

ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY

2.5.1 Internal Assessment

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GUIDELINES / INSTRUCTIONS TO CANDIDATE REGARDING MID-TERM EXAMINATION

1. PLEASE FILL THE BLOCKS OF ROLL NO. CORRECTLY. WRONG ENTRY WILL LEAD TO RESULT WITH HELD.
2. Supplementary answer-book shall be issued if required. Write on each ruled lines on both sides of the leaf. Please do not waste pages.
3. The rough work carried out on last pages and must be crossed out clearly and this will not be read by the Examiner.
4. 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.
5. 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.
9. 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 INSTRUCTIONS 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 last written page.



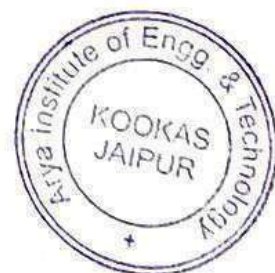


1. For Internal Assessment (IA) of the theory papers: Two Mid-Term Tests of 20 Marks.
2. Institute can arrange a third Mid-Term Test as per the convenience of the students.
3. Syllabus shall be prepared without units.
4. The question paper shall contain seven (07) questions of 16 marks each. The first 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% |





Ref. No. Exam /2018-19/23

Dated: 09/09/2018

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.

DIRECTOR



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

Ms. Neha Jian

c. ME

Mr. Sandeep Jhamb

Mr. Yash Agarwal

d. ECE

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





ARYA Institute of Engg. & Technology

(Affiliated to University of Rajasthan/RTU • Approved by AICTE, New Delhi)

S.P.-40, Kukas Industrial Area (RICO) Jaipur-302 028

• Website : www.arya.institute/jpr.com

• Ph : 0141- 5148801, 5148802, 5148803

• FAX : 01426-510040

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 28th 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 02nd March, 2019 in prescribed format.





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• S.P.- 40, Kukas Industrial Area (RICO) Jaipur - 302028

• Website : www.aryainstitutejpr.com

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

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 (Thursday) | I | MJ- 1 Paper- 1 | M- 411_ B&I (FIN) M- 430_ EL (HR) M- 451_ EB (IT) |
| | II | MJ- 1 Paper- 2 | M- 412_ TCRM (FIN) M- 431_ PMRS (HR) M- 452_ SCL (IT) |
| 06.03.2020 (Friday) | I | MJ- 2 Paper- 1 | M- 420_ CBMR (MKT) |
| | II | MJ- 2 Paper- 2 | M- 421_ MOS (MKT) |

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

II- 1:00 - 3:00 PM.

19/2/20

PRINCIPAL



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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-Nov.-2019 | I | 3CE2-01 AEM-I | 3CS2-01 AEM | 3IT2-01 AEM | 3EC2-01 AEM-I | 3EE2-01 AM | 3ME2-01 AEM-I |
| Saturday 30-Nov.-2019 | I | 3CE4-06 FM | 3CS4-07 SE | 3IT4-07 SE | 3EC4-07 ED | 3EE4-07 EM-I | 3ME4-07 MOS |
| Monday 02-Dec.-2019 | I | 3CE3-04 EM | 3CS3-04 DE | 3IT3-04 DE | 3EC4-04 DSD | 3EE4-05 ECA | 3ME3-04 EM |
| | II | 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 03-Dec.-2019 | I | 3CE4-05 SURVEYING | 3CS4-05 DSA | 3IT4-05 DSA | 3EC4-05 S&S | 3EE3-04 PGP | 3ME4-05 ET |
| | II | 3CE4-08 EG | --- | --- | --- | 3EE4-06 AE | --- |
| Wednesday 04-Dec.-2019 | 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.

II - 01:00 -3:00 PM.

REGISTRAR

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• Toll Free No. : 1800-102-1044

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 (CSE/IT/ME/EE/ECE/CE) | |
|---------------------------|-------|---|---|
| Friday 11-Oct.-2019 | I | 1FY1-04 Communication Skills | 1FY1-05 Human Values |
| Saturday 12-Oct.-2019 | I | 1FY2-02 Engineering Physics | 1FY2-03 Engineering Chemistry |
| Monday 14-Oct.-2019 | I | 1FY2-01 Engineering Mathematics-I | |
| Tuesday 15-Oct.-2019 | I | 1FY3-06 Programming for Problem Solving | 1FY3-07 Basic Mechanical Engineering |
| Wednesday 16-Oct.-2019 | I | 1FY3-08 Basic Electrical Engineering | 1FY3-09 Basic Civil Engineering |

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


REGISTRAR


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ARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, 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) | CAE Graphics (1FY3-28) | | Engg Chemistry Lab (1FY2-21) | Language Lab (1FY1-22) | MP Workshop (1FY3-25) | BCE Lab (1FY3-27) |
|------------------------|-------|----------------------------|-----------------------------------|------------------|-------------------|------------------------|-----|------------------------------|------------------------|-----------------------|-------------------|
| 06.01.2020 (Monday) | I | A1 | B1 | C1 | D1 | E1 | F1 | *** | *** | *** | *** |
| | II | A2 | B2 | C2 | D2 | E2 | F2 | *** | *** | *** | *** |
| 07.01.2020 (Tuesday) | I | *** | A1 | B1 | C1 | D1 | *** | E1 | F1 | *** | *** |
| | II | *** | A2 | B2 | C2 | D2 | *** | E2 | F2 | *** | *** |
| 08.01.2020 (Wednesday) | I | D1 | *** | A1 | B1 | C1 | *** | *** | E1 | F1 | *** |
| | II | D2 | *** | A2 | B2 | C2 | *** | *** | E2 | F2 | *** |
| 09.01.2020 (Thursday) | I | C1 | D1 | *** | A1 | B1 | *** | *** | *** | E1 | F1 |
| | II | C2 | D2 | *** | A2 | B2 | *** | *** | *** | E2 | F2 |
| 10.01.2020 (Friday) | I | B1 | C1 | D1 | *** | A1 | *** | F1 | *** | *** | E1 |
| | II | B2 | C2 | D2 | *** | A2 | *** | F2 | *** | *** | E2 |

NOTE: 1. Shifts Timings :- I - 9:30 am - 12:00 noon. and II - 1:00 - 3:30 pm.
2. Lab Batches will be as per RTU Roll Nos.

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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 Monday | 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) |
| | II | 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 Tuesday | 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) |
| | II | 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 Wednesday | I | 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) |
| | II | 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) | 3IT7-30 Industrial Training (C2) |
| 09.01.2020 Thursday | 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) |
| | II | 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) | 3IT4-22 OOP LAB (C2) |
| 10.01.2020 Friday | 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) |
| | II | *** | 3EC7-30 Industrial Training (A2) | 3ME7-30 Industrial Training (A2) | 3CS7-30 Industrial Training (A2) | 3CS4-21 DSA LAB (B2) | 3IT4-23 SE LAB (C2) |

NOTE: 1. Shifts Timings :- I - 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

ARYA INSTITUTE OF ENGINEERING AND TECHNOLOGY

II MID-TERM EXAMINATION 2020-2021 (III SEM.)

3ME3-04 – Engineering Mechanics

(BRANCH: Mechanical Engineering)

Note: - All questions are compulsory

Max. Marks: 40

Time:- 2 hrs

SECTION-I (Compulsory)

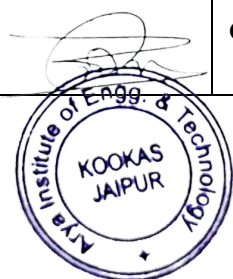
| | | | |
|------|--|------|-----|
| Q. 1 | (a) Differentiate between Kinematics and kinetic in mechanics. | CO-4 | (2) |
| | (b) Define Rectilinear and Curvilinear motion. | CO-4 | (2) |
| | (c) Name the different types of impacts and illustrate those through appropriate sketches. | CO-5 | (2) |
| | (d) Define coefficient of restitution and distinguish between perfectly elastic impact and perfectly plastic impact. | CO-5 | (2) |
| | (e) Explain the law of conservation of energy. | CO-5 | (2) |

SECTION-II (Attempt Any Four)

| | | | |
|------|---|------|-----|
| Q. 2 | (a) Ball A is thrown vertically upward from the top of a 30 m high building with an initial velocity of 5 m/s. At the same instant another ball B is thrown upward from the ground with an initial velocity of 20 m/s. Determine the height from the ground & the time taken at which they pass. | CO-4 | (4) |
| | (b) A projectile is fired from the edge of a 150m cliff with an initial velocity of 180 m/s at an angle of 30° with the horizontal. Neglecting air resistance find (a) The horizontal distance from the gun to the point where the projectile strikes the ground. (b) The greatest elevation above the ground reached by the projectile. | CO-4 | (4) |
| | (c) Two blocks with masses M & m are in contact with each other & are resting on a horizontal Frictionless Floor. When horizontal force is applied to the heavier, the blocks accelerate to the right. Calculate the force exerted between two blocks. | CO-4 | (4) |
| | (d) A ball of mass 1 Kg moving with a velocity of 3m/s strikes a ball of mass 5 Kg moving with a velocity of 0.6 m/s in the same direction, If $e = 0.75$ find the loss in kinetic energy in N-m. | CO-5 | (4) |
| | (e) State D'Alembert's principle. How it is applied in solving problems related to dynamics? | CO-4 | (4) |
| | (f) A body of mass m is allowed to fall from a height 'H' on a floor. After the impact, the body rises to a height of 'h' (or body rebounds to a height of h), then prove that the coefficient of restitution will be equal to $\sqrt{\frac{h}{H}}$. | CO-5 | (4) |

SECTION-III (Attempt Any Two)

| | | | |
|------|---|------|-----|
| Q. 3 | (a) A ball is dropped from a height of 1m & it losses 20% of its kinetic energy after hitting the surface. Find the total distance travelled by the ball before coming to rest. | CO-5 | (7) |
| | (b) What is Projectile motion? Derive the expression for the horizontal range, maximum height and time of flight. | CO-4 | (7) |
| | (c) Write short notes on the following : (i) Principle of work and energy (ii) Principle of linear impulse and momentum. | CO-5 | (7) |



ARYA INSTITUTE OF ENGINEERING AND TECHNOLOGY**II MID TERM EXAMINATION 2020-2021 (V SEM)****5EE5-11: RESTRUCTURED POWER SYSTEM(BRANCH: EE)****Note: -All questions are compulsory.****Time: 2HrMax. Marks: 40****SECTION-I (Compulsory)**

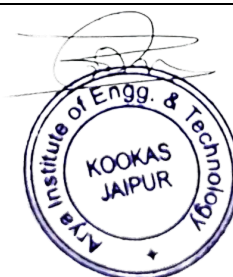
| | | | |
|------|---|------|-----|
| Q. 1 | (a) Write down the importance of Congestion Management. | CO-3 | (2) |
| | (b) Define the term "Power Wheeling". | CO-4 | (2) |
| | (c) Explain Available Transfer Capability. | CO-4 | (2) |
| | (d) What do you understand by Transmission Pricing? | CO-5 | (2) |
| | (e) Explain the Effect of Market Power. | CO-5 | (2) |

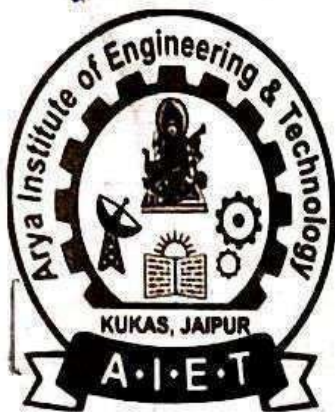
SECTION-II (Attempt Any Four)

| | | | |
|------|--|------|-----|
| Q. 2 | (a) Classify the Congestion Management Methods. | CO-3 | (4) |
| | (b) Explain Loss of Opportunity Cost Method. | CO-4 | (4) |
| | (c) Explain Rolled in Transmission Pricing Method with proper diagram. | CO-5 | (4) |
| | (d) Explain Larner Index and HHI Index. | CO-5 | (4) |
| | (e) Briefly explain about the Market of Ancillary Services. | CO-4 | (4) |
| | (f) Define Locational Marginal Price and their significations. | CO-3 | (4) |

SECTION-III (Attempt any Two)

| | | | |
|------|--|------|-----|
| Q. 3 | (a) What do you understand by the OPF based congestion management? | CO-3 | (7) |
| | (b) Explain all the types of Ancillary services. | CO-4 | (7) |
| | (c) Classify Transmission Pricing Methods with proper diagrams. | CO-5 | (7) |





ARYA Institute of Engg. & Technology

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



MID TERM TEST I/II/III



Name of Student Smiti Agrawal RTU Roll No. 18CAIGS184

Class / Sem/Branch II year III Sem CS Day & Date Saturday 20/11/19

Subject with code Software Engg 3CS4-07 Invigilator's Signatures [Signature]

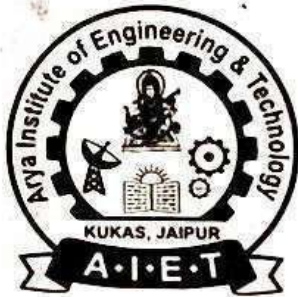
| Question No. | 1 | | | | | 2 | | | | | | 3 | | | | 4 | | 5 | | Total Marks | Sign. of Examiner |
|----------------|--------|---|---|---|---|--------|---|---|---|---|---|--------|----|---|---|---|---|---|---|-------------|-------------------------------|
| | Part A | | | | | Part B | | | | | | Part C | | | | a | b | a | b | | |
| | a | b | c | d | e | a | b | c | d | e | f | a | b | c | d | | | | | | |
| Marks Obtained | 3 | - | - | - | - | 5½ | 6 | - | - | 6 | 5 | 10 | 9½ | - | - | | | | | 45 | <u>[Signature]</u> 9/11/19 |
| Max. Marks | | | | | | | | | | | | | | | | | | | | 60 | |

Part-B

→ All the questions are not attempted.

→ Remaining work is good.

2. b) Coupling: Coupling is the important term in software engineering. It is the study of interdependency between the modules. It states that how modules are connected with each other.



ARYA Institute of Engg. & Technology

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

MID TERM TEST I/II/III



Name of Student Prityal Gupta RTU Roll No. 18MBAIXX636
Class / Sem/Branch ... MBA 4th sem Day & Date... Thursday ... & 05/03/20
Subject with code... employment laws (M-430) Invigilator's Signatures..... [Signature]

| Question No. | 1 | | 2 | | 3 | | 4 | | 5 | | Total Marks | Sign. of Examiner |
|----------------|--------------|---|--------------|---|--------------|---|--------------|---|--------------|---|--------------------|--------------------|
| | a | b | a | b | a | b | a | b | a | b | | |
| Marks Obtained | <u>5 1/2</u> | | <u>5 1/2</u> | | <u>5 1/2</u> | | <u>5 1/2</u> | | <u>5 1/2</u> | | <u>28 1/2 = 29</u> | <u>[Signature]</u> |
| Max. Marks | <u>6</u> | | <u>6</u> | | <u>6</u> | | <u>6</u> | | <u>6</u> | | <u>30</u> | |

(Start to write From here)

Handwritten area for the answer, containing a large number '7' and some scribbles.

SECTION-A

Ans-2: HISTORY OF LABOUR MOVEMENT IN INDIA :-

According to Encyclopedia in Social Sciences :-

Labour movement is conceived
as all of the organisation
of workers towards to the
better than own of the
conditions in either to be
immediately or in their
less or of the more
distant future or labour
movement in India

→ According to G.D.H. Cole :-

Labour movement of a
country, to some degree
a community of outlook
labour movement in a
country emerges from a
need to serve or the
common interest.

The Indian labour movement is more than 150 years old with
its origin of 1850s and 1870s.

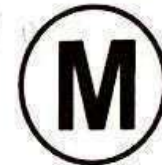
It can be the history labour movement in India.



ARYA Institute of Engg. & Technology

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MID TERM TEST I/II/III



Name of Student MANISH MEGHWA RTU Roll No. 18EATME027

Class / Sem/Branch B.Tech / 4th / M.E Day & Date Friday 06/03/2020

Subject with code Fluid Mechanics Invigilator's Signatures [Signature]

| Question No. | 1 | | | | | 2 | | | | | | 3 | | | | 4 | | 5 | | Total Marks | Sign. of Examiner |
|-------------------|--------|---|---|---|---|--------|---|---|---|---|---|--------|----|---|---|---|---|---|---|----------------|--|
| | Part A | | | | | Part B | | | | | | Part C | | | | a | b | a | b | | |
| | a | b | c | d | e | a | b | c | d | e | f | a | b | c | d | | | | | | |
| Marks Obtained | 4 | 3 | 0 | 2 | 2 | 2 | | 8 | 8 | 7 | | 13 | 14 | | | | | | | 63 |  19-3-20 |
| Max. Marks | | | | | | | | | | | | | | | | | | | | 80 | |

PART C

Q.3

(a) Bernoulli's theorem for steady flow of an incompressible fluid.

- Bernoulli's theorem states that in pipe a fluid flow with steady flow will resisted by pressure force and weight force.
- Steady flow is a flow in which fluid properties like pressure, density and velocity do not changes with respect to time.

To know that

Bernoulli equation :-

$$\frac{P}{\rho g} + \frac{V^2}{2g} + Z = C$$

for two states

$$\frac{P_1}{\rho g} + \frac{V_1^2}{2g} + Z_1 = \frac{P_2}{\rho g} + \frac{V_2^2}{2g} + Z_2$$

→ Bernoulli's equation from Euler's equation

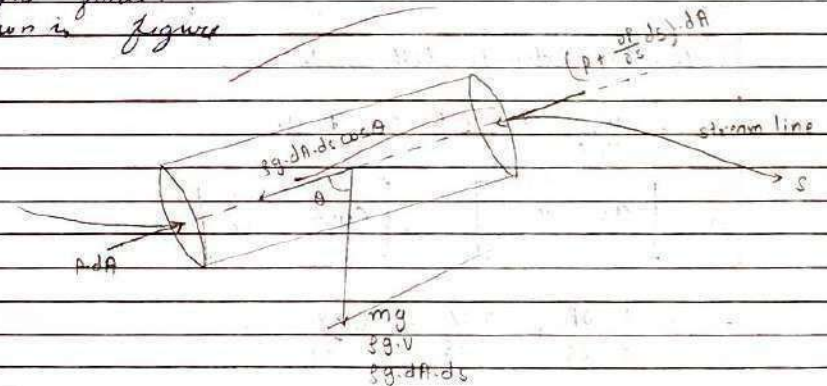
→ Derivation of Euler equation

→ Consider a fluid element of area DA in which flow of fluid through the stream line s

→ The fluid is face three force

- 1) pressure force through stream line
- 2) pressure force on opposite stream line
- 3) weight force

as shown in figure





ARYA Institute of Engg. & Technology

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


MID TERM TEST I/II/III



Name of Student Daya Kumari Verma RTU Roll No. 18EATEE012

Class / Sem/Branch II year, IV sem, EE Day & Date 5/03/2022 / Thursday

Subject with code Electrical machine - II / 4EE4-05 Invigilator's Signatures [Signature]

| Question No. | 1 | | | | | 2 | | | | | | 3 | | | | 4 | | 5 | | Total Marks | Sign. of Examiner |
|-------------------|--------|---|---|---|---|--------|---|---|---|---|---|--------|------|------|---|---|---|---|------|---|----------------------|
| | Part A | | | | | Part B | | | | | | Part C | | | | a | b | a | b | | |
| | a | b | c | d | e | a | b | c | d | e | f | a | b | c | d | | | | | | |
| Marks Obtained | 1.5 | | 2 | | 0 | 5 | 4 | | 3 | | 6 | 10 | | 10 | | | | | 41.5 |  | |
| Max. Marks | 3 | 3 | 3 | 3 | 3 | 6 | 6 | 6 | 6 | 6 | 6 | 10.5 | 10.5 | 10.5 | | | | | 60 | | |

28
40

Part - C

a) Torque slip characteristics of an Induction motor:-

Torque in starting of induction motor is -

$$T_{st} \propto \frac{E_2^2 R_2}{R_2^2 + (X_2)^2}$$

torque in running condition of motor:-

$$T \propto \frac{s E_2^2 R_2}{R_2^2 + (s X_2)^2}$$

Where the at running condition the torque is proportional to the slip if the ~~val~~ when the Emf E_2 and ~~resistance~~ is constant.

In torque slip characteristics for calculate the torque slip characteristics of an induction motor there are two parts by regions:- by which we

- 1) low slip region
- 2) high slip region.

1) low slip region:- In this region there is a condition - $R_2^2 \gg s^2 X_2^2$

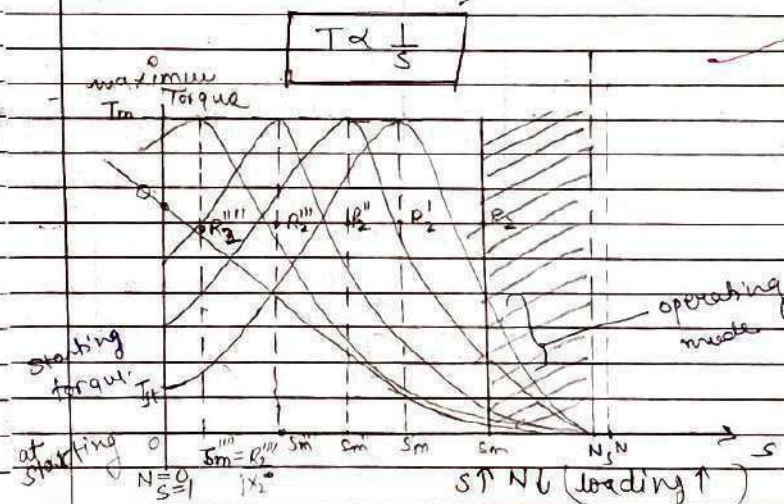
So the -

$$T \propto s$$

The torque is proportional to the slip when the Emf E_2 is constant.

High slip region:- In this region there is a condition - shown as below - $R_2^2 \ll (s X_2)^2$

So the, Torque is proportional to the slip when the reactance (X_2) is constant.





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MID TERM TEST I/II/III

M

Name of Student Gaurav Kumar Srivastava RTU Roll No. 16.EAIEED23

Class / Sem/Branch B.tech / 2nd Sem / ECE Day & Date Thursday 05/03/2020

Subject with code IC Technology B.E.C.1A Invigilator's Signatures [Signature]

| Question No. | 1 | | | | | 2 | | | | | | 3 | | | | 4 | | 5 | | Total Marks | Sign. of Examiner |
|----------------|--------|---|---|---|---|--------|---|---|---|---|---|--------|---|---|---|---|---|---|---|----------------------|-------------------|
| | Part A | | | | | Part B | | | | | | Part C | | | | a | b | a | b | | |
| | a | b | c | d | e | a | b | c | d | e | f | a | b | c | d | | | | | | |
| Marks Obtained | 4 | 4 | | | | 2 | 5 | | | | | 3 | 4 | | | 1 | - | | | <div>23 40</div> | |
| Max. Marks | 5 | 5 | | | | 5 | 5 | | | | | 5 | 5 | | | 5 | 5 | | | | |

Note → add Proper
Content in the
answer sheet
with sig & its
Registration

Unit-1

Q1.

(a)

Crystal defect :-

Crystal defect is an Imperfection in the regular geometrical arrangement of the atom in a crystalline solid. In this defect the regular structure of the solid is defected by Impurities. And Impurities change the regular arrangement of atom. This Impure material doesnot work as a use require.

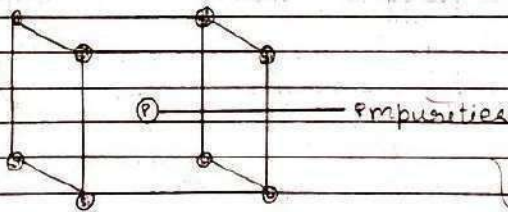


fig:- Impurities introduced in Silicon structure

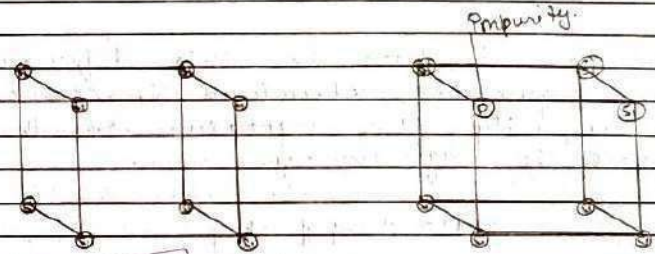


fig:- Si geometric structure

fig:- Impure Si geometric structure

There are three types of crystal defect:-

- ① Point defect
- ② Line defect
- ③ Surface defect

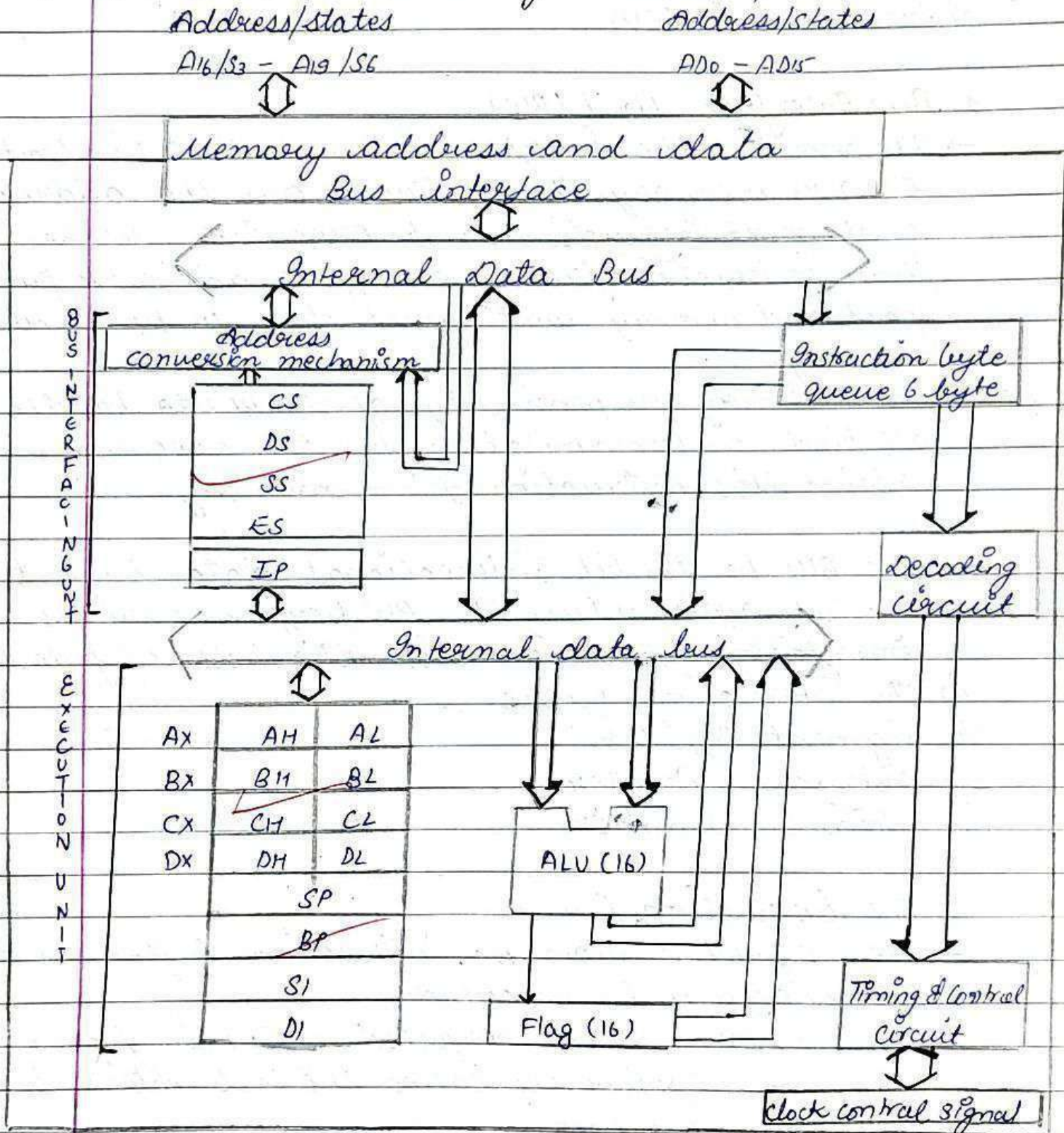
1. Point defect :-

In point defect the impurities are added combine at a point only. Rest whole

15-2-20

UNIT-1 ASSIGNMENT-1

Q1 Draw architecture of 8086 microprocessor in detail



The architecture of 8086 microprocessor is divided into two independent functional parts. These two parts are named as follows:

- 1) Bus Interface Unit (BIU)
- 2) Execution Unit (EU)

1. Bus Interface Unit (BIU)

→ BIU provides the interface between Execution Unit (EU) and memory. The BIU sends out the address of the next instruction to be executed, fetches that instruction from memory, reads data from port and memory, and write data to port and memory.

→ The primary responsibility of the BIU to handle all kind of communication for the execution, fetches that instruction from memory.

The BIU has 16-bit bidirectional data bus and 20-bit address bus. The BIU perform various interfacing operation with the help of following

- (i) The Instruction Queue.
- (ii) Segment Register.
- (iii) Instruction Pointer.
- (iv) Address Summer.

(i) The Instruction Queue -

- The BIU fetches, upto six instruction bytes for the instructions to be executed.
- The BIU stores these perfected bytes in first-in-first-out register set called the instruction queue.
- It is six bytes long.

- The instruction from the queue are taken for decoding sequentially. Once a byte is decoded, the queue is rearranged by pushing it out & the queue status is checked for the possibility of next op code fetch.
- fetching the next instruction while the current instruction executes is called pipelining.

(ii) Segment Register -

- The 8086 microprocessor has 20-bit address bus. So it can address any of 2^{20} (1M) byte memory.
- There are four segment register which store the address of the respective segment. These segment register are named as:

| | |
|---------------------------|---------------------------|
| a) Code segment register | b) Data segment register |
| c) Stack segment register | d) Extra segment register |

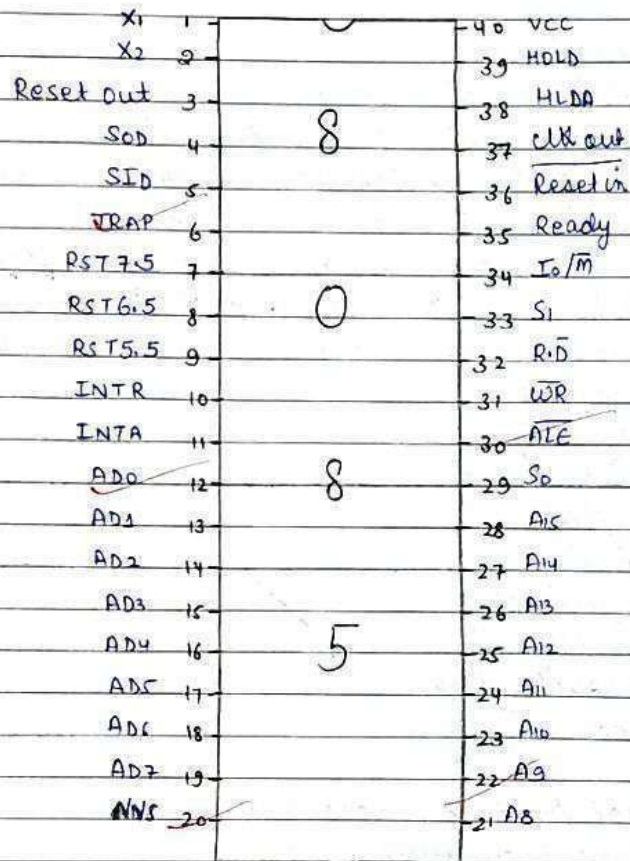
(iii) Instruction pointer -

- The instruction pointer hold the 16-bit address of the next instruction code byte within the code segment. The code segment register points to the base of code segment.
- The instruction pointer contain the distance or offset from this base address to the next instruction byte to be fetched.

(iv) Address Summer -

- The BIU of 8086 microprocessor has 20-bit address bus. It means the actual bus must contain 20-bit. But the bus address of segments (stored in segment register) and offset address (stored in instruction

Q9. Draw the pin diagram 8085 and explain the following
 (i) Higher Order address Bus (ii) Control Signal



(i) Higher Order address Bus-

- Bus is defined as the collection of wires are used to communicated the address, data or other information.
- The 8085 microprocessor has 16 bit address lines which are denoted by (A0-A15). These address lines are divided as higher order address bus A8-A15 and

lower order address bus A0-A7.

- High order address bus (A8-A15) are unidirectional signal lines.
- These lines are exclusively used to send the high order address (most significant 8-bits of 16-bits address) to the peripheral or memory.
- In 8085 microprocessor higher order address bus is available pin 21 to pin 28.

(ii) Control Signals-

Control signals are commonly known as control bus although they are individual signals. The control signals are as follows.

- Read (RD):
 → The read control signal is used to control the reading operation of microprocessor.
 → This is an active low signal, meaning that after the RD signal goes low, the external device place the data on the data bus and microprocessor reads this data.
 → It is important to note that if the data is not placed on the data bus and RD is low, microprocessor will read whatever is available which may be garbage.
- Write (WR):
 → The write control signal is similar to the read control signal (RD).
 → It is also an active low signal.
 → The microprocessor places the data on the data bus and makes WR signal low.
 → This is the responsibility of external devices that when

Date: / /
9

DATE: / /

PAGE NO.:

ASSIGNMENT 801

Unit: 01

Q1. A source with units are one of four possible message. m_1, m_2, m_3, m_4 with the probability $1/2, 1/4, 1/8, 1/8$ resp. Calculate info. content of each message & average content message.

Ans Information content is-

$$I = \log_2(1/p_k)$$

So $m_1 = 1/2$

then,

$$I_1 = \log_2(2) = 1 \text{ bit}$$

$$m_3 = 1/8$$

$$m_4 = 1/8$$

$$I_3 = 3 \text{ bit}$$

$$I_4 = 3 \text{ bit}$$

$$m_2 = 1/4$$

$$I_2 = 2 \text{ bit}$$

Avg. content of message is-

$$H(x) = \sum_{k=1}^n p_k \log_2(1/p_k)$$

$$H(x) = \frac{1}{2} \log_2 2 + \frac{1}{4} \log_2 4 + \frac{1}{8} \log_2 8 + \frac{1}{8} \log_2 8$$

$$H(x) = \frac{1}{2} + \frac{1}{4} \times 2 + \frac{1}{8} \times 3 + \frac{1}{8} \times 3$$

$$= \frac{14}{8} = \frac{7}{4}$$

$$H(x) = 1.75 \text{ bit}$$

2

Q2. Explain discrete memoryless channel & its type with example?

Ans. A communication channel is a path or medium through which the symbols flow to the receiver. A discrete memoryless channel (DMC) is a statistical model with an input x & output y .

$$\left. \begin{matrix} x_1 \\ x_2 \\ x_i \\ x_j \end{matrix} \right\} x \rightarrow P(y_i/x_i) = y \left\{ \begin{matrix} y_1 \\ y_2 \\ y_i \\ y_j \end{matrix} \right.$$

During each unit of time, the channel accepts an input symbol from x & an input symbol generator produces an output symbol from y . The channel is discrete when alphabets of x & y are both finite.

It is memoryless when the current output depends on only the current input & on any of the previous inputs.

Types:-

(i) Lossless Channel:-

$$P(y/x) = \begin{bmatrix} 3/4 & 1/4 & 0 & 0 & 0 \\ 0 & 0 & 1/3 & 2/3 & 0 \\ 0 & 0 & 0 & 0 & 1 \end{bmatrix}$$

(ii) Deterministic Channel:-

$$P(y/x) = \begin{bmatrix} 1 & 0 & 0 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

(iii) Noiseless Channel:-

$$\begin{matrix} x_1 \rightarrow y_1 \\ x_2 \rightarrow y_2 \\ \vdots \\ x_m \rightarrow y_m \end{matrix}$$

(iv) Binary Symmetric Channel:-

$$P(y/x) = \begin{bmatrix} 1-P & P \\ P & 1-P \end{bmatrix}$$

write theory also of different channel.

Q3. A binary channel matrix is given by

$$P = \begin{matrix} & y_1 & y_2 \\ \begin{matrix} x_1 \\ x_2 \end{matrix} & \begin{bmatrix} 2/3 & 1/3 \\ 1/10 & 9/10 \end{bmatrix} \end{matrix}$$

This means $P(y_1/x_1) = 2/3$, $P(y_2/x_1) = 1/3$, $P(x_1) = 1/3$ & $P(x_2) = 2/3$. Determine $H(x)$, $H(x/y)$, $H(y)$, $H(y/x)$ & $H(x,y)$.

$$P(y_1) = P(y_1/x_1) \cdot P(x_1) + P(y_1/x_2) \cdot P(x_2)$$



INDEX & EVALUATION REPORT

Group No.:-

Name of lab with code:- FPGA Lab - 8CS6A

| S. No. | | Turn No. | Name of Experiment | Page No. | Sched. Date of Expt. | Date of Perf. Expt. | Marks Awarded by Lab Faculty/Incharge | | | | | | | | | |
|--------|---|----------|--|----------|----------------------|---------------------|---------------------------------------|---|------------------|------------------|-------------|---|-----------|----------------|------------|-----------------------------|
| | | | | | | | Attendance (6) | | Preparation (10) | Performance (10) | Record (10) | | Viva (10) | Extra work (4) | Total (50) | Teacher's Initial with Date |
| | | | | | | | + | - | | | + | - | | | | |
| 1 | 1 | | Plotting various signal line. | 2-6 | 28/1 | 28/1 | 6 | | 8 | 8 | 7 | | 6 | 3 | 38 | |
| 2 | 2 | | Verification of sampling theorem | 7-9 | 28/1 | 28/1 | 6 | | 8 | 8 | 7 | | 7 | 3 | 39 | 237/25 |
| 3 | 3 | | Derive impulse response of given s/m | 10-11 | 4/2 | 4/2 | 6 | | 8 | 9 | 7 | | 6 | 3 | 39 | 237/25 |
| 4 | 4 | | Perform linear convolution of given sequence | 12-13 | 4/2 | 4/2 | 6 | | 8 | 9 | 7 | | 6 | 3 | 39 | 237/25 |
| 5 | 5 | | N-Point DFT of sequence | 15-16 | 25/2 | 25/2 | 6 | | 9 | 9 | 8 | | 7 | 3 | 42 | 237/25 |
| 6 | 6 | | Circular convolution | 17-18 | 25/2 | 25/2 | 6 | | 9 | 9 | 8 | | 7 | 3 | 42 | 11/31/19 |
| 7 | 7 | | Linear convolution using DFT & IDFT. | 19-20 | 25/2 | 25/2 | 6 | | 9 | 9 | 8 | | 7 | 3 | 42 | 237/25 |

Cont.



ARYA Institute of Engineering & Technology

INDEX & EVALUATION REPORT

Student Name:- Prityal Agarwal

Group No.:-

Name of lab with code:- FPQA-8CS6A

| S. No. | Turn No. | Name of Experiment | Page No. | Sched. Date of Expt. | Date of Perf. Expt. | Marks Awarded by Lab Faculty/Incharge | | | | | | | | | | Teacher's Initial with Date |
|--------------|----------|---|----------|----------------------|---------------------|---------------------------------------|-----|------------------|------------------|-------------|-------|-----------|----------------|------------|----------------------|-----------------------------|
| | | | | | | Attendance (6) | | Preparation (10) | Performance (10) | Record (10) | | Viva (10) | Extra work (4) | Total (50) | | |
| | | | | | | + | - | | | + | - | | | | | |
| 8 | 8 | Draw sampling/decimation of sum of 2 sinusoids. | 21-22 | 11/3 | 11/3 | 6 | | 9 | 9 | 8 | | 8 | 3 | 43 | <u>37</u> 11/3/19 | |
| 9 | 9 | To simulate receiver & transmitter for BPSK | 23 | 11/3 | 11/3 | 6 | | 9 | 9 | 8 | | 7 | 3 | 42 | <u>35</u> 11/3/19 | |
| 10 | 10 | Evaluate second order differential eqn. | 24 | 11/3 | 11/3 | 6 | | 9 | 9 | 8 | | 8 | 3 | 43 | <u>37</u> 11/3/19 | |
| 11 | * | Viva-Voce | 25-27 | 11/3 | 11/3 | | | | | | | | | | | |
| 12 | * | Viva-Voce | 28-30 | 11/3 | 11/3 | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Max. Marks:- | | | 500 | Marks Obtained:- | | | 409 | Percentage:- | | | 81.8% | | | | | |

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 a student comes to lab without preparation of any experiment, he/she is to be awarded minus 10 marks.



Student Name:- Pratishtha Sharma

Name of lab with code:- FPGA (BCS6A)

| S. No. | Turn No. | Name of Experiment | Page No. | Sched. Date of Expt. | Date of Perf. Expt. | Marks Awarded by Lab Faculty/Incharge | | | | | | | | | |
|--------|----------|---|----------|----------------------|---------------------|---------------------------------------|---|------------------|------------------|-------------|---|-----------|----------------|------------|-----------------------------|
| | | | | | | Attendance (6) | | Preparation (10) | Performance (10) | Record (10) | | Viva (10) | Extra work (4) | Total (50) | Teacher's Initial with Date |
| | | | | | | + | - | | | + | - | | | | |
| 1 | | Plotting of various elementary sig like impulse fun, unit step, ramp, quadratic, sine wave, a general sinusoidal func | 2-5 | 28/1 feb | 29/1 feb | 6 | | 7 | 8 | 7 | | 6 | 3 | 37 | 23/2/19 |
| 2 | | Verifying of Sampling theorem | 6-8 | 28/1 feb | 28/1 feb | 6 | | 7 | 8 | 7 | | 6 | 3 | 37 | 25/2/19 |
| 3 | | Impulse response of given system | 9-10 | 4 feb | 4 feb | 6 | | 7 | 8 | 7 | | 6 | 3 | 37 | 23/2/19 |
| 4 | | Linear convolution of 2 given sequence | 11-12 | 4 feb | 4 feb | 6 | | 8 | 8 | 7 | | 6 | 3 | 36 | 23/2/19 |
| 5 | | To find N-point DFT of given sequence | 13-14 | 25 feb | 25 feb | 6 | | 8 | 8 | 9 | | 7 | 3 | 42 | 23/2/19 |
| 6 | | Perform circular convolution of two given sequence | 15 | 25 feb | 25 feb | 6 | | 8 | 8 | 9 | | 7 | 3 | 41 | 23/2/19 |
| 7 | | Perform linear convolution of two given sequence | 16 | 25 feb | 25 feb | 6 | | 8 | 8 | 9 | | 7 | 3 | 41 | 23/2/19 |

Cont.



ARYA Institute of Engineering & Technology

INDEX & EVALUATION REPORT

Student Name:- Pratishtha Sharma

Group No.:-

Name of lab with code:- FPGA (BCSE 7A)

| S. No. | Turn No. | Name of Experiment | Page No. | Sched. Date of Expt. | Date of Perf. Expt. | Marks Awarded by Lab Faculty/Incharge | | | | | | | | | | Teacher's Initial with Date |
|--------------------|----------|------------------------------------|------------------------|----------------------|---------------------|---------------------------------------|---|------------------|------------------|-------------|---|-----------|----------------|------------|-------------|-----------------------------|
| | | | | | | Attendance (6) | | Preparation (10) | Performance (10) | Record (10) | | Viva (10) | Extra work (4) | Total (50) | | |
| | | | | | | + | - | | | + | - | | | | | |
| 8 | | Linear Convolution DFT & IDFT | 20-21 | 11/3 | 11/3 | 6 | | 8 | 8 | 9 | | 6 | 3 | 40 | 375/12/3/19 | |
| 9 | | To simulate BPSK | 22-23 | 11/3 | 11/3 | 6 | | 8 | 9 | 8 | | 7 | 3 | 41 | 375/12/3/19 | |
| 10 | | Evaluate the 2 nd order | 24-27 | 11/3 | 11/3 | 6 | | 8 | 9 | 8 | | 7 | 3 | 41 | 375/12/3/19 | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Max. Marks:- | | | Marks Obtained:- | | | Percentage:- | | | | | | | | | | |

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.

Cont.



ARYA Institute of Engineering & Technology

INDEX & EVALUATION REPORT

Student Name:- Aditya Kumar Hsodiya

Group No.:- C2

Name of lab with code:- CGM 5-IT4-21

| S. No. | Turn No. | Name of Experiment | Page No. | Sched. Date of Expt. | Date of Perf. Expt. | Marks Awarded by Lab Faculty/Incharge | | | | | | | | | | Teacher's Initial with Date |
|--------------------|----------|---|------------------------|----------------------|---------------------|---------------------------------------|---|------------------|------------------|-------------|---|-----------|----------------|------------|----------|-----------------------------|
| | | | | | | Attendance (6) | | Preparation (10) | Performance (10) | Record (10) | | Viva (10) | Extra work (4) | Total (50) | | |
| | | | | | | + | - | | | + | - | | | | | |
| 8 | | W.a.p. to implement B-D transformation | 43 47 | 27-9-19 | 27-9-19 | 06 | | 07 | 06 | 07 | | 06 | 03 | 35 | | |
| | | | | | | | | | | | | | | | | |
| 9 | | W.a.p. to draw a 3D bar graph using graphics. | 48 50 | 27-9-19 | 27-9-19 | 06 | | 07 | 06 | 06 | | 07 | 02 | 34 | | |
| | | | | | | | | | | | | | | | | |
| 10 | | W.a.p. to implement fractal image in C. | 51 54 | 27-9-19 | 27-9-19 | 06 | | 06 | 07 | 07 | | 06 | 03 | 35 | 23/10/19 | |
| | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| Max. Marks:- | | | Marks Obtained:- | | | Percentage:- | | | | | | | | | | |

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



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