



Ref.No/VTU/Exam/2018-2019/434

STRICTLY CONFIDENTIAL

Date : 29-03-2019

DR.VANDANA JHA, Department of CS, K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE
Sir/Madam,

Sub : Appointment as paper setter for **June / July-2019** Examinations.

By the direction of the Vice-Chancellor, I am pleased to appoint you as paper setter for the subject with details as under. **You are requested to accept the assignment.**

Exam:

B.E/B.Tech/B.Arch/M.Arch/MBA/MCA/M.Tech

Sem: 6

Course / Branch: CS

Subject Name: Management &

Entrepreneurship

No. of sets: 1

To be submitted before: 15-04-2019

Subject Code: 06AL61

INSTRUCTIONS TO PAPER SETTERS (2006 SCHEME)

- This appointment is assigned a unique ID represented by the barcode accompanied by the ID in human readable form. The first page of the manuscript cannot be used for a different subject or by a different faculty member. In case you have to use a different first page, write the appointment ID by hand prominently.
- Typed manuscript / scheme will not be accepted. Please write down the questions LEGIBLY.
- Use only 'generally accepted' short forms. (It is difficult to decipher 'S.T.' as 'Show that'.)
- Set eight questions, out of which, the students have to answer five full questions. (Unless otherwise specified).
- Wherever syllabus is made unitwise consisting of **8 units**, ONE FULL question should be set from each unit, (not applicable to MBA).
- Questions shall strictly be from the university prescribed books, covering the entire syllabus. There shall be a maximum of **four subdivisions in each question**. Please avoid subdivisions, within subdivisions, for the sake of clarity. Wherever applicable, there shall be a numerical problem in each question.
- Provide neat sketches as these figures are scanned directly from the manuscript for final printing. Sketches should be drawn in black ink only.
- Explicitly indicate the figure numbers. For example, identify the figure pertaining to Q 2(c) as Fig. Q2 (c) immediately adjacent to it.
- Whenever problems are included, make sure to give all the relevant data from the data handbook, to avoid the issue of handbooks / tables / charts etc..
- However, if special charts, data book are required to be given, please explicitly mention the same, in the 'Instruction to the candidates', at top of the Q.P.
- Scrupulously scrutinize the question paper for its completeness (subjectcode, subject title & clarity), missing data / figure / marks allocated / repetition of entire question or part thereof & out of syllabus questions. Read the question paper meticulously and seal it in the appropriate barcode cover enclosed, before sending it to the university.
- Furnish the scheme & solutions, in the enclosed sheet meant for it & seal it in the appropriate cover. Indicate boldly the final answers for all numerical problems.
- A question paper without "Scheme & Solution" is liable for rejection.
- Ensure that the manuscript of the question paper, along with scheme & solution, reaches the undersigned, by Registered post on or before the expiry of the date mentioned above.
- Ensure that you personally destroy the rough draft & other material used to prepare the manuscript. No part of the manuscript or the full version should be retained in any form.
- In case, you are unable to accept the assignment, please return all enclosures to the undersigned by return of post, with valid reasons for not accepting it.

Thanking You,

Yours sincerely,

Registrar (Evaluation)

ff

Encls:

1. Copy of the syllabus.
2. Manuscript sheets
3. Inner cover for the manuscript.
4. Outer barcode cover for QP manuscript & scheme.
5. Inner cover for the scheme & solution.
6. Remuneration bill.
7. Scheme & solution sheet.



B.M.S. COLLEGE OF ENGINEERING, BENGALURU - 19
Autonomous Institute Affiliated to VTU

Dr. Suresh Ramaswamyreddy
Controller of Examinations

Phone: 9482662000

Ref. No./BMSCE/COE/SEE/2018-19

Date : 14.11.2018

STRICTLY CONFIDENTIAL

To,
Prof. Santhosh Kumar J
Associate Professor, Dept. of CSE
K.S.School of Engineering and Management,
Bengaluru- 560062

Sir/ Madam,

Sub: Appointment as paper setter for *DEC 2018* Autonomous Examinations - Reg.

By the directions of the Principal BMSCE, it's my pleasure to appoint you as paper setter for the course with details as mentioned below. You are requested to accept the assignment and send the manuscript, hard and soft copy in **MS Word (in CD)** with font style Times New Roman and font size 12 throughout the text of the question paper.

It is also requested to send the manuscript (hard copy) of detailed **Scheme & Solutions** (*handwritten/typed/scanned, No cut & paste*) along with the question paper.

EXAM:	B.E	SEM:	VII	BRANCH:	Computer Science
COURSE:	Big Data Analytics	COURSE CODE:	16CS7DEBDA		
NO.OF SET/S:	01	LAST DATE OF SUBMISSION: 27.11.2018			

INSTRUCTIONS TO PAPER SETTERS

- Questions shall strictly be set from Autonomous Syllabus of B.M.S. College of Engineering, Bengaluru - 560 019. Prescribed text books/reference books mentioned in the syllabus shall only be referred.
- Question Paper is to be set for **100 marks**.
- Compulsorily scrutinize the question paper for its **completeness**, such as Course code, Course title, time duration, maximum marks, instructions to students, marks allocation etc.
- In case, Sketches are not drawn using MS-WORD, then provide neat sketches using 'black pen' in separate sheets. Leave sufficient space between sketches. Do not draw sketches along with the running matter. Sketches are directly scanned from the manuscript for final printing.



Ref.No/VTU/Exam/2018-2019/799

STRICTLY CONFIDENTIAL

Date : 08-10-2018

MRS.DEEPA YOGISH, Department of CS, K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE
Sir/Madam,

Sub : Appointment as paper setter for Dec-2018 / Jan-2019 Examinations.

By the direction of the Vice-Chancellor, I am pleased to appoint you as paper setter for the subject with details as under. **You are requested to accept the assignment.**

Exam: B.E / B.Tech

Course / Branch: CS

Sem: 5

Subject Name: Object Oriented Modeling and Design

Subject Code: 15CS551

No. of sets: 1

To be submitted before: 27-10-2018

INSTRUCTIONS TO PAPER SETTERS (CBCS 2015 SCHEME)

- This appointment is assigned a unique ID represented by the barcode accompanied by the ID in human readable form. The first page of the manuscript cannot be used for a different subject or by a different faculty member. In case you have to use a different first page, write the appointment ID by hand prominently.
- Typed manuscript / scheme will not be accepted. Please write down the questions LEGIBLY.
- Use only 'generally accepted' short forms. (It is difficult to decipher 'S.T.' as 'Show that'.)
- Set **TEN** questions, such that **TWO** questions are set from EACH MODULE. Intra-module questions are to be set such that the questions should cover the entire module and further, should be answerable for the set marks. **Each question will carry 16 marks.**
- Questions shall be designed such that the Revised Bloom's Taxonomy (RBT) levels as mentioned in the syllabus are assessed.
- Questions shall **strictly be from the university prescribed books, covering the entire syllabus.** There shall be a **maximum of THREE subdivisions in each question.** Please avoid subdivisions, within subdivisions, for the sake of clarity. Wherever applicable, there shall be a numerical problem in each question.
- Provide neat sketches as these figures are scanned directly from the manuscript for final printing. Sketches should be drawn in black ink only.
- Explicitly indicate the figure numbers. For example, identify the figure pertaining to Q 2(c) as Fig. Q2 (c) immediately adjacent to it.
- **Whenever problems are included, make sure to give all the relevant data from the data handbook, to avoid the issue of handbooks / tables / charts etc..**
- However, if special charts, data book are required to be given, please explicitly mention the same, in the 'Instruction to the candidates', at top of the Q.P.
- Scrupulously scrutinize the question paper for its completeness (subject, code, subject title & clarity), missing data / figure / marks allocated / repetition of entire question or part thereof & out of syllabus questions. Read the question paper meticulously and seal it in the appropriate barcode cover enclosed, before sending it to the university.
- Furnish the scheme & solutions, in the enclosed sheets meant for it & seal it in the appropriate cover. Indicate boldly the final answers for all numerical problems.
- A question paper **without "Scheme & Solution" is liable for rejection.**
- **Ensure that the manuscript of the question paper, along with scheme & solution, reaches the undersigned, by Registered post on or before the expiry of the date mentioned above.**
- **Ensure that you personally destroy the rough draft & other material used to prepare the manuscript. No part of the manuscript or the full version should be retained in any form.**
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Thanking You,

Yours sincerely,

Registrar (Evaluation)
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5. Inner cover for the scheme & solution.

6. Remuneration bill.

7. Scheme & solution sheet.



DAYANANDA SAGAR COLLEGE OF ENGINEERING

Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru-560078

An Autonomous Institute Affiliated To Visvesvaraya Technological University, Belgaum. Approved by AICTE & ISO 9001:2008 Certified

Accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade

Dr Kiran S
Controller of Examinations

email: coe-dsce@dayanandasagar.edu
Ph: 080-42117117

DSCE/EXAM/ / 2018-2019

Date: 21/03/2019

Strictly Confidential

To
Prof. Santosh Kumar S.
Designation: Professor
Department of: ISE
College: KSSEM, Bangalore.

Respected Sir/ Madam,

Sub: Appointment as Paper Setter for May-June 2019 UG Examinations

It is my pleasure to inform that you are appointed as paper setter for Undergraduate Engineering Examinations of May-June 2019. I request you to kindly set the paper for the Course mentioned below and submit the same by 15th April 2019.

Level	UG
Program	ISE
Semester	VI SEM
Course title	JAVA & J2EE
Course code	IS63.

Guidelines for Paper Setting:

1. Set the Questions as per the Syllabus/Scheme provided and confine it to the syllabus.
2. Question paper should cover entire syllabus as per the requirement of Outcome Based Education with 40% of total marks to bloom's cognitive levels 1 & 2, 40% for bloom's cognitive levels 3 & 4 and 20% to bloom's cognitive levels 5 & 6.
3. **Question ONE:** Question One has 20 sub questions of one marks each covering all modules. Four questions from each module have to be set. The questions have to be set such that the expected answer could be a *One word answer/One sentence answer/Definitions/Fill in the blank*. Multiple choice questions and Match the Following may be avoided.
4. There shall be a maximum of four sub questions in each question(Question 2 to 8). Kindly indicate the distribution of marks for each subdivision.
5. Kindly prepare the Question paper in MS-Word Format, burn it in the CD provided, take a print and affix the signature for authentication.
6. There is no internal choice in Modules 1, 2 and 3. Whereas internal choice has to be given in module 4 (Question 5 OR 6) and module 5 (Question 7 OR 8).
7. If the questions include any sketches kindly draw it with black pen in the print out of the question paper.



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Dr Kiran S

Controller of Examinations

email : coe-dsce@dayanandasagar.edu

Ph: 080-42117117

DSCE/EXAM/ / 2018-2019

Date: 21/03/2019

Strictly Confidential

To

Prof. Santosh Kumar, J.

Designation: Professor

Department of: CSE

College: KSSEM

Respected Sir/ Madam,

Sub: Appointment as Paper Setter for May-June 2019 UG Examinations

It is my pleasure to inform that you are appointed as paper setter for Undergraduate Engineering Examinations of May-June 2019. I request you to kindly set the paper for the Course mentioned below and submit the same by **15th April 2019**.

Level	UG
Program	<u>ISE</u>
Semester	<u>VI SEM</u>
Course title	<u>Programming the web</u>
Course code	<u>TS652</u>

Guidelines for Paper Setting:

1. Set the Questions as per the Syllabus/Scheme provided and confine it to the syllabus.
2. Question paper should cover entire syllabus as per the requirement of Outcome Based Education with 40% of total marks to bloom's cognitive levels 1 & 2, 40% for bloom's cognitive levels 3 & 4 and 20% to bloom's cognitive levels 5 & 6.
3. **Question ONE:** Question One has 20 sub questions of one marks each covering all modules. Four questions from each module have to be set. The questions have to be set such that the expected answer could be a *One word answer/One sentence answer/Definitions/Fill in the blank*. Multiple choice questions and Match the Following may be avoided.
4. There shall be a maximum of four sub questions in each question(Question 2 to 8). Kindly indicate the distribution of marks for each subdivision.
5. Kindly prepare the Question paper in MS-Word Format, burn it in the CD provided, take a print and affix the signature for authentication.
6. There is no internal choice in Modules 1, 2 and 3. Whereas internal choice has to be given in module 4 (Question 5 OR 6) and module 5 (Question 7 OR 8).
7. If the questions include any sketches kindly draw it with black pen in the print out of the question paper, specify figure no. and include it in the question.



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Dr Kiran S
Controller of Examinations

email : cse-dsce@dayanandasagar.edu
Ph: 080-42117117

DSCE/EXAM/ / 2018-2019

Date: 15/12/2018

Strictly Confidential

To

Prof. Channabasava

Designation: Assistant professor

Department of: CSE

College: KSSEM

Respected Sir/ Madam,

Sub: Appointment as Paper Setter for PG Semester End Examination, Jan-Feb 2019

It is my pleasure to inform you that you are appointed as paper setter for Postgraduate Semester End Examinations of January-February 2019. I request you to kindly set the paper for the Course whose details are mentioned below and submit the same by 10th January, 2019.

Level	Postgraduate
Program	M.Tech CSE
Semester	I
Course title	AOS
Course code	18CS13

Guidelines for Paper Setting:

1. Set the Questions as per the scheme provided and confine it to the syllabus.
2. Question paper should cover entire syllabus as per the requirement of Outcome Based Education with 40% of total marks to bloom's cognitive levels 1 & 2, 40% for bloom's cognitive levels 3&4 and 20% to bloom's cognitive levels 5 & 6.
3. There shall be a maximum of four sub questions in each question. Kindly indicate the distribution of marks for each subdivision.
4. Kindly prepare the Question paper in MS-Word Format, burn it in the cd provided, take a print out and affix the signature for authentication.
5. If the questions include any sketches kindly draw it with black pen in the print out of the question paper, specify fig no and include it in the question.
6. Indicate the permissible handbooks, charts, data books wherever necessary
7. Kindly return the declaration form duly signed
8. Prepare and enclose the bill as per the remuneration shown in the table overleaf. Kindly indicate the Name of Bank, IFSC code and complete Account number for immediate payment of remuneration through RTGS. Confidentiality will be maintained with respect to your bank details.



DAYANANDA SAGAR COLLEGE OF ENGINEERING

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Accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade

Dr Kiran S
Controller of Examinations

email : coe-dsce@dayanandasagar.edu
Ph: 080-42117117

DSCE/EXAM/ / 2018-2019

Date: 21/10/2018

Strictly Confidential

To
Prof. Channabasava U
Designation: _____
Department of: CSE
College: KSSEM

Respected Sir/ Madam,

Sub: Appointment as Paper Setter for Dec 2018-Jan 2019 UG Examinations

It is my pleasure to inform that you are appointed as paper setter for Undergraduate Engineering Examinations of Dec 2018-Jan 2019. I request you to kindly set the paper for the Course mentioned below and submit the same by 18th November 2018.

Level	UG
Program	BE
Semester	I, III, V, VII
Course title	<u>System Modeling and Simulation</u>
Course code	<u>CS73</u>

Guidelines for Paper Setting:

1. Set the Questions as per the Syllabus/Scheme provided and confine it to the syllabus.
2. Question paper should cover entire syllabus as per the requirement of Outcome Based Education with 40% of total marks to bloom's cognitive levels 1 & 2, 40% for bloom's cognitive levels 3 & 4 and 20% to bloom's cognitive levels 5 & 6.
3. **Question ONE:** Question One has 20 sub questions of one marks each covering all modules. Four questions from each module have to be set. The questions have to be set such that the expected answer could be a *One word answer/One sentence answer/definitions/Fill in the blank*. Multiple choice questions may be avoided.
4. There shall be a maximum of four sub questions in each question(Question 2 to 8). Kindly indicate the distribution of marks for each subdivision.
5. Kindly prepare the Question paper in MS-Word Format, burn it in the CD provided, take a print and affix the signature for authentication.
6. There is no internal choice in Modules 1, 2 and 3. Whereas internal choice has to be given in module 4 (Question 5 OR 6) and module 5 (Question 7 OR 8).
7. If the questions include any sketches kindly draw it with black pen in the print out of the question paper, specify figure no. and include it in the question.



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Dr Kiran S
Controller of Examinations

email : coe-dsce@dayanandasagar.edu
Ph: 080-42117117

DSCE/EXAM/ / 2018-2019

Date: 21/10/2018

Strictly Confidential

To

Prof. Channabavava

Designation: Asst. Prof

Department of: I SE

College: KSSEM

Respected Sir/ Madam,

Sub: Appointment as Paper Setter for Dec 2018-Jan 2019 UG Examinations

It is my pleasure to inform that you are appointed as paper setter for Undergraduate Engineering Examinations of Dec 2018-Jan 2019. I request you to kindly set the paper for the Course mentioned below and submit the same by 18th November 2018.

Level	UG
Program	BE
Semester	I, III, V, VII
Course title	<u>Data Structure with C</u>
Course code	<u>17IS3DCDSC</u>

Guidelines for Paper Setting:

1. Set the Questions as per the Syllabus/Scheme provided and confine it to the syllabus.
2. Question paper should cover entire syllabus as per the requirement of Outcome Based Education with 40% of total marks to bloom's cognitive levels 1 & 2, 40% for bloom's cognitive levels 3 & 4 and 20% to bloom's cognitive levels 5 & 6.
3. **Question ONE:** Question One has 20 sub questions of one marks each covering all modules. Four questions from each module have to be set. The questions have to be set such that the expected answer could be a *One word answer/One sentence answer/definitions/Fill in the blank*. Multiple choice questions may be avoided.
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Dr Kiran S

Controller of Examinations

email : coe-dsce@dayanandasagar.edu

Ph: 080-42117117

DSCE/EXAM/ / 2018-2019

Date: 21/10/2018

Strictly Confidential

To

Prof. Channabasava

Designation: Asst. Prof.

Department of: I&E

College: KSSEM

Respected Sir/ Madam,

Sub: Appointment as Paper Setter for Dec 2018-Jan 2019 UG Examinations

It is my pleasure to inform that you are appointed as paper setter for Undergraduate Engineering Examinations of Dec 2018-Jan 2019. I request you to kindly set the paper for the Course mentioned below and submit the same by 18th November 2018.

Level	UG
Program	BE
Semester	I, III, V, VII
Course title	<u>Introduction to Java</u>
Course code	<u>IEIS761</u>

Guidelines for Paper Setting:

1. Set the Questions as per the Syllabus/Scheme provided and confine it to the syllabus.
2. Question paper should cover entire syllabus as per the requirement of Outcome Based Education with 40% of total marks to bloom's cognitive levels 1 & 2, 40% for bloom's cognitive levels 3 & 4 and 20% to bloom's cognitive levels 5 & 6.
3. **Question ONE:** Question One has 20 sub questions of one marks each covering all modules. Four questions from each module have to be set. The questions have to be set such that the expected answer could be a *One word answer/One sentence answer/definitions/Fill in the blank*. Multiple choice questions may be avoided.
4. There shall be a maximum of four sub questions in each question(Question 2 to 8). Kindly indicate the distribution of marks for each subdivision.
5. Kindly prepare the Question paper in MS-Word Format, burn it in the CD provided, take a print and affix the signature for authentication.
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7. If the questions include any sketches kindly draw it with black pen in the print out of the question paper, specify figure no. and include it in the question.

An Autonomous Institution, Affiliated to Visvesvaraya Technological University, Belagavi
Approved by AICTE, New Delhi and Accredited by NAAC - 'A' Grade

P.B. No. 6429, Yelahanka, Bengaluru - 560 064, Karnataka, India.

T : +91 80 2216 7800 | F : +91 80 2216 7805 | E : principal@nmit.ac.in | W : www.nmit.ac.in

Ref: NMIT/ ATNM/QP/

Date: 23/01/19

To,

Dr. Ramnarayana Simha

Dear Sir,

Subject: Question Paper Preparation – reg

With respect to the above subject, we are happy to inform you that your name has been included in the Panel of Examiners for preparing the question papers for the academic year 2019-20.

In this regard, I request you to please prepare one set of question paper for the following subject and send it across to the undersigned by 23/01/19 by registered post.

The remuneration will be paid according to the VTU norms. If you can't accept this assignment, request you to inform the same to the undersigned through fax or phone immediately.

Program : BE /M.Tech / MBA / MCA	Branch :	Semester :
Subject :	Fluid Mechanics	

Thanking you,

With regards,


Chairman, BOE

- Encl.: 1.Syllabus Copy
2.Model Question Paper
3.Bloom's Taxonomy
4.Instruction to the Paper Setter
5.Format for Manuscript of QP
6.Remuneration Bill
7.Format for Preparation of Scheme
8.Self Address (Big Cover)
9.Manuscript Cover (Small Cover)



Ref.No/VTU/Exam/2018-2019/ 2046

STRICTLY CONFIDENTIAL

Date : 24-09-2019

DR.RAMA NARASIMHA K, Department of ME, K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE
Sir/Madam,

Sub : Appointment as paper setter for **June / July-2019** Examinations.

By the direction of the Vice-Chancellor, I am pleased to appoint you as paper setter for the subject with details as under.
You are requested to accept the assignment.

Exam: B.E / B.Tech

Course / Branch: ME

Sem: 5

Subject Name: Turbo Machines

Subject Code: 17ME53

No. of sets: 1

To be submitted before: 12-10-2019

INSTRUCTIONS TO PAPER SETTERS (CBCS 2017 SCHEME)

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- Typed manuscript / scheme will not be accepted. Please write down the questions LEGIBLY.
- Use only 'generally accepted' short forms. (It is difficult to decipher 'S.T.' as 'Show that'.)
- Set **TEN** questions, such that **TWO** questions are set from EACH MODULE. Intra-module questions are to be set such that the questions should cover the entire module and further, should be answerable for the set marks. **Each question will carry 20 marks.**
- Questions shall be designed such that the Revised Bloom's Taxonomy (RBT) levels as mentioned in the syllabus are assessed.
- Questions shall **strictly be from the university prescribed books, covering the entire syllabus.** There shall be a **maximum of THREE subdivisions in each question.** Please avoid subdivisions, within subdivisions, for the sake of clarity. Wherever applicable, there shall be a numerical problem in each question.
- Provide neat sketches as these figures are scanned directly from the manuscript for final printing. Sketches should be drawn in black ink only.
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Thanking You,

Yours sincerely,

Registrar (Evaluation)

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6. Remuneration bill.
7. Scheme & solution sheet.

TURBO MACHINES
B.E, VSemester, Mechanical Engineering
[As per Choice Based Credit System (CBCS) scheme]

Course Code	17ME53	CIE Marks	40
Number of Lecture Hours/Week	04	SEE Marks	60
Total Number of Lecture Hours	50(10 Hours per Module)	Exam Hours	03

Credits – 04

Course Objectives:

- The course aims at giving an overview of different types of turbomachinery used for energy transformation, such as pumps, fans, compressors, as well as hydraulic and steam turbines.
- Explain the working principles of turbomachines and apply it to various types of machines
- It will focus on application of turbo machinery in power generation, power absorption and transportation sectors.

Module - 1

Introduction: Definition of turbo machine, parts of turbo machines, Comparison with positive displacement machines, Classification, Dimensionless parameters and their significance, Effect of Reynolds number, Unit and specific quantities, model studies.

(Note: Since dimensional analysis is covered in Fluid Mechanics subject, questions on dimensional analysis may not be given. However, dimensional parameters and model studies may be given more weightage.)

Thermodynamics of fluid flow: Application of first and second law of thermodynamics to turbo machines, Efficiencies of turbo machines, Static and Stagnation states, Incompressible fluids and perfect gases, overall isentropic efficiency, stage efficiency (their comparison) and polytropic efficiency for both compression and expansion processes. Reheat factor for expansion process

Module - 2

Energy exchange in Turbo machines: Euler's turbine equation, Alternate form of Euler's turbine equation, Velocity triangles for different values of degree of reaction, Components of energy transfer, Degree of Reaction, utilization factor, Relation between degree of reaction and Utilization factor, Problems.

General Analysis of Turbo machines: Radial flow compressors and pumps – general analysis, Expression for degree of reaction, velocity triangles, Effect of blade discharge angle on energy transfer and degree of reaction, Effect of blade discharge angle on performance, Theoretical head – capacity relationship, General analysis of axial flow pumps and compressors, degree of reaction, velocity triangles, Problems.

Module - 3

Steam Turbines: Classification, Single stage impulse turbine, condition for maximum blade efficiency, stage efficiency, Need and methods of compounding, Multi-stage impulse turbine, expression for maximum utilization factor.

Reaction turbine – Parsons's turbine, condition for maximum utilization factor, reaction staging. Problems.

Module - 4

Hydraulic Turbines: Classification, various efficiencies. **Pelton turbine –** velocity triangles, design parameters, Maximum efficiency.

Francis turbine - velocity triangles, design parameters, runner shapes for different blade speeds. Draft tubes- Types and functions. **Kaplan and Propeller turbines -** velocity triangles, design parameters. Problems.

Module - 5

Centrifugal Pumps: Classification and parts of centrifugal pump, different heads and efficiencies of centrifugal pump, Minimum speed for starting the flow, Maximum suction lift, Net positive suction head, Cavitation, Need for priming, Pumps in series and parallel. Problems.

Centrifugal Compressors: Stage velocity triangles, slip factor, power input factor, Stage work, Pressure developed, stage efficiency and surging and problems. **Axial flow Compressors:** Expression for pressure ratio developed in a stage, work done factor, efficiencies and stalling. Problems.

Course outcomes:

- Able to give precise definition of turbomachinery
- Identify various types of turbo machinery
- Apply the Euler's equation for turbomachinery to analyse energy transfer in turbomachines
- Understand the principle of operation of pumps, fans, compressors and turbines.
- Perform the preliminary design of turbomachines (pumps, rotary compressors and turbines)
- Analyze the performance of turbo machinery.

TEXT BOOKS:

1. An Introduction to Energy Conversion, Volume III, Turbo machinery, V. Kadambi and Manohar Prasad, New Age International Publishers, reprint 2008.
2. Turbo Machines ,B.U.Pai , 1st Editions, Wiley India Pvt, Ltd.
3. Turbines, Compressors & Fans, S. M. Yahya, Tata McGraw Hill Co. Ltd., 2nd edition, 2002

REFERENCE BOOKS

1. Principals of Turbo machines, D. G. Shepherd, The Macmillan Company (1964).
2. Fluid Mechanics & Thermodynamics of Turbo machines, S. L. Dixon, Elsevier (2005).
3. Text Book of Turbo machines, M. S. Govindgouda and A. M. Nagaraj, M. M. Publications, 4Th Ed, 2008.



Visvesvaraya Technological University

Examination Section
Belgaum - 590 018.

Prof. Satish Annigeri Ph.D.
Registrar (Evaluation)

Phone : (0831)2498136
Fax : (0831)2405464

Ref.No / VTU / Exam/Accts /2017-2018/ 1102

Date : 9 JAN 2017

Circular

Sub: Disbursement of Remuneration and Traveling allowance & others Bills through RTGS-reg

University is disbursing the T.A./D.A./Remuneration etc. to the faculty members for attending the University's works, by way of Demand Drafts/ Cheques. Considering the work involved in the process and on the request of the members, hence forthwith all payments all payments pertaining to the Examination and Others will be **disbursed through RTGS**. Hence faculty members are requested to submit their claim bills along with following documents to enable this office to take further steps in the matter.

- Duly filled & signed claim forms in original, with necessary enclosures, if any,
- Xerox copy of their S.B. A/c cheque leaf of CTS-2010 issued by their banker,
- Xerox copy of their PAN numbers.

REGISTRAR (EVALUATION)

Ph.D. / M.Sc.(Engg.)

Question Paper Pattern (2016-2017 Scheme)

- The question paper will consist of 5 modules, with each module consisting of 2 full questions.
- Each full question will carry 20 marks.
- Each full question can have a maximum of four sub questions covering all topics contained in a module.
- Students must answer 5 full questions, Selecting one full question from each module.


Registrar (Evaluation)



Ref.No/VTU/Exam/2018-19/ 2120

STRICTLY CONFIDENTIAL

Dr. K. Ramanasimha Dept. of Mechanical, Kammavari Sangha-2

Sir / Madam,

Sub : Appointment as paper setter for Jan-Feb / June-July 20.19. Examinations.

By the direction of the Vice-Chancellor, I am pleased to appoint you as paper setter for the subject with details as under. You are requested to accept the assignment.

Exam: Ph.D. / M.Sc.(Research)

Course/Branch:

Sem: Sub: Refrigeration and Air conditioning

Sub Code : 16MTP154 No. of sets: One To be submitted before : 11 NOV 2019

INSTRUCTIONS TO PAPER SETTERS (CBCS 2016/17 SCHEME) Ph.D./M.Sc.(Research)

- Typed manuscript / scheme will not be accepted. Please write down the questions LEGIBLY.
- Use only 'generally accepted' short forms. (It is difficult to decipher 'S.T.' as 'Show that'.)
- Set TEN questions, such that TWO questions are set from EACH MODULE. Intra-module questions are to be set such that the questions should cover the entire module and further, should be answerable for the set marks. Each question will carry 20 marks.
- Questions shall strictly be from the university prescribed books, covering the entire syllabus. There shall be a maximum of THREE subdivisions in each question. Please avoid subdivisions, with in subdivisions, for the sake of clarity. Wherever applicable, there shall be a numerical problem in each question.
- Provide neat sketches as these figures are scanned directly from the manuscript for final printing. Sketches should be drawn in black ink only.
- Explicitly indicate the figure numbers. For example, identify the figure pertaining to Q 2(c) as Fig. Q2 (c) immediately adjacent to it.
- Whenever problems are included, make sure to give all the relevant data from the data handbook, to avoid the issue of handbooks / tables / charts etc..
- However, if special charts, data book are required to be given, please explicitly mention the same, in the 'Instruction to the candidates', at top of the Q.P.
- Scrupulously scrutinize the question paper for its completeness (subject, code, subject title & clarity), missing data / figure / marks allocated / repetition of entire question or part thereof & out of syllabus questions. Read the question paper meticulously and seal it in the appropriate cover enclosed, before sending it to the university.
- Furnish the scheme & solutions, in the enclosed bar code booklet meant for it & seal it in the appropriate cover. Indicate boldly the final answers for all numerical problems.
- A question paper without "Scheme & Solution" is liable for rejection.
- Ensure that the manuscript of the question paper, along with scheme & solution, reaches the undersigned, by Registered post on or before the expiry of the date mentioned above.
- Ensure that you personally destroy the rough draft & other material used to prepare the manuscript. No part of the manuscript or the full version should be retained in any form.
- In case, by any chance, you are unable to accept the assignment, please return all enclosures to the undersigned by return of post, with valid reasons for not accepting it.

Thanking you,

Yours sincerely,

Registrar (Evaluation)

Encls :

1. Copy of the syllabus
3. Manuscript sheets
5. Outer cover for QP manuscript & scheme
7. Remuneration bill

2. Cover for the manuscript
4. Cover for the scheme & solution
6. Scheme & Solution format

P.T.O.



INSTRUCTIONS TO PAPER SETTERS FOR THE PREPARATION OF
SCHEMES AND SOLUTIONS

1. The objective of preparation of scheme and solution is to ensure an uniform valuation among valuers / examinations across different valuation centers.
2. The scheme and solutions should be legibly hand written in black ink, so that it could be xeroxed and distributed.
3. A scheme & solution does not mean the splitting of final marks into its component parts (example 2+2+4+2). It has to clearly show the expected answers / response for each component. (In case the questions are of descriptive nature, the solutions should contain salient / important points of answer)
4. A scheme and solution which merely shows the component marks are liable to be rejected.
5. The extent of solutions should not exceed the enclosed four pages / sheets and should only indicate the expected important points / steps / graphs / drawings / circuits / figures / calculations / tables and final numerical answers, along with the marks allocation for each of these.
6. Please bear in mind that the students have to complete the answers within 3 hrs / 4 hrs and answer five full questions.
7. The allocation of marks shall be an indicator, for the students, for the extent of answers expected.
8. Marks could be allocated for step-wise development of concepts / answers / figures / circuits / graph / flow diagrams / block diagrams, giving due importance or weightage for factors like neatness / exactness / accuracy in numerical values / units / calculations.
9. The figures / drawings and views / circuit diagrams that are part of answers shall also be given in the solution to ensure that the same is being uniformly evaluated by all the examiners.
10. Answers shall not be in the form of references / citations where author's name / title of the book / chapter numbers / page numbers / paragraphs / figures etc. are indicated. You cannot expect the examiners to carry the books to the valuation centre.

REMUNERATION PARTICULARS

Course	Remuneration (Rs.)		Remarks
	Paper Setting	Scheme & Solution	
B.E. / B.Tech. / B.Arch.	500 /-	625 /-	Enclose the bill Separately (Do not enclose the remuneration bill inside the cover / packet that contains the Scheme / Question Paper).
MBA / MCA / M.Tech / M. Arch	750 /-	625 /-	
M.Sc.(Eng.) / Ph.D.	1000 /-	625 /-	

04	16MTP154	Group-3	REFRIGERATION AND AIR CONDITIONING
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Exam Hours:03

Exam Marks:100

Module 1. Refrigeration cycles – analysis: Development of Vapor Compression Refrigeration Cycle from Reverse Carnot Cycle- conditions for high COP-deviations from ideal vapor compression cycle, Multi-pressure Systems, Cascade Systems-Analysis.

Main system components: Compressor- Types , performance , Characteristics of Reciprocating Compressors, Capacity Control, Types of Evaporators & Condensers and their functional aspects, Expansion Devices and their Behaviour with fluctuating load.

Module 2. Refrigerants: Classification of Refrigerants, Refrigerant properties, Oil Compatibility, Environmental Impact-Montreal/ Kyoto protocols-Eco Friendly Refrigerants. Different Types of Refrigeration Tools, Evacuation and Charging Unit, Recovery and Recycling Unit, Vacuum Pumps.

Other refrigeration cycles: Vapor Absorption Systems-Aqua Ammonia & LiBr Systems, Steam Jet Refrigeration Thermo Electric Refrigeration, Air Refrigeration cycles.

Module 3. Psychrometric: Moist Air properties , use of Psychrometric Chart , Various Psychrometric processes , Air Washer , Adiabatic Saturation. Summer and winter air conditioning:

Air conditioning processes-RSHF, summer Air conditioning, Winter Air conditioning, Bypass Factor. Applications with specified ventilation air quantity- Use of ERSHF, Application with low latent heat loads and high latent heat loads.

Module 4. Load estimation & air conditioning control: Solar Radiation-Heat Gain through Glasses, Heat transfer through roofs and walls, Total Cooling Load Estimation. Controls of Temperature, Humidity and Air flow.

Module 5. Air distribution: Flow through Ducts , Static & Dynamic Losses , Air outlets , Duct Design–Equal, Friction Method , Duct Balancing , Indoor Air Quality , Thermal Insulation , Fans & Duct System Characteristics , Fan Arrangement Variable Air Volume systems , Air Handling Units and Fan Coil units.

Question paper pattern:

- The question paper will have ten questions.
- Each full question consists of 20 marks.
- There will be 2 full questions (with a maximum of four sub questions) from each module.
- Each full question will have sub questions covering all the topics under a module.
- The students will have to answer 5 full questions, selecting one full question from each module.

Reference Books:

1. Roy J. Dossat, Principles of Refrigeration, Wiley Limited 2002
2. Arora C.P., Refrigeration and Air-conditioning, 3rd edition, Tata McGraw –Hill, New Delhi 2008
3. Stoecker W.F., and Jones J.W., Refrigeration and Air-conditioning, 2nd edition McGraw - Hill, New Delhi
4. Data Books: Refrigerant and Psychrometric Properties (Tables & Charts) SI Units, Mathur M.L. & Mehta F.S., Jain Brothers. 2010.
5. Principles and Refrigeration- Goshnay W.B., Cambridge, University Press, 1985.
6. Solid state electronic controls for HVACR' -Langley, Billy C., 'Prentice-Hall 1986
7. Refrigeration and Air Conditioning- Arora C.P., Tata McGraw Hill Pub. Company
8. Handbook of Air Conditioning Systems design- Carrier Air Conditioning Co., McGraw Hill,
9. Refrigeration and Air Conditioning (3/e) - Langley Billy C., Engie wood Cliffs (N.J) PHI.
10. Fundamentals and equipment- 4 volumes-ASHRAE Inc. 2005.
11. Air Conditioning Engineering-Jones, Edward Arnold pub. 2001.



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Prof. Satish Annigeri Ph.D.
Registrar (Evaluation)

Phone : (0831)2498136
Fax : (0831)2405464

Ref.No / VTU / Exam/Accts /2017-2018/ //02

Date : 9 JAN 2017

Circular

Sub: Disbursement of Remuneration and Traveling allowance & others Bills through RTGS-reg

University is disbursing the T.A./D.A./Remuneration etc. to the faculty members for attending the University's works, by way of Demand Drafts/ Cheques. Considering the work involved in the process and on the request of the members, hence forthwith all payments all payments pertaining to the Examination and Others will be disbursed through RTGS. Hence faculty members are requested to submit their claim bills along with following documents to enable this office to take further steps in the matter.

- Duly filled & signed claim forms in original, with necessary enclosures, if any,
- Xerox copy of their S.B. A/c cheque leaf of CTS-2010 issued by their banker,
- Xerox copy of their PAN numbers.

Annigeri

REGISTRAR (EVALUATION)



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಲಗಾವಿ. ಕರ್ನಾಟಕ. ಭಾರತ
VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI. KARNATAKA. INDIA



Ref.No/VTU/Exam/2018-2019/ 2078

STRICTLY CONFIDENTIAL

Date : 05-10-2019

MR.NAGARAJ M S, Department of ME, K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE
Sir/Madam,

Sub : Appointment as paper setter for DEC-JAN 2020 EXAMINATIONS.

By the direction of the Vice-Chancellor, I am pleased to appoint you as paper setter for the subject with details as under. **You are requested to accept the assignment.**

Exam: M.Tech/M.C.A/M.Arch

Course / Branch: ME

Sem: 2

Subject Name: Plastic Processing

Subject Code: 18MTE21

No. of sets: 1

To be submitted before: 23-10-2019

INSTRUCTIONS TO PAPER SETTERS (CBCS 2018 SCHEME)

- This appointment is assigned a unique ID represented by the barcode accompanied by the ID in human readable form. The first page of the manuscript cannot be used for a different subject or by a different faculty member. In case you have to use a different first page, write the appointment ID by hand prominently.
- Typed manuscript / scheme will not be accepted. Please write down the questions LEGIBLY.
- Use only 'generally accepted' short forms. (It is difficult to decipher 'S.T.' as 'Show that'.)
- Set **TEN** questions, such that **TWO** questions are set from EACH MODULE. Intra-module questions are to be set such that the questions should cover the entire, module and further, should be answerable for the set marks. **Each question will carry 20 marks.**
- Questions shall **strictly be from the university prescribed books, covering the entire syllabus.** There shall be a **maximum of THREE subdivisions in each question.** Please avoid subdivisions, within subdivisions, for the sake of clarity. Wherever applicable, there shall be a numerical problem in each question.
- Provide neat sketches as these figures are scanned directly from the manuscript for final printing. Sketches should be drawn in black ink only.
- Explicitly indicate the figure numbers. For example, identify the figure pertaining to Q 2(c) as Fig. Q2 (c) immediately adjacent to it.
- **Whenever problems are included, make sure to give all the relevant data from the data handbook, to avoid the issue of handbooks / tables / charts etc..**
- However, if special charts, data book are required to be given, please explicitly mention the same, in the 'Instruction to the candidates', at top of the Q.P.
- Scrupulously scrutinize the question paper for its completeness (subjectcode, subject title & clarity), missing data / figure / marks allocated / repetition of entire question or part thereof & out of syllabus questions. Read the question paper meticulously and seal it in the appropriate barcode cover enclosed, before sending it to the university.
- Furnish the scheme & solutions, in the enclosed sheet meant for it & seal it in the appropriate cover. Indicate boldly the final answers for all numerical problems.
- A question paper **without "Scheme & Solution" is liable for rejection.**
- **Ensure that the manuscript of the question paper, along with scheme & solution, reaches the undersigned, by Registered post on or before the expiry of the date mentioned above.**
- **Ensure that you personally destroy the rough draft & other material used to prepare the manuscript. No part of the manuscript or the full version should be retained in any form.**
- In case, you are unable to accept the assignment, please return all enclosures to the undersigned by return of post, with valid reasons for not accepting it.

Thanking You,

Yours sincerely,

Registrar (Evaluation)

Encls:

1. Copy of the syllabus.
2. Manuscript sheets
3. Inner cover for the manuscript.
4. Outer barcode cover for QP manuscript & scheme.
5. Inner cover for the scheme & solution.
6. Remuneration bill.
7. Scheme & solution sheet.

Dr.K.Ramanarasimha
Principal,
K S School of Engineering and Management (KSSEM)
15/3, Kanakapura Rd, Paramount Gardens, Talaghattapura,
Bengaluru- 560062
Ph:9900633688

131A

Date: 15/10/2019

VTIAL

Sir/Madam

Sub: Appointment of Question Paper Setter for Engineering Exam–December 2019

It is my pleasure to inform that you have been appointed as a question paper setter for Engineering Examinations of **December 2019**, by the directions of the Hon. Vice Chancellor. I request you to set the question paper for the subject as per the details given below:

Semester	1TME52 / 5th Sem
Subject Code	1TME52
Subject Title	AT&HT
Last date for submission: 15 th November 2019	

SL.NO.

DETAILS

- 1 Eight questions are to be set covering entire syllabus. **(Part A - 4 Questions and Part B - 4 Questions)** Please refer to the Syllabus & Model Question Paper enclosed herewith.
- 2 There shall be a maximum of three sub divisions under each question. Numerical problems shall be set wherever possible.
- 3 Each question will carry **14 marks**.
- 4 Provide instruction on issue of handbooks, steam tables, charts etc., wherever absolutely necessary.
- 5 Take care to see that all data required are provided.
- 6 **Furnish the soft copy of the question paper in a CD along with the hard copy of question paper and scheme and solution in the sheets provided.** [Scheme and solution can be hand written hard copy]
Figures can be neatly drawn, scanned and pasted in the question paper.
- 7 The scheme and solution should contain detailed step by step solution along with distribution of marks accounting for the total marks allotted for the question. For questions seeking descriptive answers, the important points to be covered are to be mentioned; mere breakup of marks will not be sufficient.
Question paper without scheme and solution is liable for rejection.
- 8 Set questions such that they demand specific answers.
- 9 Indicate any alternate answer or solution to a problem (if any) in the scheme. Question paper without scheme and solution is liable for rejection.

- 10 Ensure that no hard copy or soft copy of any material relevant to question paper is retained by you.
- 11 Kindly return the declaration form duly signed.
- 12 Prepare and enclose the bill as per the remuneration shown in the following table along with your Bank account details.

Ensure that the question paper along with scheme and solution reaches the undersigned on or before 15th November 2019.

REMUNERATION	
Program	Remuneration (Rs.) Paper Setting, Scheme & Solution
B.Tech	Rs. 900/- plus Rs 50/- for CD charges (Total Rs 950/-)

Postal / Courier charges of Rs. 50/- may be claimed if the manuscript is sent by Post / Courier.

Thank you

With regards



Controller of Examinations

Enclosures:

1. Copy of the syllabus
2. Booklet for Question Paper Manuscript
3. Booklet for Scheme and Solution
4. Remuneration Bill
5. Cover for Manuscript and Scheme and Solution
6. Declaration by Paper Setter
7. Model Question paper

Note: For any further clarification please contact:

Dr. Gopalakrishna K
Deputy Controller of Examinations,
JAIN (Deemed-to-be University)
Bangalore
Mobile Ph. No. 9845730509
E-mail: k.gopalakrishna@jainuniversity.ac.in

Dr. Balaji
Professor and Head,
Dept. of Mechanical Engineering,
K S School of Engineering and Management (KSSEM)
15/3, Kanakapura Rd, Paramount Gardens, Talaghattapura,
Bengaluru- 560062
Ph: 9845496309

132A

Date: 15/10/2019

NTIAL

Sub: Appointment of Question Paper Setter for Engineering Exam–December 2019

It is my pleasure to inform that you have been appointed as a question paper setter for Engineering Examinations of **December** 2019, by the directions of the Hon. Vice Chancellor. I request you to set the question paper for the subject as per the details given below:

Semester	5 th
Subject Code	17ME53
Subject Title	DME-2
Last date for submission: 15 th November 2019.	

SL.NO.

DETAILS

- Eight questions are to be set covering entire syllabus. **(Part A - 4 Questions and Part B - 4 Questions)** Please refer to the Syllabus & Model Question Paper enclosed herewith.
- There shall be a maximum of three sub divisions under each question. Numerical problems shall be set wherever possible.
- Each question will carry **14 marks**.
- Provide instruction on issue of handbooks, steam tables, charts etc., wherever absolutely necessary.
- Take care to see that all data required are provided.
- Furnish the soft copy of the question paper in a CD along with the hard copy of question paper and scheme and solution in the sheets provided.** [Scheme and solution can be hand written hard copy]
Figures can be neatly drawn, scanned and pasted in the question paper.
- The scheme and solution should contain detailed step by step solution along with distribution of marks accounting for the total marks allotted for the question. For questions seeking descriptive answers, the important points to be covered are to be mentioned; mere breakup of marks will not be sufficient.
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- Indicate any alternate answer or solution to a problem (if any) in the scheme. Question paper without scheme and solution is liable for rejection.

10. Ensure that no hard copy or soft copy of any material relevant to question paper is retained by you.
11. Kindly return the declaration form duly signed.
12. Prepare and enclose the bill as per the remuneration shown in the following table along with your Bank account details.

Ensure that the question paper along with scheme and solution reaches the undersigned on or before 15th November 2019.

REMUNERATION	
Program	Remuneration (Rs.) Paper Setting; Scheme & Solution
B.Tech	Rs. 900/- plus Rs 50/- for CD charges (Total Rs 950/-)

Postal / Courier charges of Rs. 50/- may be claimed if the manuscript is sent by Post / Courier.

Thank you

With regards



Controller of Examinations

Enclosures:

1. Copy of the syllabus
2. Booklet for Question Paper Manuscript
3. Booklet for Scheme and Solution
4. Remuneration Bill
5. Cover for Manuscript and Scheme and Solution
6. Declaration by Paper Setter
7. Model Question paper

Note: For any further clarification please contact:

Dr. Gopalakrishna K
Deputy Controller of Examinations,
JAIN (Deemed-to-be University)
Bangalore
Mobile Ph. No. 9845730509
E-mail: k.gopalakrishna@jainuniversity.ac.in

Date: 15/10/2019

Prof. Abhishek M R

137B

AL

Assistant Professor
Department of Mechanical Engineering,
K S School of Engineering and Management (KSSEM)
15/3, Kanakapura Rd, Paramount Gardens, Talaghattapura,
Bengaluru- 560062
Ph: 9731600916
Sir/Madam

Sub: Appointment of Question Paper Setter for the Examination- December 2019

It is my pleasure to inform you that, you have been appointed as a Question paper setter for the B.Tech Examinations of **December 2019** by the directions of the Hon. Vice Chancellor.

I request you to prepare a set of question paper for the subject as per the details given below:

Semester	B
Branch	ME/AU
Subject Code	18ME32/18AV32
Subject Title	Eng. Mechanics
Last date of submission:	15 th November 2019

Sl.
No.

Details

- Eight questions are to be set covering entire syllabus. **(student shall answer 5 full question)**
Q1 and Q2 are compulsory from UNIT 1 and UNIT 2 respectively.
Q3 and Q4 from UNIT 3, Q5 and Q6 from UNIT 4, Q7 and Q8 from UNIT 5.
- There shall be a maximum of three sub divisions under each question. Numerical problems shall be set wherever possible.
- Each question will carry **14 marks**.
- Provide instruction on issue of handbooks, steam tables, charts etc., wherever absolutely necessary.
- Take care to see that all data required are provided.
- Furnish the soft copy of the question paper in a CD along with the hard copy of question paper and scheme and solution in the sheets provided.** [Scheme and solution can be hand written hard copy]
Figures can be neatly drawn, scanned and pasted in the question paper.
- The scheme and solution should contain detailed step by step solution along with distribution of marks accounting for the total marks allotted for the question. For questions seeking descriptive answers, the important points to be covered are to be mentioned; mere breakup of marks will not be sufficient.
Question paper without scheme and solution is liable for rejection.
- Set questions such that they demand specific answers.

- 9 Indicate any alternate answer or solution to a problem (if any) in the scheme.
- 10 Ensure that no hard copy or soft copy of any material relevant to question paper is retained by you.
- 11 Kindly return the declaration form duly signed.
- 12 Prepare and enclose the bill as per the remuneration shown in the following table along with your Bank account details.

Ensure that the question paper along with scheme and solution reaches the undersigned on or before 15th November 2019.

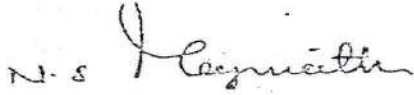
Remuneration

Program	Remuneration (Rs.) Paper Setting, Scheme & Solution
B.Tech	Rs. 900/- plus Rs 50/- for CD charges (Total Rs 950/-)

Postal / Courier charges of Rs. 50/- may be claimed if the manuscript is sent by Post / Courier.

Thanking you

With regards



Controller of Examinations

Encl:

1. Copy of the syllabus
2. Booklet for Question Paper Manuscript
3. Booklet for Scheme and Solution
4. Remuneration Bill
5. Cover for Manuscript and Scheme and Solution
6. Declaration by Paper Setter
7. Model Question paper or previous Exam Question Paper

Note:

For any further clarification please contact:

Dr. Gopalakrishna K
Deputy Controller of Examinations
Jain (Deemed-to-be-University)
Mobile Ph No.: 9845730509
E-mail: k.gopalakrishna@jainuniversity.ac.in

Prof. Abhishek M R **127B**
Assistant Professor, Department of Mechanical Engineering,
K S School of Engineering and Management (KSSEM)
15/3, Kanakapura Rd, Paramount Gardens, Talaghattapura,
Bengaluru- 560062
Ph: 9731600916

Date: 15/10/2019

TIAL

Sir/Madam

Sub: Appointment of Question Paper Setter for Engineering Exam-December 2019

It is my pleasure to inform that you have been appointed as a question paper setter for Engineering Examinations of **December** 2019, by the directions of the Hon. Vice Chancellor. I request you to set the question paper for the subject as per the details given below:

Semester	T
Subject Code	14ME753
Subject Title	Automobile Engineering
Last date for submission: 15 th November 2019	

SL.NO.

DETAILS

- Eight questions are to be set covering entire syllabus. **(Part A - 4 Questions and Part B - 4 Questions)** Please refer to the Syllabus & Model Question Paper enclosed herewith.
- There shall be a maximum of three sub divisions under each question. Numerical problems shall be set wherever possible.
- Each question will carry **14 marks**.
- Provide instruction on issue of handbooks, steam tables, charts etc., wherever absolutely necessary.
- Take care to see that all data required are provided.
- Furnish the soft copy of the question paper in a CD along with the hard copy of question paper and scheme and solution in the sheets provided.** [Scheme and solution can be hand written hard copy]
Figures can be neatly drawn, scanned and pasted in the question paper.
- The scheme and solution should contain detailed step by step solution along with distribution of marks accounting for the total marks allotted for the question. For questions seeking descriptive answers, the important points to be covered are to be mentioned; mere breakup of marks will not be sufficient.
Question paper without scheme and solution is liable for rejection.
- Set questions such that they demand specific answers.
- Indicate any alternate answer or solution to a problem (if any) in the scheme. Question paper without scheme and solution is liable for rejection.

- 10 Ensure that no hard copy or soft copy of any material relevant to question paper is retained by you.
- 11 Kindly return the declaration form duly signed.
- 12 Prepare and enclose the bill as per the remuneration shown in the following table along with your Bank account details.

Ensure that the question paper along with scheme and solution reaches the undersigned on or before 15th November 2019.

REMUNERATION	
Program	Remuneration (Rs.) Paper Setting, Scheme & Solution
B.Tech	Rs. 900/- plus Rs 50/- for CD charges (Total Rs 950/-)

Postal / Courier charges of Rs. 50/- may be claimed if the manuscript is sent by Post / Courier.

Thank you

With regards



Controller of Examinations

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2. Booklet for Question Paper Manuscript
3. Booklet for Scheme and Solution
4. Remuneration Bill
5. Cover for Manuscript and Scheme and Solution
6. Declaration by Paper Setter
7. Model Question paper

Note: For any further clarification please contact:

Dr. Gopalakrishna K
Deputy Controller of Examinations,
JAIN (Deemed-to-be University)
Bangalore
Mobile Ph. No. 9845730509
E-mail: k.gopalakrishna@jainuniversity.ac.in

Prof. Harsha

134B
Assistant Professor, Department of Mechanical Engineering,
K S School of Engineering and Management (KSSEM)
15/3, Kanakapura Rd, Paramount Gardens, Talaghattapura,
Bengaluru- 560062
Ph:

AL

Sub: Appointment of Question Paper Setter for Engineering Exam-December 2019

It is my pleasure to inform that you have been appointed as a question paper setter for Engineering Examinations of **December 2019**, by the directions of the Hon. Vice Chancellor. I request you to set the question paper for the subject as per the details given below:

Semester	EM
Subject Code	17MES
Subject Title	CAD/CAM
Last date for submission: 15 th November 2019	

SL.NO.

DETAILS

- 1 Eight questions are to be set covering entire syllabus. **(Part A - 4 Questions and Part B - 4 Questions)** Please refer to the Syllabus & Model Question Paper enclosed herewith.
- 2 There shall be a maximum of three sub divisions under each question. Numerical problems shall be set wherever possible.
- 3 Each question will carry **14 marks**.
- 4 Provide instruction on issue of handbooks, steam tables, charts etc., wherever absolutely necessary.
- 5 Take care to see that all data required are provided.
- 6 **Furnish the soft copy of the question paper in a CD along with the hard copy of question paper and scheme and solution in the sheets provided.** [Scheme and solution can be hand written hard copy]
Figures can be neatly drawn, scanned and pasted in the question paper.
- 7 The scheme and solution should contain detailed step by step solution along with distribution of marks accounting for the total marks allotted for the question. For questions seeking descriptive answers, the important points to be covered are to be mentioned; mere breakup of marks will not be sufficient.
Question paper without scheme and solution is liable for rejection.
- 8 Set questions such that they demand specific answers.
- 9 Indicate any alternate answer or solution to a problem (if any) in the scheme. Question paper without scheme and solution is liable for rejection.

- 10 Ensure that no hard copy or soft copy of any material relevant to question paper is retained by you.
- 11 Kindly return the declaration form duly signed.
- 12 Prepare and enclose the bill as per the remuneration shown in the following table along with your Bank account details.

Ensure that the question paper along with scheme and solution reaches the undersigned on or before 15th November 2019.

REMUNERATION	
Program	Remuneration (Rs.) Paper Setting, Scheme & Solution
B.Tech	Rs. 900/- plus Rs 50/- for CD charges (Total Rs 950/-)

Postal / Courier charges of Rs. 50/- may be claimed if the manuscript is sent by Post / Courier.

Thank you

With regards



Controller of Examinations

Enclosures:

1. Copy of the syllabus
2. Booklet for Question Paper Manuscript
3. Booklet for Scheme and Solution
4. Remuneration Bill
5. Cover for Manuscript and Scheme and Solution
6. Declaration by Paper Setter
7. Model Question paper

Note: For any further clarification please contact:

Dr. Gopalakrishna K Deputy Controller of Examinations, JAIN (Deemed-to-be University) Bangalore Mobile Ph. No. 9845730509 E-mail: k.gopalakrishna@jainuniversity.ac.in

JU/UG/EXAM/Dec/2019

Date: 15/10/2019

Prof. Harsha**128B****CONFIDENTIAL**

Assistant Professor, Department of Mechanical Engineering,
K S School of Engineering and Management (KSSEM)
15/3, Kanakapura Rd, Paramount Gardens, Talaghattapura,
Bengaluru- 560062

Sir/Madam

Sub: Appointment of Question Paper Setter for Engineering Exam–December 2019

It is my pleasure to inform that you have been appointed as a question paper setter for Engineering Examinations of **December** 2019, by the directions of the Hon. Vice Chancellor. I request you to set the question paper for the subject as per the details given below:

Semester	JU
Subject Code	14ME757
Subject Title	NDT
Last date for submission: 15th November 2019	

SL.NO.**DETAILS**

- Eight questions are to be set covering entire syllabus. **(Part A - 4 Questions and Part B - 4 Questions)** Please refer to the Syllabus & Model Question Paper enclosed herewith.
- There shall be a maximum of three sub divisions under each question. Numerical problems shall be set wherever possible.
- Each question will carry **14 marks**.
- Provide instruction on issue of handbooks, steam tables, charts etc., wherever absolutely necessary.
- Take care to see that all data required are provided.
- Furnish the soft copy of the question paper in a CD along with the hard copy of question paper and scheme and solution in the sheets provided.** [Scheme and solution can be hand written hard copy]
Figures can be neatly drawn, scanned and pasted in the question paper.
- The scheme and solution should contain detailed step by step solution along with distribution of marks accounting for the total marks allotted for the question. For questions seeking descriptive answers, the important points to be covered are to be mentioned; mere breakup of marks will not be sufficient.
Question paper without scheme and solution is liable for rejection.
- Set questions such that they demand specific answers.

- 9 Indicate any alternate answer or solution to a problem (if any) in the scheme. Question paper without scheme and solution is liable for rejection.
- 10 Ensure that no hard copy or soft copy of any material relevant to question paper is retained by you.
- 11 Kindly return the declaration form duly signed.
- 12 Prepare and enclose the bill as per the remuneration shown in the following table along with your Bank account details.

Ensure that the question paper along with scheme and solution reaches the undersigned on or before 15th November 2019.

REMUNERATION	
Program	Remuneration (Rs.) Paper Setting, Scheme & Solution
B.Tech	Rs. 900/- plus Rs 50/- for CD charges (Total Rs 950/-)

Postal / Courier charges of Rs. 50/- may be claimed if the manuscript is sent by Post / Courier.

Thank you

With regards



Controller of Examinations

Enclosures:

1. Copy of the syllabus
2. Booklet for Question Paper Manuscript
3. Booklet for Scheme and Solution
4. Remuneration Bill
5. Cover for Manuscript and Scheme and Solution
6. Declaration by Paper Setter
7. Model Question paper

Note: For any further clarification please contact:

Dr. Gopalakrishna K
Deputy Controller of Examinations,
JAIN (Deemed-to-be University)
Bangalore
Mobile Ph. No. 9845730509
E-mail: k.gopalakrishna@jainuniversity.ac.in

Prof. Vijay Chandan

133A

ENTIAL

Assistant Professor,
Dep.of Mechanical Engineering,
K S School of Engineering and Management (KSSEM)
15/3, Kanakapura Rd, Paramount Gardens, Talaghattapura,
Bengaluru- 560062

Sub: Appointment of Question Paper Setter for Engineering Exam–December 2019

It is my pleasure to inform that you have been appointed as a question paper setter for Engineering Examinations of **December 2019**, by the directions of the Hon. Vice Chancellor. I request you to set the question paper for the subject as per the details given below:

Semester	5 th
Subject Code	MMES4
Subject Title	Control Engineering
Last date for submission: 15 th November 2019	

SL.NO.

DETAILS

- 1 Eight questions are to be set covering entire syllabus. **(Part A - 4 Questions and Part B - 4 Questions)** Please refer to the Syllabus & Model Question Paper enclosed herewith.
- 2 There shall be a maximum of three sub divisions under each question. Numerical problems shall be set wherever possible.
- 3 Each question will carry **14 marks**.
- 4 Provide instruction on issue of handbooks, steam tables, charts etc., wherever absolutely necessary.
- 5 Take care to see that all data required are provided.
- 6 **Furnish the soft copy of the question paper in a CD along with the hard copy of question paper and scheme and solution in the sheets provided.** [Scheme and solution can be hand written hard copy]
Figures can be neatly drawn, scanned and pasted in the question paper.
- 7 The scheme and solution should contain detailed step by step solution along with distribution of marks accounting for the total marks allotted for the question. For questions seeking descriptive answers, the important points to be covered are to be mentioned; mere breakup of marks will not be sufficient.
Question paper without scheme and solution is liable for rejection.
- 8 Set questions such that they demand specific answers.
- 9 Indicate any alternate answer or solution to a problem (if any) in the scheme. Question paper without scheme and solution is liable for rejection.

- 10 Ensure that no hard copy or soft copy of any material relevant to question paper is retained by you.
- 11 Kindly return the declaration form duly signed.
- 12 Prepare and enclose the bill as per the remuneration shown in the following table along with your Bank account details.

Ensure that the question paper along with scheme and solution reaches the undersigned on or before 15th November 2019.

REMUNERATION	
Program	Remuneration (Rs.) Paper Setting, Scheme & Solution
B.Tech	Rs. 900/- plus Rs 50/- for CD charges (Total Rs 950/-)

Postal / Courier charges of Rs. 50/- may be claimed if the manuscript is sent by Post / Courier.

Thank you

With regards

N. S. Gopalakrishna

Controller of Examinations

Enclosures:

1. Copy of the syllabus
2. Booklet for Question Paper Manuscript
3. Booklet for Scheme and Solution
4. Remuneration Bill
5. Cover for Manuscript and Scheme and Solution
6. Declaration by Paper Setter
7. Model Question paper

Note: For any further clarification please contact:

Dr. Gopalakrishna K
Deputy Controller of Examinations,
JAIN (Deemed-to-be University)
Bangalore
Mobile Ph. No. 9845730509
E-mail: k.gopalakrishna@jainuniversity.ac.in

JU/UG/EXAM/Dec/2019

Date: 15/10/2019

Prof. vinod

138A

Assistant Professor
Department of Mechanical Engineering,
K S School of Engineering and Management (KSSEM)
15/3, Kanakapura Rd, Paramount Gardens, Talaghattapura,
Bengaluru- 560062

Sub: Appointment of Question Paper Setter for the Examination- December 2019

It is my pleasure to inform you that, you have been appointed as a Question paper setter for the B.Tech Examinations of **December 2019** by the directions of the Hon. Vice Chancellor.

I request you to prepare a set of question paper for the subject as per the details given below:

Semester	3 rd
Branch	ME/AU
Subject Code	18ME33/18MAE33
Subject Title	Fluid mechanics
Last date of submission: 15 th November 2019	

Sl.
No.

Details

- Eight questions are to be set covering entire syllabus. **(student shall answer 5 full question)**
Q1 and Q2 are compulsory from UNIT 1 and UNIT 2 respectively.
Q3 and Q4 from UNIT 3, Q5 and Q6 from UNIT 4, Q7 and Q8 from UNIT 5.
- There shall be a maximum of three sub divisions under each question. Numerical problems shall be set wherever possible.
- Each question will carry **14 marks**.
- Provide instruction on issue of handbooks, steam tables, charts etc., wherever absolutely necessary.
- Take care to see that all data required are provided.
- Furnish the soft copy of the question paper in a CD along with the hard copy of question paper and scheme and solution in the sheets provided.** [Scheme and solution can be hand written hard copy]
Figures can be neatly drawn, scanned and pasted in the question paper.
- The scheme and solution should contain detailed step by step solution along with distribution of marks accounting for the total marks allotted for the question. For questions seeking descriptive answers, the important points to be covered are to be mentioned; mere breakup of marks will not be sufficient.
Question paper without scheme and solution is liable for rejection.
- Set questions such that they demand specific answers.

- 9 Indicate any alternate answer or solution to a problem (if any) in the scheme.
- 10 Ensure that no hard copy or soft copy of any material relevant to question paper is retained by you.
- 11 Kindly return the declaration form duly signed.
- 12 Prepare and enclose the bill as per the remuneration shown in the following table along with your Bank account details.

Ensure that the question paper along with scheme and solution reaches the undersigned on or before 15th November 2019.

Remuneration

Program	Remuneration (Rs.) Paper Setting, Scheme & Solution
B.Tech	Rs. 900/- plus Rs 50/- for CD charges (Total Rs 950/-)

Postal / Courier charges of Rs. 50/- may be claimed if the manuscript is sent by Post / Courier.

Thanking you

With regards



Controller of Examinations

Encl:

1. Copy of the syllabus
2. Booklet for Question Paper Manuscript
3. Booklet for Scheme and Solution
4. Remuneration Bill
5. Cover for Manuscript and Scheme and Solution
6. Declaration by Paper Setter
7. Model Question paper or previous Exam Question Paper

Note:

For any further clarification please contact:

Dr. Gopalakrishna K Deputy Controller of Examinations Jain (Deemed-to-be-University) Mobile Ph No.: 9845730509 E-mail: k.gopalakrishna@jainuniversity.ac.in



Visvesvaraya Technological University

EXAMINATION SECTION BELAGAVI - 18

Phone: (0831) 2498131

Fax : (0831) 2498184

Ref.No / VTU /RO /Pract

Date:

STRICTLY CONFIDENTIAL

To,

DR. BALAJI B
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU
9845496309

Sir/Madam,

Subject : Appointment as an examiner for Practical Examination

By direction of the Vice-Chancellor, I am to inform you that, you are appointed as an Examiner in the Practical Examination as indicated Below. The Practical Examinations are to be conducted as per the scheme of examination and jointly with the Co-Examiner.

SL.NO	Center	Semester	Subject Code	Subject Name	Time	Date	Batch Number	No. of Candidates	Name of the Co-Examiner
1	K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU	7	15MEL76	Design Lab	08:30 to 11:30, 11:30 to 02:30,	2019-12-03	1,2	10,10	MR. RAVI KEERTHI C GLOBAL ACADEMY OF TECHNOLOGY BENGALURU
2	K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU	7	15MEL76	Design Lab	08:30 to 11:30, 11:30 to 02:30, 02:30 to 05:30,	2019-12-04	3,4,5	10,10,11	MR. RAVI KEERTHI C GLOBAL ACADEMY OF TECHNOLOGY BENGALURU
3	K.S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU	8	10ME85	Project Work	08:30 to 11:30,	2019-12-06	1	1	DR. D V RAVI KUMAR GLOBAL ACADEMY OF TECHNOLOGY BENGALURU

I request you to accept this assignment. In case, you are unable to accept the same, kindly intimate to the Special officer/BOE Co-ordinator of respective regions without fail and well in advance.

BOE:
DR. THIRUMALA SREENIVASAN

Your Faithfully



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಲಗಾವಿ. ಕರ್ನಾಟಕ. ಭಾರತ
VISVESVARAYA TECHNOLOGICAL UNIVERSITY,
BELAGAVI, KARNATAKA, INDIA



Ref.No/VTU/Exam/2018-2019/ 818

STRICTLY CONFIDENTIAL

Date : 12-10-2018

MR.KISHORE M N, Department of MBA, K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE
Sir/Madam,

Sub : Appointment as paper setter for Dec-2018 / Jan-2019 Examinations.

By the direction of the Vice-Chancellor, I am pleased to appoint you as paper setter for the subject with details as under.
You are requested to accept the assignment.

Exam: M.B.A

Course / Branch: MBA

Sem: 3

Subject Name: Recruitment & Selection

Subject Code: 17MBAHR302

No. of sets: 1

To be submitted before: 03-10-2018

INSTRUCTIONS TO PAPER SETTERS (CBCS 2016/17 SCHEME)

- This appointment is assigned a unique ID represented by the barcode accompanied by the ID in human readable form. The first page of the manuscript cannot be used for a different subject or by a different faculty member. In case you have to use a different first page, write the appointment ID by hand prominently.
- Typed manuscript / scheme will not be accepted. Please write down the questions LEGIBLY.
- Use only 'generally accepted' short forms. (It is difficult to decipher 'S.T.' as 'Show that'.)
- Question paper shall cover the entire syllabus and shall consist of part A and Part B as under
 - Part A shall consist of SEVEN questions subdivided into a, b, c, in 2 + 6 + 8 mixed patterns.
 - Part B shall be a compulsory question on case study / Practical Problem for 16 marks. (The question may contain a maximum of 4 sub divisions).
- Questions shall strictly be from the university prescribed books, covering the entire syllabus. There shall be a maximum of three subdivisions in each question. Please avoid subdivisions, within subdivisions, for the sake of clarity. Wherever applicable, there shall be a numerical problem in each question.
- Provide neat sketches as these figures are scanned directly from the manuscript for final printing. Sketches should be drawn in black ink only.
- Explicitly indicate the figure numbers. For example, identify the figure pertaining to Q 2(c) as Fig. Q2 (c) immediately adjacent to it.
- Whenever problems are included, make sure to give all the relevant data from the data handbook, to avoid the issue of handbooks / tables / charts etc..
- However, if special charts, data book are required to be given, please explicitly mention the same, in the ' Instruction to the candidates', at top of the Q.P.
- Scrupulously scrutinize the question paper for its completeness (subject, code, subject title & clarity), missing data / figure / marks allocated / repetition of entire question or part thereof & out of syllabus questions. Read the question paper meticulously and seal it in the appropriate barcode cover enclosed, before sending it to the university.
- Furnish the scheme & solutions, in the enclosed sheets meant for it & seal it in the appropriate cover. Indicate boldly the final answers for all numerical problems.
- A question paper without "Scheme & Solution" is liable for rejection.
- Ensure that the manuscript of the question paper, along with scheme & solution, reaches the undersigned, by Registered post on or before the expiry of the date mentioned above.
- Ensure that you personally destroy the rough draft & other material used to prepare the manuscript. No part of the manuscript or the full version should be retained in any form.
- In case, you are unable to accept the assignment, please return all enclosures to the undersigned by return of post, with valid reasons for not accepting it.

Thanking You,

Yours sincerely,

Registrar (Evaluation)

Encls:

1.Copy of the syllabus.

3.Inner cover for the manuscript.

5.Inner cover for the scheme & solution.

7.Scheme & solution sheet.

2.Manuscript sheets

4.Outer barcode cover for QP manuscript & scheme.

6.Remuneration bill.



DAYANANDA SAGAR COLLEGE OF ENGINEERING

Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru-560078

An Autonomous Institute Affiliated To Visvesvaraya Technological University, Belagavi. Approved by AICTE & ISO 9001-2008 Certified
Accredited by National Assessment and Accreditation Council (NAAC) with 'A' Grade

Dr Kiran S
Controller of Examinations

email : coe-dsce@dayanandasagar.edu
Ph: 080-42117117

DSCE/EXAM/ / 2017-18

Date: 05/04/2018

Strictly Confidential

To

Prof. KISHORE M D

Designation: A.P.

Department of: MBA

College: KSSCEM

Respected Sir/ Madam,

Sub: Appointment as Paper Setter for June 2018 PG Semester End Examination

It is my pleasure to inform you that you are appointed as paper setter for Postgraduate Semester End Examinations of June 2018. I request you to set the paper for the Course whose details are mentioned below and submit the same by **20/May/2018**

Level	Postgraduate
Program	M.Tech/MCA/MBA
Semester	V/IV/VI
Course title	POM
Course code	17MBA26

Guidelines for Paper Setting:

1. Set the Questions as per the scheme provided and confine it to the syllabus.
2. Question paper should cover entire syllabus as per the requirement of Outcome Based Education with 40% of total marks to bloom's cognitive levels 1&2, 40% for bloom's cognitive levels 3&4 and 20% to bloom's cognitive levels 5&6.
3. There shall be a maximum of four sub questions in each question. Kindly indicate the distribution of marks for each subdivision.
4. Kindly prepare the Question paper in MS-Word Format, burn it in the CD provided, take a print out and affix the signature for authentication.
5. If the questions include any sketches kindly draw it with black pen in the print out of the question paper, specify fig no and include it in the question.
6. Indicate the permissible handbooks, charts, data books wherever necessary.
7. Prepare and enclose the bill as per the remuneration shown in the table overleaf. Kindly indicate the Name of Bank, IFSC code and complete Account number for immediate payment of remuneration through RTGS. Confidentiality will be maintained with respect to your bank details.

To:

Dr. Divakara T R
Prof & HOD,
Dept. of Chemistry,
KSSEM,
Bangalore-560109

STRICTLY CONFIDENTIAL

Sir/Madam

Sub: Appointment of Question Paper Setter for Engineering Exam-December 2018

It is my pleasure to inform that you have been appointed as a question paper setter for Engineering Examinations of December 2018, by the directions of the Hon. Vice Chancellor. I request you to set the question paper for the subject as per the details given below:

Semester	I
Branch	ALL BRANCHES
Subject Code	18BSCH03
Subject Title	CHEMISTRY
Last date for submission: 24 th November, 2018	

SL.NO.

DETAILS

- 1 Eight questions are to be set covering entire syllabus.
TOTAL 8 QUESTION (student shall answer 5 full question)
Q1 and Q2 are compulsory from UNIT 1 and UNIT 2 respectively.
Q3 and Q4 from UNIT 3, Q5 and Q6 from UNIT 4, Q7 and Q8 from UNIT 5.
- 2 There shall be a maximum of three sub divisions under each question.
Numerical problems shall be set wherever possible.
- 3 Each question will carry **14 marks**.
- 4 Provide instruction on issue of handbooks, steam tables, charts etc., wherever absolutely necessary.
- 5 Take care to see that all data required are provided.
- 6 **Furnish the soft copy of the question paper on a CD along with the hard copy of question paper, scheme of valuation and solution in the booklet provided.** [Scheme of valuation and solution can be hand written]
- 7 The scheme of valuation and solution should contain detailed step by step solution along with distribution of marks accounting for the total marks allotted for the question. For questions seeking descriptive answers, the important points to be covered are to be mentioned; mere breakup of marks will not be sufficient.
- 8 Set questions such that they demand specific answers.

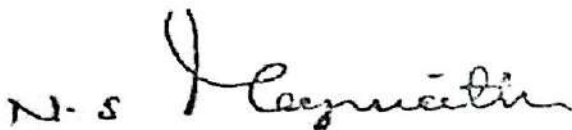
- 9 Indicate any alternate answer or solution to a problem (if any) in the scheme.
Question paper without scheme and solution is liable for rejection.
- 10 Ensure that no hard copy or soft copy of any material relevant to question paper is retained by you.
- 11 Kindly return the declaration form duly signed.
- 12 Prepare and enclose the bill as per the remuneration shown in the following table.
Ensure that the question paper along with scheme and solution reaches the undersigned on or before 12th November 2018.

REMUNERATION	
Program	Remuneration (Rs.) Paper Setting, Scheme & Solution
B.Tech	Rs. 900/- plus Rs 50/- for CD charges (Total Rs 950/-)

Postal / Courier charges of Rs. 50/- may be claimed if the manuscript is sent by Post / Courier.

Thank you

With regards



Controller of Examinations

Enclosures:

1. Copy of the syllabus
2. Booklet for Question Paper Manuscript
3. Booklet for Scheme and Solution
4. Remuneration Bill
5. Cover for Manuscript and Scheme and Solution
6. Declaration by Paper Setter
7. Model Question paper

Note: For any further clarification please contact:

Prof. Gopalakrishna K
Deputy Controller of Examinations,
JAIN(Deemed-to-be University)
Bangalore
Mobile Ph. No. 9845730509/9036952300
E-mail: k.gopalakrishna@jainuniversity.ac.in