Dr.T.THIMMAIAH INSTITUTE OF TECHNOLOGY
(Estd. 1986) Oorgaum, Kolar Gold Fields, Karnataka – 563120
(Affiliated to VTU, Belgaum, Approved by AICTE - New Delhi)

Department of Mining Engineering
B.E. VI Semester, III - Internal Assessment Test

Scheme : 2018
Course Name : Mineral Processing & Fuel Technology
Duration : 90 minutes
Course Instructor : Paul Prasanna Kumar

Academic Year : 2020 - 21
Course Code : 18MN63
Max marks : 50
Date : 10/08/2021

Answer any one full Question from each part

Part-A (20 marks)

Q. No.	Question	Marks	CO	RBT
1a	Explain the working principle of Jigging with neat sketch.	10	CO4	2
1b	Explain the working principle of Wilfley/Shaking table with neat sketch.	10	CO4	2
2a	Discuss the concept of flowing film concentration with neat sketch.	10	CO4	2
2b	Discuss the working process of Heavy media separation.	10	CO4	2

Part-B (20 marks)

3a	With neat sketch, discuss the construction and working principle of thickening process.	10	CO4	2
3b	With neat sketch, discuss the construction and working principle of drying process.	10	CO4	2
4a	With neat sketch, explain the working principle of flotation	10	CO4	2
4b	Draw the beneficiation flow sheet of copper	10	CO5	2

Part-C (10 marks)

5	Draw the beneficiation flow sheet of lead	10	CO5	2
6	Draw the beneficiation flow sheet of iron ore	10	CO5	2

6/8/2021
Course Instructor

6.8.21
PAC (Name & Signature)

6.8.2021
HOD

11/1/22
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F.No-DrTTIT/IQAC/2020-21/059BP

Department of Mining Engineering

B.E. VI Semester III Internal Assessment Test

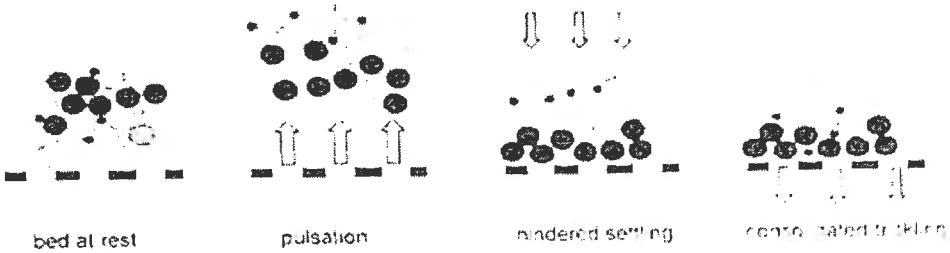
Scheme and Solution

Scheme :2018 **Academic Year: 2020-21**

Course Name: Mineral Processing & Fuel Technology **Course Code: 18MN63**

Course Instructor: Paul Prasanna Kumar **Max marks:50**

Date: 05/10/2021

Q.No.	Brief Solution	Marks
1a	Jigging  bed at rest pulsation hindered settling consolidated stage ✓ It is a special form of hindered settling resulting in stratification of particles into layers of different density followed by removal of different layer. ✓ This stratification is achieved by repeatedly affording an opportunity to a very thick suspension of mixed particles to settle for a short time. ✓ Let a simple experiment with a circular screen fixed inside a vertical hallow cylinder, which can be called a Jig, be considered. ✓ A group of light particles, all of the same size, with one heavy particle at the top of light particles are placed on a screen as shown in figure (A). If water is introduced from the bottom to create a pulsion stroke, all the particles are pushed upwards. ✓ Light particles are pushed more along the distance while heavy particles are pushed less along the distance as shown in figure (B). Now, if the water is withdrawn from the bottom to create a suction stroke, light particles settle down less along the distance while the heavy particles settle down more along the distance.	3 7 10
1b	**Shaking Table (Wilfley Table):** ✓ Here a differential motion(shaking where forward and backward movement occurs) and a riffled deck with cross flowing water is used to create a particle separation. ✓ The shaking motion is asymmetrical, being slow in forward direction and being rapid in backward direction. ✓ Due to differential motion a conveying motion is imparted on the particle	2

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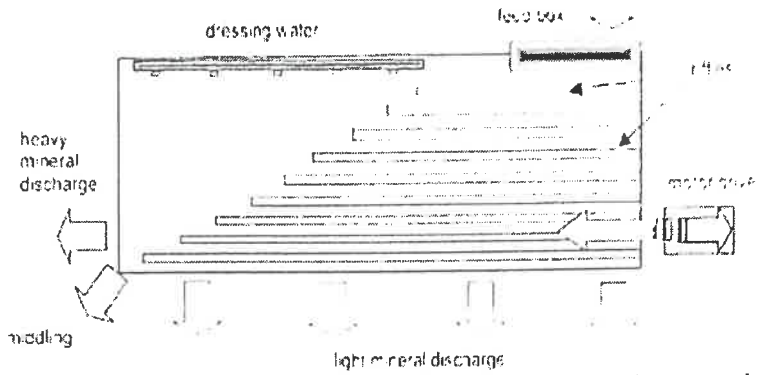
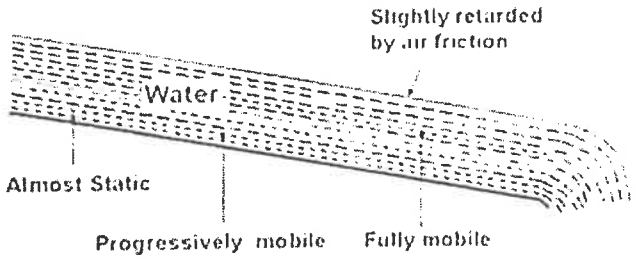
	which are in contact with the table deck in the direction of motion due to friction.  ✓ The feed is screened to < 3mm and fed into a small hopper above the north-east corner of the shaking table, where it is mixed with clean water. ✓ The feed fan outs towards the edge of the table, allowing the operator to see exactly what is happening, and to decide where to subdivide the fan into distinct streams each dominated by a particular mineral. ✓ The shaking motion has a slow westward stroke and rapid return eastward stroke – often with a bump. ✓ This induces settled particles to crawl in a juddering manner westward along the table with the thin film of slurry. ✓ The shaking is usually very rapid with a frequency of 4 to 5.5 strokes per second. ✓ The shaking displacement is usually half to 1-inch to-and-fro.	4 4 10
2a	**FLOWING FILM CONCENTRATION**  Flow of water on Sloping Deck Flowing film concentration has been defined as sorting of mineral particles on flat surfaces in accordance with the size, shape and specific gravity of the particles moved by a flowing film of water. When water is made to flow over a bare sloping deck, the velocity of water adjacent to the deck is zero and increases as the distance from the deck increases reaching maximum at the top surface of water. If a number of spheres, composed of two kinds of minerals, one heavy another light, and are of different sizes, are introduced into a thick layer of water, they will be separated during their fall through this layer. The biggest heavy sphere falls faster on to the deck through water and is least affected by the current and lies nearest to the point of entry. The smallest light sphere will drift furthest downstream.	2 8 10

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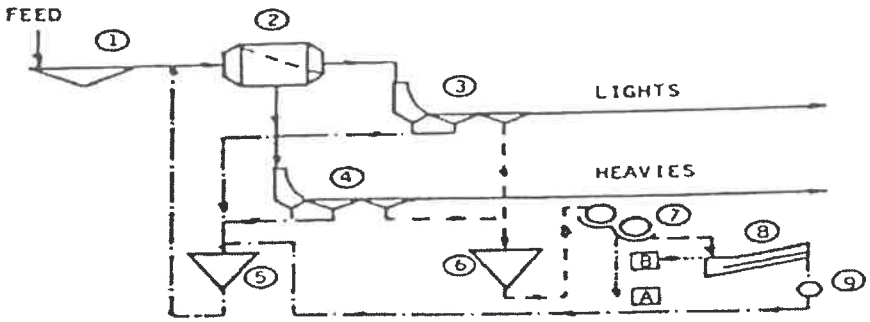
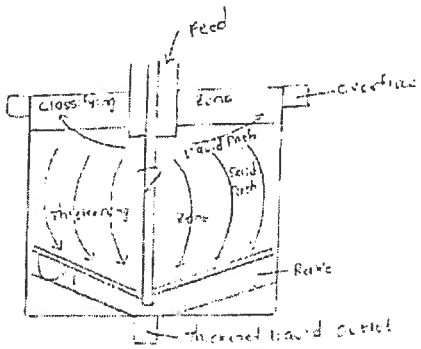
2b	Heavy Media Separation:  1 FEED PREPARATION SCREEN 2 HEAVY MEDIUM SEPARATION 3 LIGHTS DRAIN/WASH SCREEN 4 HEAVIES DRAIN/WASH SCREEN 5 HEAVY MEDIUM SUMP 6 DILUTE HEAVY MEDIUM SUMP 7 MAGNETIC SEPARATOR 8 DENSIFIER 9 DEMAGNETISING COIL ✓ Heavy media separation dates back to several centuries. ✓ Initially, a fine magnetite was used as a heavy media. ✓ In 1936, a plant was designed employing organic liquid as a heavy media for treating anthracite coal containing ore. ✓ The heavy media process is usually used for treatment of coarse coal above 9.5 mm in size. ✓ Finer coal below 9.5 mm cannot be cleaned economically in heavy medium. ✓ The settling velocities of the fine material are very low, and consequently the time required to separate the lighter coal from the heavy becomes excessive. ✓ Nowadays, magnetic field has been used as a heavy media at fineness of between 100 and 325 mesh. ✓ Separation using heavy media can be done in either conventional heavy media tanks or in heavy media cyclones.	3 7 10
3a	Construction & working Principle of thickening process:  ✓ Gravity sedimentation (or) thickening is the most widely applied dewatering techniques in mineral processing. ✓ It is a very cheap, high capacity process, which involves very low shear	2 3

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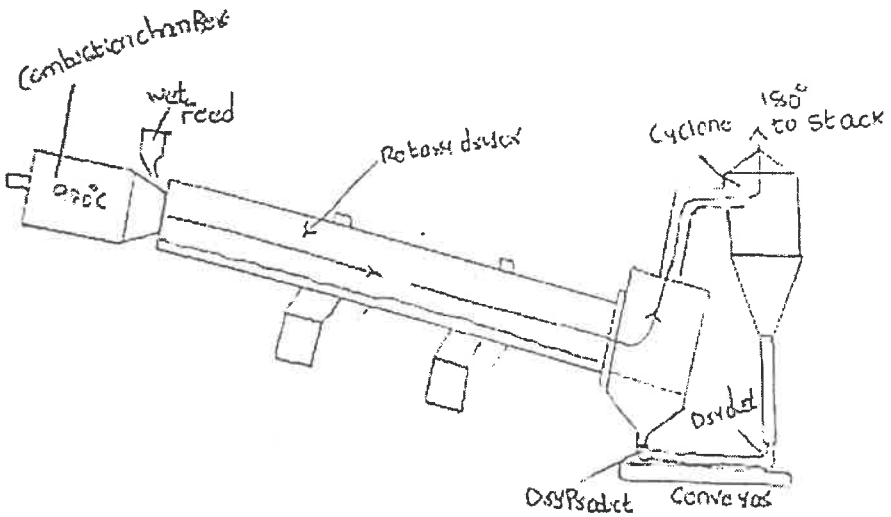
	forces thus providing good conditions for flocculation of the fine particles. ✓ The thickener is used to increase the concentration of the suspension by sedimentation. ✓ The continuous thickener consists of a cylindrical tank of diameter ranging from 2m to 200m in diameter and a depth of 1 – 7m. ✓ Within the tank one or more rotating radial arms from which blades are suspended so as to rake the settled solids towards the central outlet. ✓ Thickener tanks are constructed of steel, concrete or both. ✓ Pulp is fed into the center via feed well placed up to 1 m below the surface, in order to cause little disturbance. ✓ The liquid overflows on peripheral launder, while the solids which settle over the entire bottom of the tank are withdraw as thickened pulp from an outlet at the center.	8 10
3b	Construction & working Principle of Drying:  ✓ Drying of concentrates prior to shipping is the last operation performed in mineral processing plants. ✓ It reduces the cost of transport and it reduces the moisture content to about 5% by weight. Dust losses are more, if the moisture content is low. ✓ Rotary thermal dryers are used for drying operations. ✓ The shell is slightly slope, so that material move from feed to discharge end under gravity. ✓ Hot gases or air are fed in either at the feed end to give parallel flow or at the discharge end to give counter-current flow. ✓ Parallel flow dryers are used in the majority of current operations because they are more fuel efficient and have greater capacity.	2 8 10
4a	**Principles of Flotation:**	

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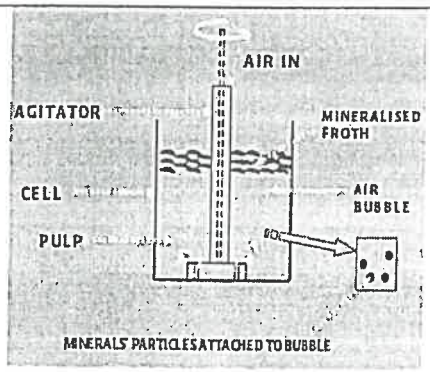


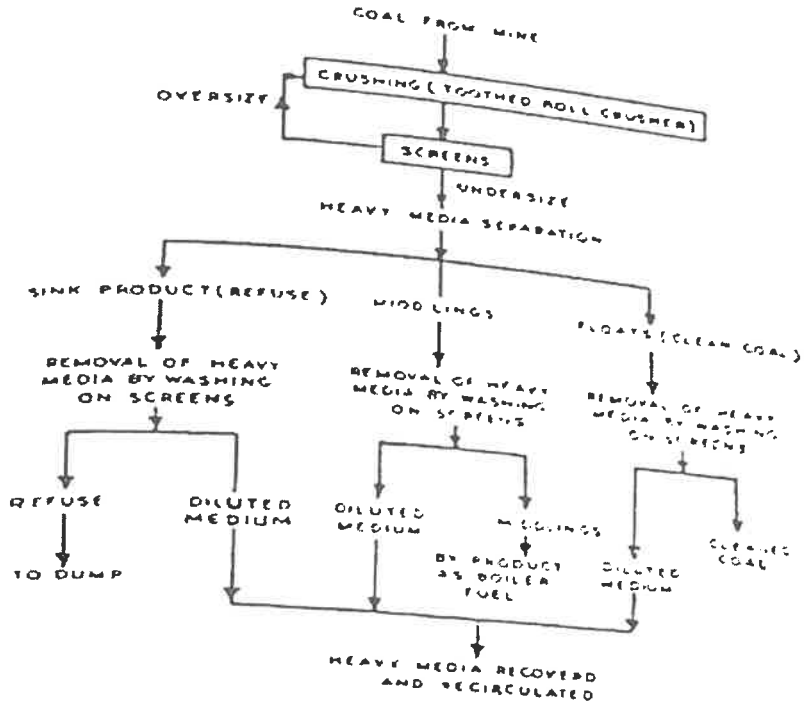
2

- ✓ This process commences with Comminution (to increase the surface area of the ore).
- ✓ The ore is ground to fine powder and wetted with water to form a Slurry.
- ✓ A Surfactant chemical (known as COLLECTOR) is mixed with slurry to render the desired mineral HYDROPHOBIC.
- ✓ This slurry (now PULP) is then placed in the water bath containing FROTHER, which is aerated to create bubbles.
- ✓ The desired mineral escape water by getting attached to the air bubbles, which rise to the surface and form what is called FROTH. This Froth is then removed and the concentrated mineral is refined.

8

10

4b Flow Sheet of Copper



10

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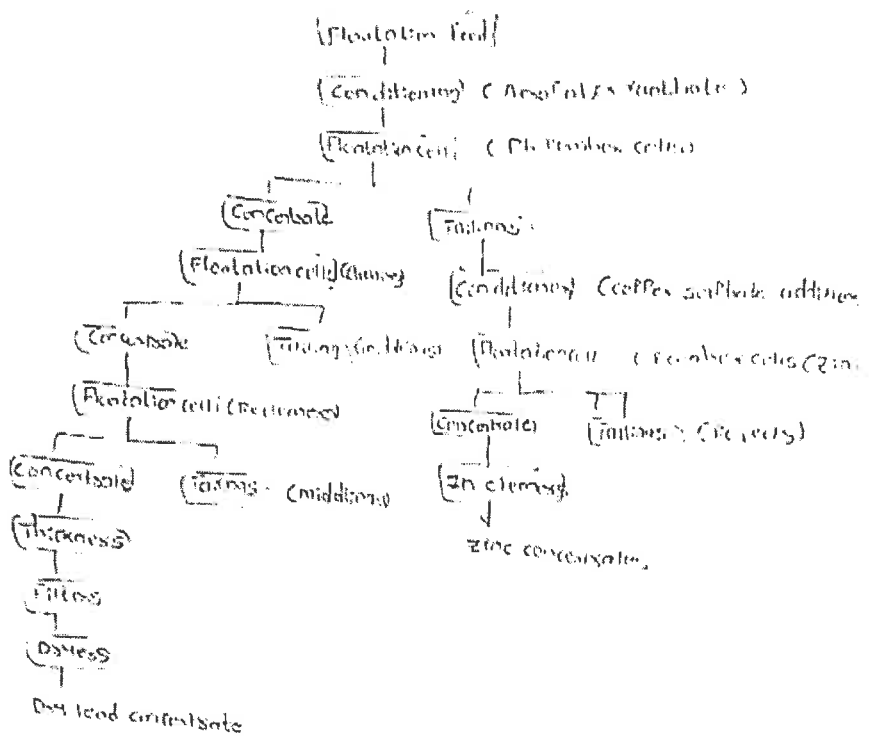
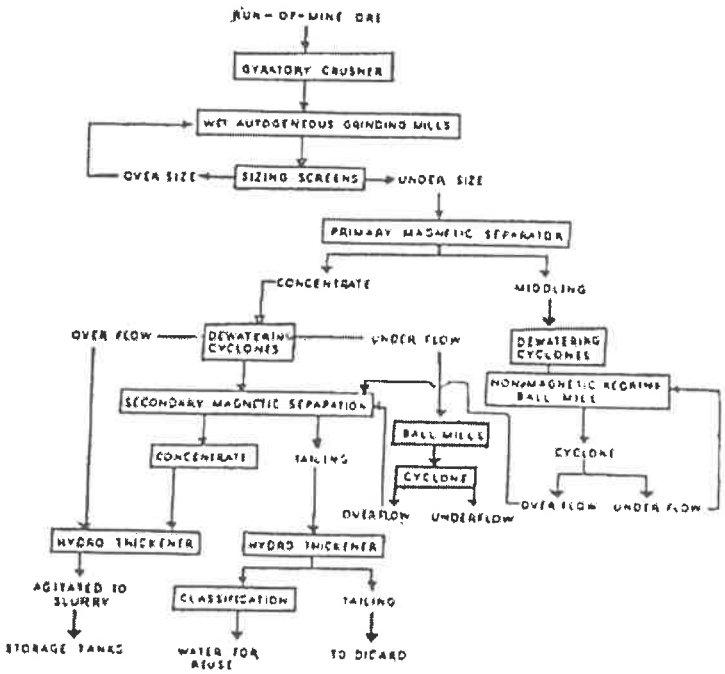
5	Flow Sheet of Lead 	10
6	Flow Sheet of Iron Ore 	10

5/10/2021
Course Instructor

PAC Member (Name & Signature)

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Department of Mechanical Engineering

2018 Scheme

B.E. VII Semester Class test

Academic Year 2020-21

Course Name:- Control Engineering **Course code:- 17ME73**

Date: 19/1/2021 **Max marks: 30**

Course Instructor:- Sagar S

Answer any one question from Part A and Part B which carries 12 Marks and answer one question from part C which carries 6 Marks.

Part A

1. Sketch the root locus plot for a given open loop transfer function G(s) H(s)= *K(S+6)/ (S+1) (*S+3) and comment on stability.
2. Sketch the root locus plot for a given open loop transfer function G(s) H(s)= *K(S+1)/* s2 *(S+3) (*S+5) and comment on stability.
3. Sketch the root locus plot for a given open loop transfer function G(s) H(s)= *K / (S+2) (* S2+8S+20) and comment on stability.

Part B

4. Sketch the Bode Plot for G(s) H(s) = K/ S*(S+4)(S+10)* and also obtain Gain Margin, Phase Margin, Gain cross over frequency and phase cross over frequency.
5. Sketch the Bode Plot for G(s) H(s) = KS^2/ (1+0.02S)(1+0.2S) and Determine the value of K for the gain cross over frequency to be 5 rad/sec.
6. Sketch the Bode Plot for G(s) H(s) = $Ke^{-0.1S}$/ S (1+S) (1+0.1S) and Determine the value of K for the gain cross over frequency to be 5 rad/sec.

Part C

7. Using RH Criteria determine the value of K and intersection point SS4+6S3+13.5S2+13.5S+K=0 (OR) S4+10S3+36S2+40S+K=0

Course Instructor

19/1/21

HOD

19/1/21

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Department of Mechanical Engineering

2018/15 Scheme

B.E. VII Semester Assignment

Academic Year 2020-21

Course Name: Control Engineering	**Course code:- 17ME73**
Assigned Date: 9/11/2020	**Max marks: 30**
Course Instructor:- Sagar S	**Submission Date: - 12/11/2020**

Answer all Questions/Any Questions (As per the course instructor)

1) Sketch the Root Locus Plot for the given system with open loop transfer function $G(s)H(S) = \frac{K}{S(S+3)(S^2+3S+4.5)}$ and also comment on stability

2) Sketch the Root Locus Plot for the given system with open loop transfer function $G(s)H(S) = \frac{K}{S(S+3)(S^2+3S+11.25)}$ and also comment on stability.

3) Sketch the Root Locus Plot for the given system with OLTF $G(s)H(S) = \frac{K}{S(S+2)(S^2+8S+20)}$ and also comment on stability.

4) Sketch the Root Locus Plot for the given system with OLTF $G(s)H(S) = \frac{K}{S(S+2)(S+4)}$ and also comment on stability.

5) Sketch the Root Locus Plot for the given system with OLTF $G(s)H(S) = \frac{K}{S(S+3)(S+5)}$ and also comment on stability.

Course Instructor

2/11/20
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F. No:069AP

Department of Mining Engineering
2017 Scheme

B.E. VIII Semester Quiz for Ist IA
Academic Year 2020 - 2021

Course Name: Computer Application in Mining

Course code: 17MN82
Max marks: 30
Date: 17.05.2021

Course Instructor: Paul Prasanna Kumar

Answer all the questions

1. CAD Came into existence by
   a) Dr. Robert Issac Newton
   b) Ivan Sutherland
   c) Dr. P. J. Hanratty
   d) Shigleg

2. Who invented CAD in 1961 for his Doctoral Thesis?
   a) Dr. Robert Issac Newton
   b) Ivan Sutherland
   c) Dr. P. J. Hanratty
   d) Shigleg

3. The Computer Communicates with the user via a
   a) Light Pen,
   b) Sketch Pad,
   c) ICG
   d) cathode ray tube

4. Interactive computer graphics
   a) It is a tool
   b) Communicator
   c) Screen
   d) Input device

5. The fundamental reasons for implementing a computer-aided design system are
   a) To increase the productivity of the design
   b) To improve the quality of design
   c) To improve communications
   d) All the above

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6. Design process was named after
   a) Dr. Robert Issac Newton
   b) Ivan Sutherland
   c) Dr. P. J. Hanratty
   d) Shigleg

7. In Evaluation requires the fabrication & testing of a prototype model to
   a) Assess
   b) Redesign
   c) Create
   d) all the above

8. CAD is used in the following fields, choose the Odd one
   a) Mining field
   b) Civil field
   c) Medical field
   d) Automobile field

9. Match the Following

a) Synthesis	Engineering Analysis
b) Analysis & Optimization	Automated drafting
c) Evaluation	Geometric Modeling
d) Presentation	Design Review

10. Analysis of mass properties provides properties such as
   a) Weight
   b) triangular shapes
   c) stress- strain
   d) heat transfer

11. ADAMS was developed at university of
   a) Massachusetts University
   b) British Columbia University
   c) McGill University
   d) Michigan University

12. Other names for stroke-writing technique are
   a) line drawing
   b) digital TV
   c) Scan graphics
   d) graphics terminals

13. Other names for Raster scan technique include
   a) line drawing
   b) digital TV
   c) random position
   d) vector writing

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14. The computer has grown to become essential in the operations of
    a) Business
    b) Government
    c) the military
    d) all the above

15. The typical interactive computer graphics is a combination of
    a) hardware & software
    b) light pad & sketch pad
    c) directed-beam
    d) direct-view beam

16. The Hardware includes a
    a) central processing unit
    b) printers
    c) plotters
    d) all the above

17. Benefits of Computer-Aided Design
    a) Increase in Productivity
    b) Improvement in Design
    c) Fewer design errors
    d) All the above

18. How many types of commands are used by the designer to constructs the graphical image of the object?
    a) 2
    b) 3
    c) 4
    d) 5

19. CAD systems can increase productivity in the drafting function by roughly how times over manual drafting
    a) 5
    b) 10
    c) 15
    d) 20

20. The disadvantages of the batch mode is
    a) time lag
    b) poor design
    c) low quality
    d) all the above

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21. The workstation must accomplish the following functions
    a) To increase the productivity of the design
    b) To improve the quality of design
    c) To improve communications
    d) None of the above

22. Which of the following is not a graphics terminals
    a) directed-beam refresh
    b) direct-view storage tube
    c) raster scan
    d) stroke writing

23. Disadvantages of direct view storage tube are
    a) lack of colour capability
    b) the inability to use a light pen
    c) lack of animation capability
    d) all the above

24. The capabilities of multicolored images and animated pictures in computer graphics are largely dependent on
    a) Hardware
    b) Software
    c) screen clarity
    d) system specifications

25. The typical colour CRT uses three electron beams of colours
    a) red, green and blue
    b) red, orange and green
    c) orange, green and blue
    d) none of the above

26. How many function keys are available in key board?
    a) 9
    b) 12
    c) 18
    d) 24

27. Which technology tends to increase the CPU
    a) Embedded system
    b) VSLI
    c) ML
    d) Python

17/5/2021

Course Instructor

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F.No-DrTTIT/IQAC/2020-21/069AP

Department of Mining Engineering

2017Scheme

Other Assessment Scheme & Solution

B.E, VIIISemester Ist Internal Quiz

Course Name:**Computer Application in Mining** Course Code:**17MN82**Course Instructor:**Paul Prasanna Kumar**Max Marks:**30**

Date: **17.05.2021**

Q.No.	Brief Solution	Allotted Marks
1	Dr. Robert Issac Newton	1
2	Ivan Sutherland	1
3	Cathode Ray Tube	1
4	It is a tool	1
5	All the above	1
6	Shigleg	1
7	Assess	1
8	Medical field	1
9	Synthesis – Geometric Modelling Analysis & Optimization – Engineering Analysis Evaluation – Design Review Presentation – Automated drafting	4
10	Weight	1
11	Michigan University	1
12	line drawing	1
13	digital TV	1
14	all the above	1

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15	hardware & software	1
16	all the above	1
17	All the above	1
18	3	1
19	5	1
20	time lag	1
21	None of the above	1
22	stroke writing	1
23	all the above	1
24	Hardware	1
25	red, green and blue	1
26	12	1
27	VSLI	1

17/5/2021
Course Instructor

HOD

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Golden Valley Educational Trust

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OORGAUM, K.G.F. - 563 120.

Department of Computer Science & Engg.
No.....
Date.....
* Dr. T.T.I.T., K.G.F. *

BLUE BOOK

Certificate

This is to certify that Mr. / Ms. S. YASHWANTH

bearing **USN.** *No.* 1GV19CS092 *has satisfactorily completed the course of Tests and assignments as prescribed by Visvesvaraya Technological University for* 4th *Semester B.E./ M.Tech, Degree in* CSE 'B' *Branch / Specialization for the academic year* 20-21

for the Subject Micro Controller & Embedded Systems *and Code* 18CS44

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IA Date	IA	Max Marks	Marks obtained: IA (30)	Assign (10)	Quiz (10)	C-Test (10)	Total Marks	Signature of Faculty	Signature of Student
27/5/21	I	40					26		
1/7/21	II						38		
10/8/21	III		18	10			28		
Final Average Marks Obtained							31		

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Signature of HOD

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Assignment / Quiz / Class Test

Certificate

This is to certify that Mr. / Ms. Yeshwitha. J

bearing **USN.** *No.* 1GV16EC070 *has satisfactorily completed the course of Tests and assignments as prescribed by Visvesvaraya Technological University for* 8th *Semester B.E./ M.Tech, Degree in* ECE *Branch / Specialization for the academic year* 2020 *for the Subject* Wireless cellular & LTE 4G Broad Band. *and Code* 15EC81

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Date	Particulars	Max Marks	Marks obtained	Signature of Faculty	Signature of Student
17/3/20	A/Q/CT	10	10		Yeshwitha.J
24/4/20	A/Q/CT	10	10		Yeshwitha.J
18/5/20	A/Q/CT	10	9		

Signature of HOD

Golden Valley Educational Trust

Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

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OORGAUM, K.G.F. - 563 120.

Lab Internal Assessment Book

This is to certify that Mr. / Ms. DHANUSH.S.K.

bearing **USN.** *No.* 1GV19CV005 *has satisfactorily completed the course of Lab internal assessment for* 4th *Semester B.E./ M.Tech, Degree in* CIVIL *Branch / Specialization for the academic year* 2021 *for the Subject* GEOLOGY LAB *and Code* 18CVL47

For Departmental Use Only :

Sl. No.	IA	Max Marks	Marks obtained				Signature of Faculty	Signature of Student
			Part A (10)	Part B (20)	VIVA (10)	Total Marks		
	I	40	07	19	06	32		D.L.S.K.
	II							D.L.S.K
Final Average Marks Obtained						06/10		D.L.S.K.

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Signature of HOD

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18/1/22

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Head - ISAC
Dr. K. BALAVI.T

1

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F .No:DrTTIT/IQAC/2020-21/066AP

Department of Electronics and Communication Engineering

Academic Year 2020 - 2021

Semester **Name of the Course**

SLNO	USN	NAME OF THE STUDENT	TA TI MARKS
1	1GV18EC002	AJAZ AHMED I	32
2	1GV18EC003	AWAIZ PASHA	31
3	1GV18EC006	DAISY SNEHA S	19
4	1GV18EC007	DARSHINI S	26
5	1GV18EC008	DHEERAJ S	37
6	1GV18EC009	HARIPRIYA B	30
7	1GV18EC010	JAYANTH G	33
8	1GV18EC011	KEERTHI REDDY G B	25
9	1GV18EC014	KRITISH KUMAR R	31
10	1GV18EC015	LAVANYA S	35
11	1GV18EC016	MEGHA R	30
12	1GV18EC017	NAVYASHREE S N	29
13	1GV18EC018	NISHANTH GOWDA C G	28
14	1GV18EC019	ONGOLE HRUTHIK ROSHAN	17
15	1GV18EC020	P KOUSHIK	25
16	1GV18EC021	PAUL A SAM	29
17	1GV18EC024	POOJA S	33
18	1GV18EC026	PRATHIBA K L	30
19	1GV18EC027	PRATHIKSHA S	34
20	1GV18EC028	R RAKESH	36
21	1GV18EC029	RAKESH A S	26
22	1GV18EC030	REVANTH V	23
23	1GV18EC031	SAHANA	20
24	1GV18EC032	SHIRISHA S P	36
25	1GV18EC034	SHRUTHI R	32
26	1GV18EC036	SRIKANTH S	AB
27	1GV18EC038	THANUSHA R	34
28	1GV18EC039	UMA SHREE V	34
29	1GV18EC040	USHA DEVI N	27
30	1GV18EC041	VIDHYA KRISHNAN N	27
31	1GV18EC042	VIJAYANAND G	33
32	1GV18EC043	VISHAL RAGUL P	28
33	1GV19EC400	ARCHANA K	28
34	1GV19EC401	BHAVYA M V	23
35	1GV19EC402	CHETHAN C N	14
36	1GV19EC404	LOKESH C	26
37	1GV19EC405	MAHESH M	29

FACULTY SIGNATURE **HOD**

Vijaya Bharathi.

Hold - IQAC

Dr. K. PALany

18/1/22

PRINCIPAL
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Oorgaum, K.G.F. - 563 120.

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(Estd. 1986) Oorgaum, Kolar Gold Fields, Karnataka – 563120
(Affiliated to VTU, Belgaum, Approved by AICTE - New Delhi)

F.No:DrTTIT/IQAC/2020-21/066AP

Department of Electronics & Communication **Engineering**

Internal Examination Result Analysis

.....I st..... Internal Test

Date

Semester: 5th **Academic Year:** 2020 - 21

Course Name: Principles of Communication **Course Code** 18EC53

Sl.No		
1	**Total No. of Students:**	37
2	**No. of Students Absent:**	01
3	**No. of Students Appeared:**	36
4	**No. of Students Passed:**	035
5	**No. of Students Failed:**	01
6	**Percentage of Pass**	
	Based on Total Students:	94.5
	Based on Students Appeared:	97

Result Analysis

Description	Below 40%	Above 75%
No. of Students	One	14

Vijayabharathi.

Course Instructor **HOD**

Hod - IQAC
Dr. K. PALANI

18/1/22
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F.No: DrTTIT/IQAC/2020-21/066BP

Department of Electronics & Communication **Engineering**

..... IST ..... **Internal Test**

Corrective Action Report

Semester: 5th **Academic Year:** 2020-21

Course: Rinciples of Communication **Course Code:** 18EC53

Sl.No.	Range of unit test marks %	No of Students	Actions taken to improve the performance	Remarks
1	Below 40%	one	Special class taken & counselled	
2	>75%	14	Counselled them about the University Rank	

Vijayarthenalli.

Course Instructor

HOD

Head - IQAC
Dr. T. THIMMAIAH

18/1/22
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F.No: DrTTIT/IQAC/2020-21/066DP

Department of Electronics & Communication **Engineering**

.....I..... **Internal Test**

Counseling Report (>75%)

Semester: 5th **Academic Year:** 2020-21

Course: Principles of Communication **Course Code:** 18EC53

Counseled Date: 15/10/2020 **Total Duration:** 1 Day

Sl.No	USN	Name	Counseling Report	Remarks
1)	1GV19EC404	Mahesh	Counselled about their Academic Performance & Motivated them to try for university Ranks	
2)	1GV18EC041	Vidhya Krishna		
3)	1GV18EC039	Uma Shree		
4)	1GV18EC038	Thanusha		
5)	1GV18EC040	Usha Devi		
6)	1GV18EC027	Prathiksha		
7)	1GV18EC024	Pooja		
8)	1GV18EC015	Lavanya		
9)	1GV18EC008	Deeraj		
10)	1GV18EC014	Kavitha kumari		

Course Instructor

Vijaya Bharathi
HOD

Head - IQAC
Dr. T. THIMMAIAH INSTITUTE OF TECHNOLOGY

16/11/20
PRINCIPAL
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(Estd. 1986) Oorgaum, Kolar Gold Fields, Karnataka – 563120
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F.No:DrTTIT/IQAC/2020-21/066CP

Department of Electronics & Communication **Engineering**

.....1st..... Internal Test

Remedial Class Report(< 40%)

Semester: 5th **Academic Year:** 2020-21

Course: Principles of Communication **Course Code:** 18EC53

Course Instructor: Dr. K.M PALANISWAMY

From: 12/10/2020 **To:** 15/10/2020

Total Duration: 5 Days

Sl.No	USN	Name	Topics covered	Remarks
1)	1GV19EC402	Chethan. C.N.	DSBSC, DSBC, SSBSC Vestigial side band, AM Modulators, Detectors FM Modulators, FM Detectors	Verified the class Material.

Course Instructor

HOD

Hod - IQAC
Dr. K.M PALANISWAMY

18/1/21
PRINCIPAL
Dr. T. Thimmaiah Institute of Technology
Oorgaum, K.G.F. - 563 120.