4-24 DE LAB (C1)
Monday	п	3EE4-21 AE LAB (A2)	3EC4-23 SP LAB (A2)	3ME4-21 MDP LAB (A2)	3CS4-21 DSA LAB (A2)	3CS4-22 OOP LAB (B2)	3IT4-24 DE LAB (C2)
07.01.2020	I	3EE4-22 EM-I LAB (A1)	3EC4-22 DSD LAB (A1)	3ME4-22 MT LAB (A1)	3CS4-22 OOP LAB (A1)	3CS4-23 SE LAB (B1)	3CS4-21 DSA LAB (C1)
Tuesday	п	3EE4-22 EM-I LAB (A2)	3EC4-22 DSD LAB (A2)	3ME4-22 MT LAB (A2)	3CS4-22 OOP LAB (A2)	3CS4-23 SE LAB (B2)	3IT4-21 DSA LAB (C2)
08.01.2020	Í	3EE4-23 ECD LAB (A1)	3EC4-21 ED LAB (A1)	3ME4-23 BME LAB (A1)	3CS4-23 SE LAB (A1)	3CS4-24 DE LAB (B1)	3CS7-30 Industrial Training (C1)
Wednesday	n	3EE4-23 ECD LAB (A2)	3EC4-21 ED LAB (A2)	3ME4-23 BME LAB (A2)	3CS4-23 SE LAB (A2)	3CS4-24 DE LAB (B2)	31T7-30 Industrial Training (C2)
09.01.2020	I	3EE7-30 Industrial Training (A1)	3EC4-24 CP-I LAB (A1)	3ME4-24 MATLAB (A1)	3CS4-24 DE LAB (A1)	3CS7-30 Industrial Training (B1)	3CS4-22 OOP LAB (C1)
Thursday	П	3EE7-30 Industrial Training (A2)	3EC4-24 CP-I LAB (A2)	3ME4-24 MATLAB (A2)	3CS4-24 DE LAB (A2)	3CS7-30 Industrial Training (B2)	OOP LAB (C2)
10.01.2020	I	***	3EC7-30 Industrial Training (A1)	3ME7-30 Industrial Training (A1)	3CS7-30 Industrial Training (A1)	3CS4-21 DSA LAB (B1)	3CS4-23 SE LAB (C1)
Friday	П	***	3EC7-30 Industrial Training (A2)	3ME7-30 Industrial Training (A2)	3CS7-30 Industrial Training (A2)	3CS4-21 DSA LAB (B2)	31T4-23 SE LAB (C2)

NOTE: 1. Shifts Timings:- 1 - 9:30 am - 12:00 noon. and II - 1:00 - 3:30 pm.

2. Lab Batcheş will be as per RTU Roll Nos.



PRINCIPAL TELLIS

#### **ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY**

#### I MID TERM EXAMINATION 2019-20 (I Sem.)

#### 1FY2-01\_Engineering Mathematics- I

#### **BRANCH: Common to All**

Max Marks:- 80 Time:- 2 hrs.

#### PART A (Attempt All)

- Q.1 Find the equation of tangent plane and normal line to the surface  $f(x, y, z) = x^2 + y^2 + z^2 9 = 0 \text{ at the point } p(1,2,4)$ 
  - (b) Find the value of a, if  $\vec{F} = (2x 5y)\hat{i} + (x + ay)\hat{j} + (3x z)\hat{k}$  is Solinoidal.
  - (c) Explain convergence properties of Fourier Series.

5\*4

- (d) Write the necessary & sufficient condition for maxima & minima a function of two variables.
- (e) Evaluate the following limit  $\lim_{x\to 2} \frac{x^2+y^3}{y\to 3}$

#### PART B (Attempt any Four)

- Q.2 (a) If  $u = f\left(\frac{x}{y}, \frac{y}{z}, \frac{z}{x}\right)$ ; showthat  $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} + z \frac{\partial u}{\partial z} = 0$ 
  - (b) Find the Fourier Half range cosine series of function f(x) = x,  $0 \le x \le 2$
  - (c) Discuss maxima or minima of the function  $x^2y^2 5x^2 8xy 5y^2$
  - (d) If  $f(x,y) = \begin{cases} \frac{x^8 y^8}{x^2 + y^2}; & \text{when } x \neq 0, y \neq 0 \\ 0; & \text{when } x = y = 0 \end{cases}$  then discuss the continuity of f(x,y) at the origin.
  - (e) Show that  $\nabla^2 f(r) = f''(r) + \frac{2}{r} f'(r)$ 
    - If  $u = tan^{-1} \left[ \frac{x^8 + y^8}{x + y} \right]$  then show that
  - (f)  $(i) x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = \sin 2u$  (ii)  $x^2 \frac{\partial^2 u}{\partial x^2} + 2xy \frac{\partial^2 u}{\partial x \partial y} + y^2 \frac{\partial^2 u}{\partial y^2} = \sin 2u (1 4\sin^2 u)$

#### PART C (Attempt any Two)

- Q.3 Prove that  $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = \frac{\partial^2 u}{\partial \xi^2} + \frac{\partial^2 u}{\partial \eta^2}$ where  $x = \xi \cos \alpha - \eta \sin \alpha$ , and  $y = \xi \sin \alpha + \eta \cos \alpha$ 
  - Find the Fourier series of  $f(x) = x + x^2$ ,  $-\pi < x < \pi$ , show that
  - (b)  $\frac{\pi^2}{6} = 1 + \frac{1}{2^2} + \frac{1}{3^2} + \cdots$  2\*14
  - (c) A rectangular box open at the top is to have fixed volume 32 cubic meter. Find the dimensions of the box requiring least material for its construction.

#### **ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY** I MID TERM EXAMINATION (III SEM) 2019-20

3CS4-06/3IT4-06: OBJECT ORIENTED PROGRAMMING

(BRANCH: CS/IT)

Max. Time: 2 hrs. Max. Marks: 60

NOTE:- Part A: compulsory for all.

Part B: attempt any four question Part C: attempt any two question

#### PART A (ATTEMPT ALL) SHORT ANSWER

Q. 1	a)	List out the characteristics of OOP.	
	b)	Write a program to explain this pointer.	
	c)	Write a program to pass a student structure to function display with which prints student's data.	5*3
	d)	What is the difference between object based and object oriented programming language?	
	e)	What is an abstract class?	

#### PART B (ATTEMPT ANY FOUR) ANALYTICAL

Q. 2	a)	What is new and delete operators? Provide a sample program.	
	b)	What do you understand by data member and member function in C++? Explain the member function inside the class and outside the class with suitable program code?	
	c)	What is virtual base class and how to create it? Give example and program.	
	d)	What is the Multilevel inheritance? Explain through a suitable program code?	4*6
	e)	What happens to public, private and protected members of class A when class inherits them publically and privately?	
	f)	Explain Dynamic memory allocation. Write a program to find largest value from a variable sized array.	

		PART C (ATTEMPT ANY TWO) DESCRPTIVE	
Q. 3	a)	What do you mean by programming paradigms? Explain the various types of programming	
		paradigms?	
	b)	What is inline function? Why do we create inline function? Give restrictions and sample	2*10.5
		program.	
	c)	Explain constructors, its types, and destructors with example.	

#### **ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY**

#### I MID TERM EXAMINATION 2019-20 (V Sem.)

5EC 4-03: Control system

**BRANCH: Electronics & Communication Engg.** 

Max Marks:- 60 Time:- 2 hrs.

#### PART A (Attempt All)

- Q.1 (a) Explain closed loop system Transfer Function in case of negative feedback.
  - (b) Define steady state stability in control system.
  - (c) Comment on the stability of the system whose characteristics equation is given by:  $S^3 + 8S^2 + 14S + 16 = 0$

Calculate the error content for three basic types of input of the following system, whose

(d) G(S) & H(S) are given below:  $G(S) = \frac{k(S+3.15)}{S(S+1.5)(S+0.5)}$ , H(S) = 1

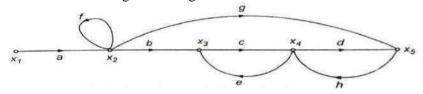
#### PART B (Attempt any Four)

- Q.2 (a) Explain the working of LVDT.
  - (b) A closed loop control system has an open loop transfer function of  $G(S)H(S) = \frac{ke^{-S}}{S(S^2+2S+1)}$ ;

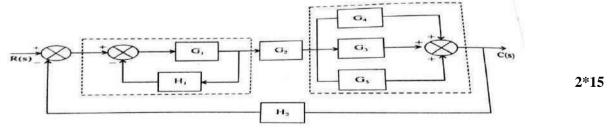
    Determine the maximum value of 'k' for the system to be stable.
  - (c) Show the effect on stability by the addition of zeros in the closed loop system.
     Show that for the peak time of the first order system to unit step input is given by:
  - (d)  $t_p = \frac{n\pi}{\omega_n \sqrt{1 \delta^2}}$
  - (e) Explain Pneumatic Values and Pneumatic Actuators.
  - (f) Explain the effect of sensitivity on transfer function in case of:
  - (i) Open Loop T.F.
- (ii) Closed Loop T.F.

#### PART C (Attempt any Two)

(i) Determine the overall gain relating to the  $x_5$  and  $x_1$ .



Q.3 (ii) Determine the transfer function C(s)/R(s) of the following block diagram:



Consider a unity feedback control system with the following forward transfer function as: G(s) = K / s (s+2)(s+3)

1/1

(b) (i) Plot the root loci of the system (ii) Sketch the polar plot for the following function

$$G(s) = \frac{1}{(1+S)(1+2S)}$$

Sketch the bode plot for the open loop transfer function for the unity feedback

(c) given as  $G(s) = \frac{200(s+2)}{s(S^2 + 10S + 100)}$ 

RTU Roll No. .....

#### **ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY** FIRST MIDTERM EXAMINATION (VIII SEM) 2019-20 **8EE1A: EHV AC/DC TRANSMISSION**

(BRANCH: EE)

	ax. T OTE:	ime: 2 hrs. Max. Marks Attempt all questions.	: 40
		UNIT I	
Q. 1	(a)	Explain the need for bundled conductors in EHV AC lines.	(5)
	(b)	Explain the electrostatic field of EHV lines and their effects.	(5)
	(6)	OR	(0)
	(a)	Explain the corona loss? Also, explain the factors which are affected the corona loss? Derive the mathematical formula of the corona loss?	(5)
	(b)	Explain surge impedance loading.	(5)
		UNIT II	
Q. 2	(a)	Explain with a schematic diagram of a Turbine speed governing system.	(5)
	(b)	Write a short note of automatic generation control with its block diagram?	(5)
		OR	
	(a)	Explain line load bias control with the diagram.	(5)
	(b)	Explain the control of active and reactive power flow.	(5)
		UNIT III	
Q. 3	(a)	Write a short note on the synchronous phase Modifier?	(5)
	(b)	What do you mean by shunt compensation? How it is different from series compensation	<b>(5)</b>
		OR	
	(a)	What is the necessity of a tap changing transformer? Describe its function in the power system.	(5)
	(b)	What do you mean by Compensation in the transmission line? Why we need this?	(5)
		UNIT I/II/III	
Q. 4	(a)	A 3phase 220kv transmission line configured in equilateral triangle spacing with each side	
		of 2m, the diameter of the conductor is 2cm the ambient temp is 30degree C, irregularity	(5)
		factor is 0.98. Find corona power loss?	
	(b)	Explain load sharing between parallel operating generators.	(5)
		OR	
	(a)	Explain the voltage collapse problem in brief.	(5)
	(b)	Write a short note on TCR and FC-TCR?	(5)

#### **ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY**

# I MID TERM EXAMINATION 2019-20 (VIII Sem.) 8ME1A\_Computer Integrated Manufacturing Systems BRANCH: ME

		DRANGH: IVIE	
Max	Marks:		- 2 hrs.
		UNIT- 1	
Q.1	(a)	What do you understand by 'plant layout'? Explain the various types of plants layout with their advantages and limitations.	(5)
	(b)	Explain the principle of operation of closed loop CNC machine with figure.	<b>(5)</b>
		OR	
	(a)	Explain various basic components of NC machine.	(5)
	(b)	What is NC system? Also discuss the different methods of listing the coordinate of points in NC system.	(5)
		UNIT- 2	
Q.2	(a)	What do you know adaptive control system? Discuss its types and advantages.	(5)
	(b)	Compare among NC, CNC and DNC System.	(5)
		OR	
	(a)	Write NC part program in word address format for drilling the three holes in sample part shown in figure.  125  120  120  120  Take feed rate=0.05mm/rev. and spindle speed=1000rev./min.	(5)
	(b)	Define DNC. Describe various types of DNC. Write about the function performed by central computer.	(5)
		UNIT- 3	
Q.3	(a)	Distinguish between a variant process planning system and a generative process planning system?	(5)
	(b)	Briefly describe the "Knowledge based Process Planning".	(5)
		OR	
	(a)	Explain The Machinability Data system?	(5)
	(b)	Define Group Technology? Write down the role of group technology in CAM Integration.	(5)
	(-)	UNIT- 1/2/3	(-)
Q.4	(a)	Describe in brief the structure of a CAPP?	(5)
	(b)	Write short notes on: Coding Systems, Machining Cells and Part Families.	(5)
		OR LENGS, &	
	(a)	What is the difference between point to point and continuous path control in a motion control	(5)
	(b)	Explain the various types of statement in APT language.	(5)
		1/1	

#### **ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY**

#### MBA II Sem (I Mid-Term, 2020) Subject: Cost Accounting for Management (M- 202)

Max Time: 2 hrs

Attempt any 4 Questions from Section-A & Section – B is compulsory & each question carries equal marks.

#### Section - A

From the following data calculate various material variances:  (i) Material Cost Variance  (ii) Material Price Variance											
	` '	terial Usage Variance	2								
	Materials	Standard	Standard	Actual	Actual						
		<b>Quantity (units)</b>	Price per unit	<b>Quantity (units)</b>	Price per unit						
	A	80	8.00	90	7.50						
	В	70	3.00	80	4.00						
		150		170							
1	D. C	1 411									
	Define Overhea	ad- Allocation, Appo	ortionment and Abs	orption.							
Ť	The following	particulars have been	extracted from the	e books of J.K. Produ	action Co. Ltd., for						
	ended 31st Mar	ch 2018.									
				Rs.							
	Stock of materi	ial as on 1 <sup>st</sup> April 201	17	47,000							
	Stock of materi	ial as on 31st March 2	2018	45,000							
	Material purcha	ased		2,08,000							
	Factory salaries	S		9,600							
			- ,								
	Counting house	e salaries		14,000							
	-			,							
	Counting house	ds		14,000							
	Counting house Carriage inware	ds ards		14,000 8,200							
	Counting house Carriage inward Carriage outwa	ds ards		14,000 8,200 5,100							
	Counting house Carriage inward Carriage outward Donation of rel	ds urds lief fund		14,000 8,200 5,100 4,300							
	Counting house Carriage inward Carriage outward Donation of rel Sales Bad debts writt	ds urds lief fund		14,000 8,200 5,100 4,300 4,87,000							
	Counting house Carriage inwar Carriage outwar Donation of rel Sales Bad debts writt Repairs of plan	ds ards lief fund ten off		14,000 8,200 5,100 4,300 4,87,000 4,700							
	Counting house Carriage inward Carriage outward Donation of rel Sales Bad debts writt Repairs of plan Rent, rates, tax	ds urds lief fund ten off ut, machinery & tools	tory)	14,000 8,200 5,100 4,300 4,87,000 4,700 8,600							
	Counting house Carriage inward Carriage outward Donation of rel Sales Bad debts writt Repairs of plan Rent, rates, tax	ds ards lief fund ten off at, machinery & tools es and insurance(fact es and insurance(offices)	tory)	14,000 8,200 5,100 4,300 4,87,000 4,700 8,600 3,000							
	Counting house Carriage inward Carriage outward Donation of rel Sales Bad debts writt Repairs of plan Rent, rates, tax Rent, rates, tax Travelling expe	ds ards lief fund ten off at, machinery & tools es and insurance(fact es and insurance(offices)	tory) ice)	14,000 8,200 5,100 4,300 4,87,000 4,700 8,600 3,000 1,000							
	Counting house Carriage inward Carriage outward Donation of rel Sales Bad debts writt Repairs of plan Rent, rates, tax Rent, rates, tax Travelling expe	ds ards lief fund  ten off at, machinery & tools es and insurance(fact es and insurance(offi enses ries and commission	tory) ice)	14,000 8,200 5,100 4,300 4,87,000 4,700 8,600 3,000 1,000 3,700							
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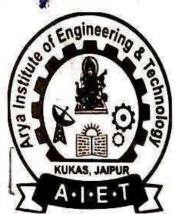
on an average 30 hours and 18 hours respectively throughout the accounting year. Prepare a cost sheet

	showing different elements	s of cost.							
5.	The sales turnover	and profit during two	years are as follows:						
	Year	Sales	Profit						
	2019	1,40,000	15,000						
	2020	1,60,000	20,000						
	You are required	to calculate:							
	i) P/V ratio								
	ii) Sales requii	red to earn a profit of	Rs. 40,000.						
	iii) Profit when	sales are Rs. 1,20,000	0.						
6.	What do you mean by 'Bre	eak Even Analysis'? V	Vhat are its uses?						

#### Section – B

Rent											
Repairs to plant											
Depreciation of plant											
Lighting expenses											
Supervisory expense											
Fire insurance premi	um of stock										
Power											
Employee's liability	insurance										
Particulars Area – sq. ft. No. of lights No. of workers	A 1,500 15 200	B 1,100 11 150	900 9 100	D 500 5							
Total wages-Rs.	60,000	40,000	30,000	20,000							
Value of plant- Rs.	2,40,000	1,80,000	1,20,000	60,000							
Value of stock- Rs.	1,50,000	90,000	60,000	-							

Explain the standard costing? Discuss the difference between standard costing and budgetary control.



SP-40, RIICO INDUSTRIAL AREA, DELHI ROAD, KUKAS, JAIPUR

## MID TERM TEST I/II/III



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bject with	Code	5.6	1	3-J.T.	CAN	J.C.	•••••	6	H	<del>]</del>		J		3	gilalor	s olgi	4		5		S:
Question		Part A				li hii	Part B				Part C					-	a	b	Total Marks	Sign. o	
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Marks Obtained	3	PCP-	-	_	-	5/2	6			6	5	10	9%	-				10	3445	45	( ryou

	-> All the questions are
	Part-B not attempted.
	-) Remaining work is good,
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	en Philocope Conginaline. It is the story cay
	a har animal Shotippon the modules It
170	estable that how modules are Connected with each
	- Sturmer Tolland



SP-40, RIICO INDUSTRIAL AREA, DELHI ROAD, KUKAS, JAIPUR

# MID TERM TEST I/II/III



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Question No.	1		2		3, 3,		4		, 5		Total Marks	Sign. of Examine					
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Marks Obtained	Stata		52	A	52		3,5				30)	100					

(Start to write From here)

SECTION-A HISTORY OF LABOUR MOVEMENT IN INDIA & Ans-2 According to Encylopeolia in Social Sciences & Labour mayingent is consinger the organisation of wages evening to the conditions is either to be mayingent in India

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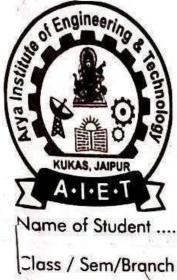
SP-40, RIICO INDUSTRIAL AREA, DELHI ROAD, KUKAS, JAIPUR

### MID TERM TEST I/II/III



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Question		Part A				Part B						7	Pa	rt C		а	15	A T. A.	15.	Total	Sign. o Examin
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Max. Marks	ned			1		9	3.55			400		Co	10,0								

	PART C	
Q. 3 (a)	Bennoulli's theorem for steady flow of on	-> Bernoallis equation from Euler's equation
-) Bo	on with steach flow will resisted by prissure	- Consider a fluid dunent of such dA in which
Dike	Steady flow is a flow in which flood properties - e premise, density and relieity do not alranges -	2) pressure force or opposite stoream line
	know that	as shown in Jigure
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	sq. dn.dc.ac.A stream line
ton	$\frac{\rho_1}{\rho_1} + \frac{V_1^2}{2\rho_2} + \frac{\rho_2}{\rho_2} + \frac{V_1^2}{2\rho_2}$	PdA
	(39 0) 19 25	\$9.0 \$9.0 \$9.0



# ARYA Institute of Engg. & Technology

SP-40, RIICO INDUSTRIAL AREA, DELHI ROAD, KUKAS, JAIPUR
MID TERM TEST I/II/III



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Marks Obtained	1.5		2		0	5	4		3		6	10		10				(T)		41.5	app.
Max. Marks	3	3	3	3	3	6	6	0	6	6	6	10.5	10.5	10.5	71	1	+			60	
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			1	1								10	mt .	- <u>C</u>			1				¥
<b>a</b> )		To	rqu	w	Q	lif	,	ch	ur	act	eri	hic	, , , , , , , , , , , , , , , , , , ,	af,	an	Ţ	du	ch's	en!	motor	

torque in surning condition of sutur! The torque is proportional to the slip whenthe Emb Ez is Constant. TF & S E2 R2  $R_2^2 + (s_1^2x_1)^2$ Alib majon: - on this magion there is a condion shown us below torque the at summing condition the w & where R= << (six.)2 is propositional to the slip it the vol when IR the Emf Ez and sees sust truce is constant. So Torque is sensepostional to the elip when the oreactance (9x2) is constant. In torque Stip characteretics. for calculate the for que slip characteristics of Ta J maximus on the same two parts an induction motor there are by regions :- by which we Torque low alik nesion xiguon. 2) low all sugion: In this region there is operating. 0 R2 >>> sfx (six)2 so the -. Tex s NIN STNU (loading 1





SP-40, RIICO INDUSTRIAL AREA, DELHI ROAD, KUKAS, JAIPUR

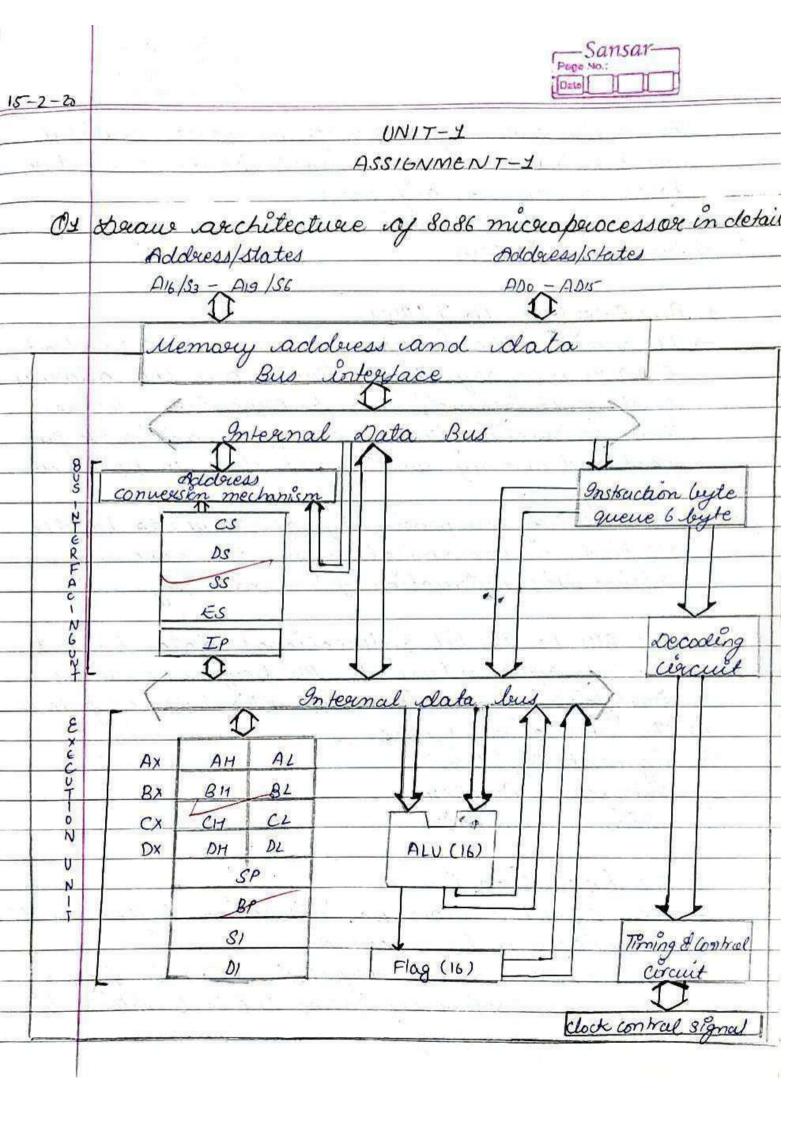
MID TERM TESTY/II/III



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ubject with c	coue	odeIC. Tech					40.0	ry.	8	GC	1.1						. 1	8.5	O .	5/03/2020	
Question		1				·×		2	2			-, 3	2, 0	3	1 % } 9		4		5	2 - 1	
		Part A			Part B				Part C				4.4			a, Ty	Total	Sign. o			
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65			<i>J</i>		

Propurity. Unit - L Q1. (a) Crystal deject :-Constal depect regular geometrical unoringement of the atom on a crystalline sold! In this depet Empure Ci germetric the oroquelas structure of the solid defected by empurities. And empurities change the regular arrangement of Structure change the regular annangement of There are those types of crystal defert work are & use orequire. 1 Point defect D line detect. @ Suntaco doloce assell volume was 1. Point defect :-- Propuncties In point do feet . the Empirities are adolos Combine at a point only Rect whole tig: Sempurities putraduced sen silicon structure



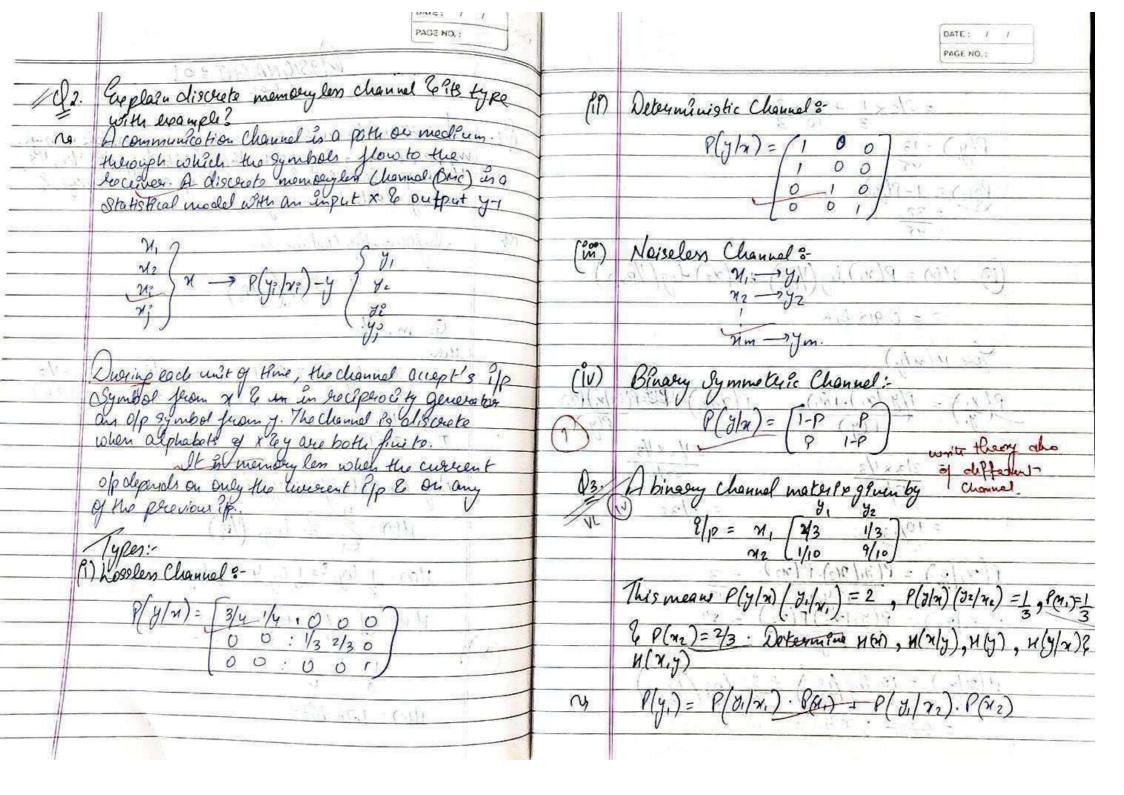
	Sams	ar
	t-	097-099
11:	11	

Sansar— Page No.:

The anchitecture of 8086 microperocessor is divided.  The instruction from the que into two independent functional parts these two cleaning sequentially. Once the queue is reasonanced the queue is reasonanced the queue status is checked the queue status is checked the great opcode fetch.	a lighte is seconded,
parts are named as follows:  1) Bus Interface Unit (810)  the queue is rearranged the queue status is checke	a lighte is seconded,
the queue status is checke	by pushing it cent of
1) Bus Interface Unit (BIV)  Specialize Unit (EV)  Checke	d for the possibility
Sycardia Unit (FU)	V
2) Execution Unit (EU)	B 3 mm
Teching the next or coucle	r while The current
1. Bus Interface Unit (BIV) instruction (mit	ed pipelining.
→ BIV becovides the interface between Execution (init  (EV) and memory. The BIV sends out the address (ii) Segment Register.	
(EV) and memory. The BIV sends out the address (ii) Segment Register -	bit address bus So
of the next instruction to be executed fetches - The 8086 milesperocesson has 20-	
that instruction from memory, heads data from it can address any of 3020 (4)  post and memory, and write data to post and here are four segment suggested address of the suspective segment.	
memora 811.	
The beginning we see the selection of the BIU to handle the ramed as.	
all kind of Communication for the execution, a Code segment siegister by	) Data Segment segister.
all kind of Communication for the execution, a Cocte segment siegister b, stack segment siegister b, stack segment siegister d	4) Extra Segment Sugester
	the 16 list address of
	te within the cocle
interfacing reperation with the help of following the next instruction code by segment. The code segment &	register points to the
base aprobe segment.	WHATELOW STATE OF THE STATE OF
(1) Segment Register The instruction pointer contain	r the distance or
(in) Instruction Pointer.  (iv) Soldiess Summer.  (iv) Soldiess Summer.  (iv) Soldiess Summer.	ness to the next instruction
(IV) Edicties Samme.	
& The instruction Queue -	
- The BIV fetches, cupto for instruction digits got	or has 20 lift address
	and the second s
> The BIV stories these perfected bytes in fast	
first-out register on authorized address	
- It is son legtes long.	

				V X ==	Sansar—
09.	Draw the pin chase	am 8085	and explain the following	1	
ű	Higher Order address	Bus	(ii) Contral Signal		address bus Ao-A7.
		1600-1800 1800		High corder a	dolvess bus (AS-AIS) are underect
	X2 9		39 HOLD		lines.
	Reset out 3.		0.70	- These lines are	e exclusively used to send the
	Sop u	8	38 HLDA	righ order a	ddress (most significant 8-lets of
	SID	0	37 clk out	16-leits address	I) to the peripheral or memory.
	3.		36 Reset in	→ In 8085 micro p	successor higher order address law
	TRAP 6-		35 Ready	is available più	21 to pin 28.
	PST 7-5 7-	$\sim$	34 Io/M		
	RST6.5 8		-33 Sı	(ii) Control Signal	4- 4- 4-
	RS T5.5 9		3 2 R·D		are commonly known as control
	INTR 10		31 WR		they are individual signals:
	LN7A II		30 ALE	The control &	mall was as Inleases
	A DO 12-	8	- 29 So	· Read (RD):	gnals are as follows.
	AD1 13		28 AIC	The second of th	local time of it would to an head
	AD2 14-		27 Alu	the stead war	rbiol signal is used to control
	AD3 15-		26- A13	the steading to	beaution of microperocessor.
	AD4 16	° E	25 Al2	This is an ac	live low signal, meaning that
	ADC 17	_5_	24 411	agree the RD S	regnal goes low, the external device
	ADC 18		11 (1968)		La an the dola less and nucceopas
	1		-23 Au	cessor reads to	0
	AD7 (9		22 A9		to note that if the data is not
	NNS 20		21 108		Data leus and Ro is love, miero-
	The second secon		The state of the s		l seed ushatever is available
0	THE RESERVE THE RESERVE THE PARTY OF THE PAR	97		which may be	e gavlegge.
(1)	Higher Order add	ocess Bus		· Wente (wR):	
	Bus is defined as	the col	lection of vives are	→ The write cont	local signal is similar to the read
D D	used to communi	cated d	he address, data con	control signal	(RD):
1	alter information.		and the second s		active low signal.
-> <u> </u>	Тhe 8085 писторносе	ssor has 1	b leit address lines		sor paces the data on the data bu
	which are denoted	ly (AO-A	5). These adobies lines	and makes we	Signal Lines.
0	are divided on higher	TOUNES A	Adress low A8-A15 and	- This is the oran	sonsibilty of external denices that cuter
	The state of the s	- Justice 20	THE THE THE WAS		y convenue cuences a su cone

DATE: PAGE NO. : 618SIGNMENT 801 1. Il source with 448k are one of four possible message. M, m, m, my with the passibility 1/2, 1/4, 1/8, 1/8 resp. Calculate Rufo. contered of each massage & average a lowbent message. average lowtent message. 14 Information contoin is-I = log2 (1/Pk)  $I_1 = log_2(2) = 1 blt$   $m_3 = 1/8$   $m_4 = 1/8$   $T_2 = 3blt$  -2bl1 log 8 + 1 log 8 2+ 1 log 24 + 11 (1) = 1 + 1x2 + 1 x3 + 1 x3 4(A) = 1075 bit.





### **INDEX & EVALUATION REPORT**

Student Name: Priyal Agauwal Name of lab with code: - FPGA Lab - 8CS6A Group No.:- .... S. Marks Awarded by Lab Faculty/Incharge Turn Sched. Date of Name of Experiment No. Page No. Attendance Prepara Date of Perf. Perform Record Extra Teacher's Expt. Expt. Viva tion (10) Total ance work Initial (10) (10) (50)Plotting various segual (10) (4) with Date 1 081 veulfication of sampling 2 1/86 28/1 theorem 8 impulse susponse 3 10-M/2 4/2 4/2 sequeuce 15-5 25/2 CI Circular convolution 25/2 25/2 9 42 complution 19 -25/2 9 20 Cont. .....



#### **INDEX & EVALUATION REPORT**

		021		0.1.				Mai	rks Awarde	d by I	ab Fac	culty/l	ncharge		
S. Io.	Turn No.	Name of Experiment	Page No.	Sched. Date of Expt.	Date of Perf. Expt.	Attend (6	25-34 mm/h	Prepara tion	Perform ance	Rec (1	TELESCOPE I	Viva (10)	Extra work	Total (50)	Teacher's Initial
3	8	Draw sampling/decimation	21-	11/3	11/3	1		(10)	(10)	+	2	8	3	42	with Date
,	9	of sum of all misolds. To simulate necesser 4 transmitter for BPSK	23	11/3	11/3	6		9	9	8		7	3	42	11/3
0	10	Evaluate second order differential egn.	24	11/3	11/3	6	F-2	a	q	8		8	3	43	11/3
1	*	Veva-Voce	33	11/3	11/3			19		72		23			
12	¥	Ulva-Voce	38° 30	11/3	11/3			7							
13					#12	- w			ľ						
		policy specimen			-								<b>1</b>	-1	?

Note:- (1) If a student is absent on any turn, he/she is to be awarded minus 20 marks for that turn.

(2) If a student is present on a turn but not brought his Lab record he/she is to be awarded minus 10 marks.



#### **INDEX & EVALUATION REPORT**

Student Name: Levatishtha Shawa Group No .- . . Name of lab with code: FPGA (8CS6A)

82	19225	E DEV '		C.1	NOTE:	50		Ma	rks Award	ed by l	Lab Fa	culty/I	ncharge		
S. No.	Turn No.	Name of Experiment	Page No.	Sched. Date of Expt.	Date of Perf. Expt.	Atten	dance 6)	Prepara tion (10)	Perform ance (10)		ord 0)	Viva (10)	Extra work (4)	Total (50)	Teacher's Initial with Date
1		Plotting of various clementary sig like impulse furt, writ step, limp, quadeatie, sinewarie, a general sinewoodal func	2-5	28/16b	294	6		.7	8	7		6	3	37	230,
2		vorifying of Sampling theorem	6-8	28/16	28/46	6		7	8	7		6	3	37	25/2
3		Impulse susponse of given system	9-10	4 feb	Tel	6		7	8	7		6	3	37	25/21
4		linear Convolution of 2 given	11-12	4 feb	Yes	6		8	8	7	7	6	3	36	25/2/1
Scoon	4 1	<b>V</b>	374	25feb	25 feb	6		8	8	9		7	3	49	33m
5	-	Reyfountinulautonvolution,	15	25feb	25/9	6		8	8	9	34	7	3	41	3A27
•		of two given equence	16	25 feb	25fe	16		В	B	9		7	3	41	393 m



#### **INDEX & EVALUATION REPORT**

		30	1					Mai	rks Awarde	d by	Lab Fa	culty/I	ncharge		syrian
S. No.	Turn No.	Name of Experiment	Page No.	Sched. Date of Expt.	Date of Perf. Expt.	Attend (6	ance ) -	Prepara tion (10)	Perform ance (10)		ord 0) -	Viva (10)	Extra work (4)	Total (50)	Teacher's Initial with Date
8		linear Convolution DFT 2 IDFT	20-	11/3	11/3	6		8	3	4		6	2	40	3977
9		To simulate BPSR	22. -23	11/3	11/3	6		8	9	8		7	3	41	2/2/2
ιo		Evaluate the 2"dorder	24_27	11/3	11[3.	6		8	q	. 8		1	3	41	mm 12/3
1	2 6		_	TE.Ç		12 -		,					n		2000
12					. 50		=								
13	NI II					= 1 ×									
					No.									E3	

Note:- (1) If a student is absent on any turn, he/she is to be awarded minus 20 marks for that turn.

(2) If a student is present on a turn but not brought his Lab record he/she is to be awarded minus 10 marks.

(3) If student comes to lab without preparation of experiment, he/she is to be awarded zero marks under preparation head.



#### **INDEX & EVALUATION REPORT**

				Dateor	Date of Perf. Expt.	Marks Awarded by Lab Faculty/Incharge									
S. No.	Turn No.	Name of Experiment	Page No.			Attend (6		Prepara tion (10)	Perform ance (10)	Recor (10)	274.00	Extra work (4)	Total (50)	Teacher's Initial with Date	
1		wapto draw line inc	200	13-83	3/2	2	-06	-05	06	04	06	00	3	20/08/1	
2		wa.p. to draw planes	8 <sub>40</sub>	13-829	S. A.	06		07	08	02	06	01	39	1/09/	
3		w.a.p. to emplement	11 40	31 1/2	3	06		07	08	0)	05	02/	29	100 Joal	
4		w. r. p. to inplement	\$0 19	4.9.19		06		26	07	02	06	02	29	23/09/	
5		wa-p. to implement	20	23,79	A A	06		06	06	06	07	00/	34	)	
6		wap to implement	36	2,97	2187	06		07	06	Q	06	ð2(	33	12/2	
7		w. a.p. for copies cutheralesse	31	λ,	2/92	06		66	07	07	00	20	35	) Y 3 11	



#### **INDEX & EVALUATION REPORT**

	Name of Experiment	Page No.	Sched. Date of Expt.	Date of Perf. Expt.	Marks Awarded by Lab Faculty/Incharge									
Turn No.					Attend (6	lance ) -	Prepara tion (10)	Perform ance (10)	Rec (1		Viva (10)	Extra work (4)	Total (50)	Teacher's Initial with Date
	w.a.p. to implement B-D fransformation	43	27-9-19	27, 9,5	06		07	06	07		Z	02	35)	1-20
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Note:- (1) If a student is absent on any turn, he/she is to be awarded minus 20 marks for that turn.



### Student Support: Model/ Guess Paper & Their Solution available on College Website: Student Corner

