Sample Question Papers containing Course Outcomes 2023-24

Meerut Institute of Technology (PC), Meerut

PUT Examination Even Sem. 2023-24

Name of the course: B.Sc. AG 2ND SEM
Name of the subject: crop physiology
Subject code: AG-201
Time Allowed: 3 Hours

Maximum Marks: 50

Section – A (2x5 = 10) (Answer in 25-50 words)
(This section contains 5 questions, each carrying 2 marks. Answer should be brief)

Ques. No.	Question	Course Outcome
1	Define photoperiodism	COI
2	What is transpiration	COI
3	Define Respiratory quotient (RQ)	COI
4	What is guttation	COI
5	What is photorespiration	COI

Section – B (2x5 =10) (Answer in 100-150 words)
(This section contains 3 questions; you are required to attempt any 2 questions each carrying 5 marks)

Ques. No.	Question	Course Outcome
6	Differentiate between pigment system I and Pigment system II	COII
7	Differentiate between C3 and C4 cycle	COII
8	Differentiate between diffusion and osomosis	COII

Section – C (10X3 = 10) (Answer in 200-300 words)
(This section contains 5 questions; you are required to attempt any 3 questions each carrying 10 marks)

Ques. No.	Question	Course Outcome
9	What is phyto hormones? Discuss the physiological role of auxins in plants	COII
10	Explain mechanism of glycolysis	COII
11	What is crop physiology? Discuss the importance of crop physiology in agriculture.	COII
12	Discuss the mechanism of opening and closing of stomata in plants	COII
13	Write a detailed note on electron transport chain	COII

Meerut Institute of Technology (PC), Meerut
PUT Examination odd Sem. 2023-24
Name of the course: B.Sc. Agriculture Semester III
Fundamental of Entomology-II (Insect Ecology & Concepts of IPM)

Time Allowed: 3 Hours

Subject code: AG -312
Maximum Marks: 50

Section – A (2x5 = 10) (Answer in 25-50 words)
(This section contains 5 questions, each carrying two mark. Answer should be brief)

Ques. No.	Question	Course Outcome
1	Define Pest. कीट को परिभाषित कीजिए।	(CO1)
2	Pest forecasting. कीट पीड़कों के पूर्वानुमान के बारे में लिखिए।	(CO2)
3	Write the Insect attractants. कीटों को आकर्षित करने वाले कारकों के बारे में लिखिए.	(CO1)
4	Explain the EIL & ETL. आर्थिक हानि स्तर और आर्थिक सीमा स्तर की व्याख्या किजिए।	(CO3)
5	Explain Insect Antifeedants. कीट अशनरोधी को परिभाषित किजिए।	(CO1)

Section – B (5x2 =10) (Answer in 100-150 words)
(This section contains 3 questions, you are required to attempt any 2 questions each carrying 5 marks)

Ques. No.	Question	Course Outcome
6	What is pest Survey and Surveillance in agriculture crops? खेती में कीटों का सर्वेक्षण, निगरानी क्या है ||	(CO2)
7	Describe in detail the Category of pests. कीटों की श्रेणियों का विस्तार से वर्णन किजिए।	(CO2)
8	Describe in brief the symptoms of poisoning. विषाक्तता के लक्षणों का संक्षेप में वर्णन किजिए।	(CO2)

Section – C (10X3 = 30) (Answer in 200-300 words)
(This section contains 5 questions, you are required to attempt any 3 questions each carrying 10marks)

Ques. No.	Question	Course Outcome
9	Define "IPM" Write in brief in concept of Integrated Pest Management. एकीकृत कीट प्रबन्धन को परिभाषित किजिए व उसकी संकल्पना का वर्णन किजिये।	(CO1)
10	Descibe in detail about the application techniques of spray fluid. स्प्रे द्रव की अनुप्रयोग तकनीको के बारे में विस्तार से वर्णन किजिए।	(CO2)
11	Define insecticide. Classify insecticides on the basis of mode of entry with suitable examples. कीटरसायन को परिभाषित करें तथा कीटनाशियों का वर्गीकरण प्रवेश विधि के आधार पर उदाहरण सहित वर्णन किजिए।	(CO3)
12	Define the term "Insect Ecology" Explain with suitable examples the effect of biotic factors on insects. परिस्थितिकी को परिभाषित करें व कीटों को प्रभावित करने वाले जैविक कारको का विस्तृत वर्णन किजिये।	(CO2)
13	(A)Describe the hormones. हार्मोन्स के बारे में वर्णन किजिए। (B). Describe in detail about the first aid and antidote. प्राथमिक उपचार तथा प्रतिविषस के बारे में विस्तार से वर्णन किजिए।	(CO2)

Name of the course: B.Sc. Agriculture Semester II
Fundamental of Plant Pathology
Time Allowed: 3 Hours

Subject code: AG -206
Maximum Marks: 50

Section – A (2x5 = 10) (Answer in 25-50 words)

(This section contains 5 questions, each carrying two mark. Answer should be brief)

Ques. No.	Question	Course Outcome
1	What is hypertrophy and hyperplasia? हाईपरट्रॉपी और हाईपरप्लेसिया क्या है।	(CO1)
2	Write the systemic position of Albugo Candida. ,लबुगो कोनिडिया की वर्गीकृत स्थान लिखिये।	(CO1
3	What is Facultative parasite and Facultative Saprophyte? ,छिक परजीवी और मृतोपजीवी क्या है।	(CO1)
4	Write the shorts notes on ustilago. स्टीलेगो पर संक्षित टिप्पणी लिखिये।	(CO1)
5	Write the short notes on Dr. E.J. Butler. डा0 ई0 जे0 बटलर पर संक्षित टिप्पणी लिखिये।	(CO1)

Section – B (5x2 =10) (Answer in 100-150 words)

(This section contains 3 questions, you are required to attempt any 2 questions each carrying 5 marks)

Ques. No.	Question	Course Outcome
6	Write the main characteristics and importance of Fungi. कवक के मुख्य लक्षण एवं महत्व लिखिये।	(CO2)
7	Difference between Endemic and Pandemic disease. स्थानीक और लंमदीत बीमारी के अन्तर लिखिये।	(CO3)
8	Difference between Obligate parasite and Obligate saprophyte. वाघ्य परजीवी और सपरोफाइट परजीवी में अन्तर लिखिये।	(CO3)

Section – C (10X3 = 30) (Answer in 200-300 words)

(This section contains 5 questions, you are required to attempt any 3 questions each carrying 10marks)

Ques. No.	Question	Course Outcome
9	What do you mean by plant pathology? Discuss its importance and scope. पादप रोग विज्ञान से आप क्या समझते है इसके क्षेत्र व महत्व का वर्णन किजिए।	(CO2)
10	Describe the life cycle of Albugo with the help of suitable diagrams. एलधीगो के जीवन चर्क का विस्तार से सचित्र वर्णन किजिए।	(CO2)
11	Describe in details Sexual reproduction of fungi. कवक का लैगिक जनन का विस्तार से वर्णन किजिए।	(CO2)
12	Define bacteria. Describe the morphology and method of reproduction of bacteria. बैक्टिरिया को परिभाषित किजिए. बैक्टिरिया की आकृति और प्रजनन की विधि का वर्णन किजिए।	(CO2)
13	What is phanarogamic and write the Cuscuta. फेनरोगेमिक क्या है और क्यासकूटा के बारे में लिखिए।	(CO2)

Section – A (2x5 = 10) (Answer in 25-50 words)

(This section contains 5 questions, each carrying 2 mark. Answer should be brief)

Ques. No.	Question	Course Outcome
1	Sriniketan Project? श्रीनिकेतन परियोजना?	CO1
2	Marthandam Project? मर्थंडम परियोजना?	CO1
3	Nilokheri Project? नीलोखेड़ी परियोजना?	CO1
4	I.R.D.P.? आई. आर. डी. पी. ?	CO1
5	H.Y.V.P.? एच. वाई. वी. पी. ?	CO1

Section – B (5x2 = 10) (Answer in 100-150 words)

(This section contains 3 questions, you are required to attempt any 2 qu. each carrying 5 marks)

Ques. No.	Question	Course Outcome
6	Describe Teaching elements & principles? शिक्षण तत्वों और सिद्धांतों का वर्णन करें?	CO1
7	Describe the activities of Community development in India? भारत में सामुदायिक विकास की गतिविधियों का वर्णन करें?	CO2
8	Jawahar Rojgar Yojana? जवाहर रोजगार योजना का वर्णन करें?	CO1

Section – C (10X3 = 30) (Answer in 200-300 words)

(This section contains 5 questions, you are required to attempt any 3 qu. each carrying 10 marks)

Ques. No.	Question	Course Outcome
9	Give the meaning and definition of Extension Education? Discuss the objectives & philosophy? विस्तार शिक्षा का अर्थ एवं परिभाषा बताइये? उद्देश्यों और दर्शन पर चर्चा करें?	CO1
10	What do you mean by Learning? Discuss the principle & steps of learning? सीखने से आप क्या समझते हैं? सीखने के सिद्धांत और चरणों पर चर्चा करें?	CO1
11	What is community development? Discuss the principle of community development? सामुदायिक विकास क्या है? सामुदायिक विकास के सिद्धांत पर चर्चा करें?	CO1
12	Define Programme planning? Describe its Method/Procedure? कार्यक्रम नियोजन को परिभाषित करें? इसकी विधि/प्रक्रिया का वर्णन करें?	CO2
13	Define Evaluation? Explain its Various types and importance? मूल्यांकन को परिभाषित करें? इसके विभिन्न प्रकार एवं महत्व बताइये?	CO2

Meerut Institute of Technology (PC), Meerut

PUT Examination Even Sem. 2023-24

Name of the course: B.Sc. AG 4ND SEM
Name of the subject: Crop production technology-II (Rabi crops)
Subject code: AG-401
Time Allowed: 3 Hours   **Maximum Marks: 50**

Section – A (2x5 = 10) (Answer in 25-50 words)
(This section contains 5 questions, each carrying 2 marks. Answer should be brief)

Ques. No.	Question	Course Outcome
1	Write the botanical name of Lucerne	COI
2	Write the full form of IGFRI and IIPR	COI
3	Lentil contains………………% protein	COI
4	Frame the crop rotation of 200% and 250%	COI
5	Which type of protein is available in wheat	COI

Section – B (2x5 =10) (Answer in 100-150 words)
(This section contains 3 questions; you are required to attempt any 2 questions each carrying 5 marks)

Ques. No.	Question	Course Outcome
6	What precaution would you take to get the maximum production of potato	COI
7	Give the importance of sunflower	COI
8	Write disease and their control of barley in tabular form	CO2

Section – C (10X3 = 10) (Answer in 200-300 words)
(This section contains 5 questions; you are required to attempt any 3 questions each carrying 10 marks)

Ques. No.	Question	Course Outcome
9	Describe the improved production technology for raising a Mustard crop	COI
10	Describe the package of practices for growing wheat crop	COI
11	Write down the improved package of practices of Berseem crop	COI
12	Describe the improved package of practices of chickpea crop	COI
13	Calculate the quantity of Urea, DAP, Muriate of potash for supplying 120 kg nitrogen,80 kg phosphorus and 60 kg potash per hectare for 2.0-hectare wheat crop	CO3

Name of the course: B.Sc. Ag IV Sem.
Name of the subject: Problematic soil & Their management   Subject code: AG -404
Time Allowed: 3 Hours   Maximum Marks: 50

Section – A (2x5 = 10) (Answer in 25-50 words)
(This section contains 5 questions, each carrying two mark. Answer should be brief)

Ques. No.	Question	Course Outcome
1	Write the characteristics of saline soil. लवणीय मिट्टी की विशेषताएँ लिखिए।	CO1
2	Define Soil erosion मृदा अपरदन को परिभाषित करें	CO1
3	Formula of SAR एस.ए.आर. का सूत्र	CO1
4	Write the two negative impact of soil compaction. मृदा संघनन के दो नकारात्मक प्रभाव लिखिए।	CO1
5	What is the soil Amendments? मृदा संशोधन क्या है?	CO1

Section – B (2x5 =10) (Answer in 100-150 words)
(This section contains 3 questions, you are required to attempt any 2 questions each carrying 5 marks)

Ques. No.	Question	Course Outcome
6	What is the waterlogged soil? Describe the management of waterlogged soil. जलयुक्त मिट्टी क्या है? जलयुक्त मृदा के प्रबंधन का वर्णन करें।	CO1
7	Discuss the various classes of land capability classification with their uses. Why land capability classification is important? भूमि क्षमता वर्गीकरण के विभिन्न वर्गों की उनके उपयोग सहित चर्चा करें। भूमि क्षमता वर्गीकरण क्यों महत्वपूर्ण है?	CO1
8	What is soil erosion? Explain the factors responsible for land degradation and its management. मृदा अपरदन क्या है? भूमि निम्नीकरण के लिए उत्तरदायी कारकों एवं उसके प्रबंधन की व्याख्या करें।	CO1

Section – C (10X3 = 30) (Answer in 200-300 words)
(This section contains 5 questions you are required to attempt any 3 questions each carrying 10 marks)

Ques. No.	Question	Course Outcome
9	Explain reclamation and management of saline and sodic soils. लवणीय एवं क्षारीय मृदाओं के सुधार एवं प्रबंधन को समझाइये	CO1
10	Discuss soil quality and soil health issues मिट्टी की गुणवत्ता और मिट्टी के स्वास्थ्य संबंधी मुद्दों पर चर्चा करें	CO1
11	Write about the distribution of waste and problem soils in India. भारत में अपशिष्ट और समस्याग्रस्त मिट्टी के वितरण के बारे में लिखें	CO1
12	Describe the various criteria of evolution of irrigation water quality. सिंचाई जल की गुणवत्ता के विकास के विभिन्न मानदंडों का वर्णन करें।	vCO1
13	What is the polluted soil? Type and management of polluted soil. प्रदूषित मिट्टी कौन सी है? प्रदूषित मिट्टी का प्रकार एवं प्रबंधन।	CO1

Meerut Institute of Technology (PC), Meerut

PUT Examination Even Sem. 2023-24

Name of the course: B.Sc. AG 4ND SEM
Name of the subject: FUNDAMENTAL OF PLANT BIOTECHNOLOGY
Subject code: AG-405
Time Allowed: 3 Hours   Maximum Marks: 50

Section – A (2x5 = 10) (Answer in 25-50 words)
(This section contains 5 questions, each carrying 2 marks. Answer should be brief)

Ques. No.	Question	Course Outcome
1	What is biotechnology	COI
2	What is DNA markers	COI
3	Explain totipotency	COI
4	What is artificial seeds	COI
5	What is cybrid	COI

Section – B (2x5 =10) (Answer in 100-150 words)
(This section contains 3 questions; you are required to attempt any 2 questions each carrying 5 marks)

Ques. No.	Question	Course Outcome
6	Short note on restriction enzymes	COI
7	Explain gene cloning	COII
8	Write detailed note on importance of transgenic in crop improvement	COI

Section – C (10X3 = 10) (Answer in 200-300 words)
(This section contains 5 questions; you are required to attempt any 3 questions each carrying 10 marks)

Ques. No.	Question	Course Outcome
9	What is PCR? Describe its application in biotechnology	COII
10	Define micropropagation. Discuss the importance of this techniques in crop improvements.	COII
11	Describe the various type of vectors and their role in gene transfer	COII
12	Explain agrobacterium mediated gene transfers	COII
13	Write a process of RNA isolation in plants	COII
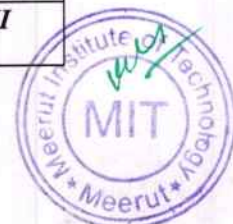
Meerut Institute of Technology (PC), Meerut
PUT Examination Even Sem. 2023-24

Name of the course: B.Sc. Ag IV Sem.
Name of the subject: Introductory Agri- Meteorology & Climate Change
Subject code: AG -409
Time Allowed: 3 Hours   **Maximum Marks: 50**

Section – A (2x5 = 5) (Answer in 25-50 words)
(This section contains 5 questions, each carrying two mark. Answer should be brief)

Ques. No.	Question	Course Outcome
1	Write the full form of W.M.O. W.M.O का पूरा नाम लिखिए।	CO1
2	Define Atmosphere. वायुमंडल को परिभाषित करें	CO1
3	Define Agri- Meteorology. कृषि-मौसम विज्ञान को परिभाषित करें	CO1
4	Rain Gauge. वर्षा मापी यंत्र	CO1
5	Define Humidity. आर्द्रता को परिभाषित करें	CO1

Section – B (2x5 =10) (Answer in 100-150 words)
*(This section contains 3 questions, you are required to attempt any 2 questions each carrying 5 marks)*

Ques. No.	Question	Course Outcome
6	Difference Between Weather and Climate. मौसम और जलवायु के बीच अंतर लिखिये	CO2
7	What is the cloud seeding? क्लाउड सीडिंग क्या है?	CO1
8	Define insolation? Explain the different factors of insolation. सूर्यातप को परिभाषित करें? सूर्यातप के विभिन्न कारकों को समझाइये।	CO1

Section – C (10X3 = 30) (Answer in 200-300 words)
(This section contains 5 questions you are required to attempt any 3 questions each carrying 10 marks)

Ques. No.	Question	Course Outcome
9	Define the winds. Discuss the type of winds and factors of wind velocity. पवनों को परिभाषित करें। पवनों के प्रकार और पवन वेग के कारकों पर चर्चा करें।	CO1
10	Define Atmosphere? Describe the physical structure of atmosphere with diagram. वातावरण को परिभाषित करें? वायुमंडल की भौतिक संरचना का चित्र सहित वर्णन करें।	CO1
11	Enumerate the hydrological cycle with its component. जलीय चक्र क्या है इसके घटकों को सही बताइये।	CO1
12	Define Condensation? Explain the form of condensation. संघनन को परिभाषित करें? संघनन का स्वरूप समझाइये।	CO1
13	What is means by irrigation? Why irrigation is needed in crop production ? सिंचाई से क्या तात्पर्य है? फसल उत्पादन में सिंचाई की आवश्यकता क्यों होती है?	CO1

Meerut Institute of Technology (PC), Meerut
Sessional Examination 2023-24

Name of the course: B.Com 5th sem   Name of the subject: GST   Subject code: C010502
Time Allowed: 2^{1/2} Hours   Maximum Marks: 75

Section – A (3x5 = 15) (Answer in 25-50 words)
(This section contains 5 questions, each carrying 3 marks. Answer should be brief)

Ques. No.	Question	Taxonomy	Course Outcome
1	Explain the term ITC	Understand	CO 1
2	Explain the situation where POS = Location of supply	Understand	CO 1
3	Explain the identifiable voucher	Understand	CO 1
4	Explain rule 27 for valuation of supply	Understand	CO 1
5	Explain debit note	Understand	CO 1

Section – B (7.5x2 = 15) (Answer in 100-150 words)
(This section contains 3 questions with NO internal choice, you are required to attempt any 2 questions each carrying 7.5 marks)

Ques. No.	Question	Taxonomy	Course Outcome
6	Interpret GST & its salient features	Apply	CO 2
7	Interpret the rule to determine POS in following cases i) Goods delivered on Bill to ship model ii) Goods supplied on board conveyance	Apply	CO 2
8	Interpret the audits under GST	Apply	CO 2

Section – C (15X3 = 45) (Answer in 200-300 words)
(This section contains 5 questions with NO internal choice, you are required to attempt any 3 questions each carrying 15 marks)

Ques. No.	Question	Taxonomy	Course Outcome
9	Explain the composition scheme and condition for availing the scheme	Understand	CO 1
10	Explain the cases when ITC will be reversed	Understand	CO 1
11	Explain the manner of utilization of ITC	Understand	CO 1
12	Explain the various types of registrations under GST	Understand	CO 1
13	Explain the outward supply return i.e. GSTR-01	Understand	CO 1

Meerut Institute of Technology (PC), Meerut

Sessional Examination 2023-24

Name of the course: B.Com Ist Semester

Name of the subject: Basic Economics

Subject code: Q10004

Time Allowed: $1^{1/2}$ Hours

Maximum Marks: 25

Note:

i. Each Question Carries 5 marks.
ii. Attempt any 5 questions.
iii. Answer should be limited to 200-300 words.
iv. Use H.B pencil to draw graphs if required.

Ques. No.	Question	Course Outcome
1	Explain the Factors determining the Price Elasticity of Demand	CO1
2	Differentiate between Positive Economics and Normative Economics.	CO1
3	Explain the properties of Indifference Curves.	CO1
4	Explain the cross elasticity of demand with the help of a suitable example	CO1
5	Explain the Law of Diminishing Marginal Utility & its exceptions?	CO1
6	Explain the various degrees of price elasticity of demand	CO1
7	Explain the Managerial uses of Price Elasticity of Demand	CO1
8	Explain the any two Methods to calculate the Price Elasticity of Demand.	CO1

MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

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Sessional Examination Class Test – II : ODD Semester 2023-24

Course/Branch	: B Tech - CS&E, CS&E (DS)	**Semester**	: V
Subject Name	: Object Oriented System Design	**Max. Marks**	: 30
Subject Code	: KCS-054	**Time**	: 01:30 Hrs

Note: Read instructions carefully.

Q.1 : Attempt any **All** questions (Short Answer Type). Each question is of one mark. (8 x 1 = 8 Marks)

Q.No.	Question	Knowledge Level	CO
1.	Discuss in short basic Behavioral modeling.	Remember	CO-2
2.	Define component diagram.	Remember	CO-2
3.	Explain in short object-oriented analysis.	Remember	CO-3
4.	What do you mean by object design.	Remember	CO-3
5.	What are the three models in OMT?	Remember	CO-3
6.	What do you mean by the optimization of design?	Remember	CO-3
7.	Define JSD.	Remember	CO-3
8.	Discuss in short Abstraction.	Remember	CO-3

Q.2 : Attempt any **Three** questions (Medium Answer Type). Each question is of 4 marks. (3 x 4 = 12 Marks)

Q.No.	Question	Knowledge Level	CO
1.	Explain relationship with its different types.	Understand	CO-2
2.	Describe generalization and specialization.	Understand	CO-2
3.	Explain class and object diagrams with examples.	Understand	CO-2
4.	Explain sequence diagrams with example.	Understand	CO-2

Q.3 : Attempt any **Two** questions (Medium Answer Type). Each question is of 5 marks. (2 x 5 = 10 Marks)

Q.No.	Question	Knowledge Level	CO
1.	What is UML? Mention the different kinds of modeling diagrams used.	Remember	CO-2
2.	What do you understand by architectural modeling? Explain its various concepts and diagrams with suitable example.	Understand	CO-2
3.	What is a collaboration diagram? How polymorphism is represented in a collaboration diagram? Explain with an example.	Understand	CO-2

Roll No. : ....

MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

NH-58, Baral Parthapur Bypass, Meerut – 250 005 U.P.

Sessional Examination Class Test – I : ODD Semester 2023-24

Course/Branch	: B Tech - CS&E, CS&E (DS)	Semester	: V
Subject Name	: Object Oriented System Design	Max. Marks	: 30
Subject Code	: KCS-054	Time	: 01:30 Hrs

Note: Read instructions carefully.

Q.1 : Attempt any **All** questions (Short Answer Type). Each question is of one mark.   (8 x 1 = 8 Marks)

Q.No.	Question	Knowledge Level	CO
1.	Define Object identity.	Remember	CO-1
2.	What is generosity?	Remember	CO-1
3.	What are the principles of modeling?	Remember	CO-2
4.	What is an object and class?	Remember	CO-1
5.	What is information hiding?	Remember	CO-1
6.	What do you mean by UML?	Remember	CO-2
7.	Define dynamic modeling.	Remember	CO-2
8.	What is the importance of modeling?	Remember	CO-2

Q.2 : Attempt any **FOUR** questions (Medium Answer Type). Each question is of 3 marks.   (4 x 3 = 12 Marks)

Q.No.	Question	Knowledge Level	CO
1.	Differentiate between procedure programming language and OOP.	Analyze	CO-1
2.	Explain encapsulation with example.	Understand	CO-1
3.	Why UML required? What is the basic architecture of UML?	Understand	CO-2
4.	Describe the elements of object-orientation system.	Understand	CO-1
5.	Differentiate between link and association.	Analyze	CO-2

Q.3 : Attempt any **TWO** questions (Medium Answer Type). Each question is of 5 marks. (2 x 5 = 10 Marks)

Q.No.	Question	Knowledge Level	CO
1.	What is model ? Explain the different types of model.	Understand	CO-2
2.	What is polymorphism? Differentiate between compile time polymorphism and runtime polymorphism.	Analyze	CO-1
3.	Discuss the conceptual Model of UML with the help of an appropriate example.	Understand	CO-2

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT
Second Sessional Examination, Session 2023-24
B.Tech.- V Sem (CSE)
Data Base Management System (KCS- 501)

Max. Marks: 30   **Time:** 01:30 Hrs

Note: Attempt all Sections (All Questions).

Section A
Attempt **ALL** Questions, each question carry **ONE** Mark.   [1*8=8]

Q.No	Question	CO, K
Q No.1	Explain Normalization?	CO3, K2
Q No.2	Discuss Join and Types with suitable example.?	CO2, K2
Q No.3	Explain relational data base management system?	CO2, K2
Q No.4	Define entity integrity, keys constraints?	CO2, K1
Q No.5	Define relational algebra?	CO2, K1
Q No.6	What is Trigger? Explain different trigger with example?	CO2, K2
Q No.7	Describe relational calculus.	CO2, K2
Q No.8	Write difference between BCNF Vs 3NF?	CO3, K2

Section B
Attempt **ALL** Questions each question carry **THREE** Marks.   [3*4=12]

Q.No	Question	CO, K
Q No.1	Write short notes of the Following- i) MVD or JD ii) Normalization with advantages?	CO3, K1
Q No.2	Write difference between Cross join, Natural Join, Left outer join?	CO3, K2
Q No.3	Explain various normal forms in brief?	CO3, K2
Q No.4	Discuss DML and DCL in brief?	CO2, K2

Section C
Attempt **ALL** Questions each question carry **FIVE** Marks.   [5*2=10]

Q. No	Question	CO
Q No.1	What is Aggregate Function in SQL? Write SQL queries for different Aggregate Functions.	CO2, K2
Q No.2	Explain Lossless Decomposition with example.	CO3, K2

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT
First Sessional Examination, Session 2023-24
B.Tech.- V Sem (CSE)
Data Base Management System (KCS- 501)

Max. Marks: 30   **Time:** 01:30 Hrs

Note: Attempt all Sections (All Questions).

Section A

Attempt **ALL** Questions, each question carry **ONE** Mark.   [1*8=8]

Q.No	Question	CO, K
Q No.1	Explain Specialization?	CO1, K2
Q No.2	Write Advantages of Database?	CO1, K1
Q No.3	Explain Logical data Independence?	CO1, K2
Q No.4	Define Super key, Candidate key and Primary Key?	CO1, K1
Q No.5	Define strong and weak entity sets?	CO1, K1
Q No.6	What is Data Independency in DBMS?	CO1, K1
Q No.7	Write the difference between DDL and DML?	CO1, K2
Q No.8	Explain data Independence?	CO1, K2

Section B

Attempt **ALL** Questions each question carry **THREE** Marks.   [3*4=12]

Q.No	Question	CO, K
Q No.1	Discuss the role of database administrator?	CO1, K2
Q No.2	Discuss key and its type of key in brief?	CO1, K2
Q No.3	Explain the various attribute in ER model?	CO1, K2
Q No.4	Discuss database and its advantages?	CO1, K2

Section C

Attempt **ALL** Questions each question carry **FIVE** Marks.   [5*2=10]

Q. No	Question	CO, K
Q No.1	Explain various attributes in ER model?	CO1, K2
Q No.2	Discuss key and its various types?	CO1, K2

Max.Marks: 100 **Time:** 03:00Hrs

Note:AttemptallSections.

SectionA

1. Attempt all questions. 2 x 10 = 20

Q.No	Question	CO, K
a.	What is Data Independency in DBMS?	CO1, K1
b.	Write the difference between DDL and DML?	CO1, K2
c.	What are different Integrity Constraints?	CO2, K1
d.	Explain different Features of SQL?	CO2, K2
e.	What are advantages of normalization?	CO3, K1
f.	Write different Inference Rule for Functional Dependency?	CO3, K1
g.	What is deadlock? How it can be detected and recovered?	CO4, K1
h.	What are various reasons for transaction failure?	CO4, K1
i.	List the various levels of locking?	CO4, K1
j.	What are concurrent transactions?	CO4, K1

Section B

Attempt any three of the following: 3 x 10 = 30

Q.No	Question	CO, K
2.a.	Draw the overall structure of DBMS and explain its various components?	CO1, K2
2.b.	Draw an ER diagram of Hospital or Bank showing Specialization, Aggregation, Generalization. Also convert it into relational schemas and SQL DDL?	CO2, K3
3.a.	Write Short Notes on the Following- i) MVD or JD ii) Normalization with advantages	CO3, K1
3.b.	Which relational algebra operations require the participating tables to be union-compatible? Give reasons in detail.	CO2, K2
4.a.	What is Functional Dependency? Explain the procedure of calculating the Canonical Cover of a given Functional Dependency Set with suitable example.	CO2, K2
4.b	(i) Consider the relation R(a,b,c,d) with Set F={a→c,b→d}. Decompose this relation in 2 NF. (ii) Explain the Lossless Decomposition with example.	CO3, K3 CO3, K2
5.a.	What is a Conflict Serializable Schedule?	CO4, K1
5.b.	Explain Deadlock Handling with Suitable Example?	CO4, K2
6.a.	List ACID properties of transaction. Explain the usefulness of each. What is the importance of log?	CO4, K2
6.b.	Explain any one Concurrency Control technique.	CO4, K2

Section C

7. Attempt any one part of the following: 1 x 10 = 10

Q.No	Question	CO, K
a.	(a) Consider the following schema for institute library: Student (RollNo, Name, Father_ Name, Branch) Book (ISBN, Title, Author, Publisher) Issue (RollNo, ISBN, Date-of –Issue) Write the following queries in SQL and relational algebra: I. List roll number and name of all students of the branch 'CSE'. II. Find the name of student who has issued a book published by 'ABC' publisher. III. List title of all books and their authors issued to a student 'RAM'. IV. List title of all books issued on or before December 1, 2020. V. List all books published by publisher 'ABC'.	CO2, K3
b.	Define Key and Its types?	CO2, K1

8. Attempt any one part of the following: 1 x 10 = 10

Q.NO	Question	CO, K
a.	What is Aggregate Function in SQL? Write SQL queries for different Aggregate Functions.	CO2, K2
b.	Explain Procedure in SQL/PL SQL.	CO2, K2

9. Attempt any one part of the following: 1 x 10 = 10

Q.NO	Question	CO, K
a.	What is Functional Dependency? Explain the procedure of calculating the Canonical Cover of a given Functional Dependency Set with suitable example.	CO3, K2
b.	Explain the Lossless Decomposition with example.	CO3, K2

10. Attempt any one part of the following: 1 x 10 = 10

Q.NO	Question	CO, K
a.	Describe serializable schedule. Discuss conflict serializability with suitable example.	CO4, K2
b.	Discuss the procedure of deadlock detection and recovery in transaction?	CO4, K2

11. Attempt any one part of the following: 1 x 10 = 10

Q.NO	Question	CO, K
a.	What is Two phase Locking (2PL)? Describe with the help of an example.	CO4, K2
b.	Explain Recovery in the context of Concurrent Transactions.	CO4, K2

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT (College Code : 292)
Second Sessional Examination, Session 2023-24
B.Tech.-4ᵗʰ, Sem (DS,ME& EC)
MATHEMATICS – IV BAS 403

Max. Marks: 20   Time: 01;30Hrs.

Note: Attempt all Sections.

Section A

Attempt ALL Questions, each question carry ONE Mark.   [1*5=5]

Q.No	Question	CO
Q No.1	Write Equation of One Dimensional Heat Equation.	CO 2
Q No.2	Classify the following partial differential equations $z_{xx} + z_{yy} = 0$	CO 2
Q No.3	Classify the following partial differential equations $z_{xx} = z_{yy}$	CO 2
Q No.4	If Mean=24, Median=28 Find Mode.	CO 3
Q No.5	Write the relations between μ_r and $\mu_r{}'$	CO 3

Section B

Attempt any ALL Questions, each question carry 2.5 Mark.   [2.5*4=10]

Q.No	Question	CO
Q No.1	Use method of separation of variables to solve the equation $\frac{\partial z}{\partial x} = 2\frac{\partial z}{\partial t} + z$ given that $z(x, 0) = 6e^{-5x}$.	CO 2
Q No.2	Use method of separation of variables to solve the equation $4\frac{\partial u}{\partial t} + \frac{\partial u}{\partial x} = 3u$ given that $u(x,0) = 3e^{-x} - e^{-5x}$	CO 2

Q No.3   . Find measure of skewness and kurtosis for following data — CO 3

Marks	5-15	15-25	25-35	35-45	45-55
No of students	1	3	5	7	4

Q No.4   Find the first four moments for the following individual series . — CO 3

x	1	3	9	12	20

Section C

Attempt anyone Questions each question carry equal Marks.   [5*1= 5]

Q.No	Question	CO
Q No.1	Find the Solution of One Dimensional Wave Equation.	CO 2
Q No.2	Use the least square method to fit the curve of the form $y=ab^x$ to the following data.	CO 3

x	2	3	4	5	6
y	144	172.3	207.4	248.8	298.5

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT
Second Sessional Examination, Session 2023-24
B.Tech.- IV Sem (ME)
Applied Thermodynamics (BME- 401)

Max. Marks: 20   **Time: 01:30 Hrs**

Note: Attempt all Sections (All Questions).

Section A

Attempt ALL Questions, each question carry ONE Mark.   [1*5=5]

Q.No	Question	CO
Q No.1	Define air rate and work ratio in gas turbine.	CO1
Q No.2	What is the function of nozzles used with steam turbine?	CO1
Q No.3	What do you mean by regeneration?	CO1
Q No.4	What do you mean by critical pressure ratio of nozzle?	CO1
Q No.5	Why convergent- divergent nozzle is mostly used in steam power plant?	CO1

Section B

Attempt ALL Questions each question carry 2.5 Marks.   [2.5*4=10]

Q.No	Question	CO
Q No.1	With the help of neat sketch, describe the working of a simple constant pressure Open cycle gas turbine, in brief.	CO2
Q No.2	What are the different types of nozzles? Explain briefly	CO1
Q No.3	Explain the working of turbo jet engines with neat sketch.	CO2
Q No.4	Describe gas turbine cycle with reheat and regeneration.	CO1

Section C

Attempt Any One Question. Each question carry equal Marks.   [5*1=5]

Q. No	Question	CO
Q No.1	A gas turbine plants consists of two stage compressor with perfect intercooler and a single stage turbine. If the plants work between the temperatures limits 300 K and 1000 K and 1 bar and 16 bar. Find the net power of the plant per kg of air. Take specific heat at constant pressure 1 kJ/kgK.	CO2
Q No.2	Derive the expression for maximum discharge through convergent divergent nozzle for steam.	CO2

Time: 01:30 Hrs

Max. Marks: 20

Note: Attempt all Sections.

Section A

[1*5=5]

Attempt ALL Questions, each question carry ONE Mark.

Q.No	Question	CO
		1
Q No.1	What is difference between truss and beam?	1
Q No.2	What is unstable trusses?	1
Q No.3	How many types of loads in beam?	5
Q No.4	What is formula of cylindrical volumetric strain?	5
Q No.5	What is formula of spherical volumetric strain?	

Section B

[2.5*4=10]

Attempt ALL Questions, each question carry 2.5 Marks.

Q.No	Question	CO
		1
Q No.1	What is Classification of trusses? And neat sketch figure classification trusses.	1
Q No.2	Write the Relationship between Load, shear force, and bending moment.	1
Q No.3	For the truss as shown in figure2.1., the force F_1 & F_2 are 9 KN & 3 KN, respectively, theforce (in KN) in the members QS is (all dimensions are in 'm').	
Q No.4	A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under pressure until the volume is increased by $400 \times 10^3 \ mm^3$. Find the pressure exerted by water on the shell. Take E=204 GPa and $\mu = 0.3$.	5

Section C

[5*1=5]

Attempt any one Question, each question carry equal Marks.

Q.No	Question	CO
Q No.1	Determine the forces in all the members of the cantilever truss as shown in figure 2.2	1
Q No.2	Compare the maximum tensile stresses of a thin cylinder to that of a thin spherical shell having the same internal pressure and the d/t ration where d & t are the internal diameter and the thickness respectively. Also find the ratio of their proportional increases in volumes. Take poisons ratio as 0.3	5
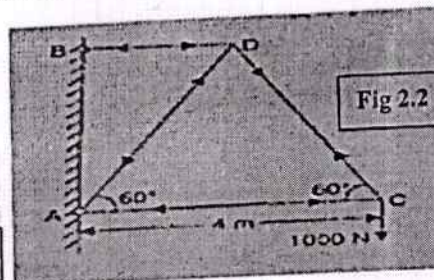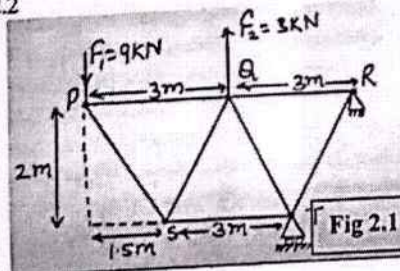
292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

2nd Sessional Examination, Session 2023-24

B.Tech.-IV Sem (ME)

Manufacturing Processes (BME– 403)

Time: 01:30 Hrs

Max. Marks: 20

Note: Attempt all Sections (All Questions).

Section A

[1*5=5]

Attempt ALL Questions, each question carry ONE Mark.

Q.No	Question	CO
		2
Q No.1	What are the advantaged of CNC over NC machines?	3
Q No.2	Name the elements which are considered in the construction of a grinding wheel.	3
Q No.3	Define Grinding Wheel.	3
Q No.4	What is meant by hardness of grinding wheel?	3
Q No.5	Define bond in connection with grinding wheel.	

Section B

[2.5*4=10]

Attempt ALL Questions each question carry 2.5 Marks.

Q.No	Question	CO
		2
Q No.1	What do you understand by single point cutting tool? Briefly explain its various angles.	2
Q No.2	Discuss the various types of chips produced during metal machining with neat sketch.	2
Q No.3	Write down the advantages, limitations and applications of rapid prototyping.	2
Q No.4	Explain up milling and down milling with a neat sketch.	

Section C

[5*1=5]

Attempt Any One Questions each question carry equal Marks.

Q. No	Question	CO
		2
Q No.1	Consider the various forces acting on the chip, draw Merchant force diagram.	
Q No.2	What is meant by grit, grade and structure of grinding wheel. OR Explain different types of bonds and abrasives used in a grinding wheel?	3

EVALUATED ANSWER SHEET WILL BE SHOWN ON 13TH JUNE, 2024

ROLL NO.:

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT
Second Sessional Examination, (Session 2023-24)
B.Tech.- 4th Sem (DATA SCIENCE/ME/EC/CE)
PYTHON PROGRAMMING (BCC- 402)

Time: 01:30 Hrs.

Max. Marks: 20

Note:
- Attempt all Sections.
- Don't write story, Answer should be precise and to the point.

Section A

[1*5=5]

Attempt ALL Questions, each question carries ONE Marks.

Q. No.	Question	CO
		CO-2
Q No.1	Explain iterative statement and write their syntax	CO-2
Q No.2	Define conditional statement and write their syntax.	CO-2
Q No.3	Define transfer statement and write their syntax.	CO-2
Q No.4	Else block or else statement is always optional. (True/False)	CO-1
Q No.5	Write a python program to check whether the given number is odd or even?	CO-3

Section B

[2.5*4=10]

Attempt ALL Questions each question carries 2.5 Marks.

Q. No.	Question	CO
Q No.1	Write a python program to print maximum and minimum number among the given three number.	CO-3
Q No.2	Write a python program to check whether the given number is perfect square or not. (perfect square is an integer that is the square of an integer; in other words, it is the product of some integer with itself)	CO-3
Q No.3	Write a python program to check whether the given number is palindrome or not.	CO-3
Q No.4	Create a python program to print Fibonacci series.	CO-3

Section C

[5*1=5]

Attempt ANY ONE Questions each question carry EQUAL Marks.

Q. No.	Question	CO
Q No.1	a) Write a python program to check whether the given number is prime or not. b) Write a python program to check whether the given number is Armstrong or not.	CO-3

Q No.2	Write a python program to print the following pattern
	
	1) A A A A A
	   A A A A
	   A A A
	   A A
	   A
	
	2) A B C D E
	   F G H I
	   J K L
	   M N
	   O
	
	3) 1 1 1 1 1
	   2 2 2 2
	   3 3 3
	   4 4
	   5
		CO-3

******BEST OF LUCK******

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT (College Code : 292)
Second Sessional Examination, Session 2023-24
B.Tech.-4ᵗʰ, Sem (CSE)DS+ME+ECE+CE)
Universal Human Values (BVE- 401)

Max. Marks: 20   Time: 01:30Hrs.

Note: Attempt all Sections.

Section A

Attempt ALL Questions, each question carry ONE Mark.   [1*5=5]

Q.No	Question	CO
		CO1
Q No.1	Describe Human needs.	CO1
Q No.2	Enumerate Safety needs.	CO1
Q No.3	What is self-actualization.	CO1
Q No.4	State the importance of co- existence for self and body.	CO1
Q No.5	Explain the importance of studying about yourself.	

Section B

Attempt ALL Questions, each question carry 2.5Mark.   [2.5*4=10]

Q.No	Question	CO
		CO5
Q No.1	In detail explain 'Sanyama'.	CO4
Q No.2	Talk about the aspects of 'Sanyama'.	CO5
Q No.3	Explain 'Swasthya' in detail.	CO4
Q No.4	What are the obstacles in the path of self-control.	

Section C

Attempt any **one** Question each question carry equal Marks.   [5*1= 5]

Q.No	Question	CO
		CO5
Q No.1	Write about Trust and its importance for harmony in relationship.	
		CO5
Q No.2	Write about the feeling of respect and its importance.	

BEST OF LUCK

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT
Pre University Examination, Session 2023-24
B.Tech.- IV Sem (ME)
Applied Thermodynamics (BME- 401)

Max. Marks: 70   Time: 3 Hrs

Section A

1. Attempt *all* questions in brief.   [2*7=14]

Q.No.	Question	CO
a.	What do you mean by F/A ratio.	CO1
b.	Define degree of reaction.	CO1
c.	What do you mean by effectiveness of regenerator?	CO1
d.	Differentiate between gas turbine and I.C. engine.	CO1
e.	Write the expression for polytropic efficiency.	CO1
f.	What is impulse turbine?	CO1
g.	What do you mean by draught?	CO1

Section B

2   Attempt any *three* of the following: [7*3=21]

Q.No.	Question	CO
a.	What do you understand by compounding of steam turbines? Describe different typesof compounding of steam turbines with appropriate diagram.	CO2
b.	Distinguish between Fire tube & Water tube boiler.	CO1
c.	With the help of neat sketch, describe the working of a simple constant pressure open cycle gas turbine, in brief.	CO1
d.	Derive the expressions for velocity of steam and discharge through steam nozzle.	CO1
e.	Derive an expressions of efficiencies of Brayton cycle with suitable assumptions.	CO1

Section C

3. Attempt any *one* part of the following: [7*1=7]

Q.No.	Question	CO
a.	Discuss the classification of boiler.	CO1
b.	Steam is the working fluid in an ideal Rankine cycle. Saturated vapor enters the turbine at 8.0 MPa and saturated liquid exits the condenser at a pressure of 0.008 MPa. The net power outputof the cycle is 100 MW. Determine for the cycle (i) the thermal efficiency, (ii) the back work ratio, (iii) the mass flow rate of the steam, in kg/h	CO2

4. Attempt any *one* part of the following: [7*1=7]

Subject & Code : MATH-IV (BAS- 403)
Course/Branch : B.Tech – DS/ECE/ME   Semester: IV
Subject Name : Engg. Mathematics IV   Max. Marks : 70

Section – A # 14 Marks

Attempt ALL the questions.

Question (7 x 2=14 Marks)

Q. No.1		CO/x	Question
(a)	CO1	CO/x	Solve $(D^4 \pm D^4)z = 0$.
(b)	CO1		Determine the partial Differential Equation from the equation $z = f(2x-y)$
(c)	CO2		Classify the following partial differential equations $z_{xx} - z_{yy} = 0$
(d)	CO3		Write the normal equations of multiple linear regression of Y on Z and X
(e)	CO4		Define t-test with formula.
(f)	CO5		Define null Hypothesis
(g)	CO5		Define control limits of R-chart

Section – B # 21 Marks

Attempt Any Three questions.   (7x 3 =21 Marks)

Q.1(CO1) Solve the following partial differential equation by using Charplt's method:
$z^2 = pqxy$ where $= \frac{p_z}{\partial x}$, $q = \frac{p_z}{\partial y}$

Q.2(CO2) Solve the One Dimensional wave equation by method of separation of variable.

Q.3 (CO3) The first four moments of a distribution about $x = 2$ are 1, 2.5, 5.5 and 16. Calculate the first four moments about mean and origin.

Q.4 (CO4) The probability that a bulb produced by a factory will fuse after a use of 150 days is 0.5. Find the probability that out of 5 such bulbs (i) none (ii) not more than one (iii) more than one (iv) at least one will fuse after 150 days of use.

Q5 (CO5) following is the data of defectives of 10 samples of size 100 each.

Samples	1	2	3	4	5	6	7	8	9	10
No. of defectives	25	20	19	21	24	16	15	20	18	22

Construct p- chart and state whether the process is in statistical control

Section – C # 50 Marks

Attempt ALL the questions.   (7x 5 = 35 Marks)

Q.6 (CO-1): Attempt anyONE question.

(a). Solve $(x^2-yz)p + (y^2-zx)q = z^2-xy$

(b). Solve $r +s -2t = (2x+y)^{1/2}$

Q.7 (CO-2): Attempt anyONE question.

(a). A tightly stretched string with fixed end points $x = 0$ and $x = L$ is initially in position given by $u = \sin\left(\frac{2\pi x}{L}\right)$ if it is release from rest from the position, find the displacement $u(x, t)$.

(b). Solve the Laplace equation $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = 0$ in a rectangle in the xy- plane with $u(x,0) = 0$, $u(x,b) = 0$, $u(0,y) = 0$ and $u(a,y) = g(y)$ parallel to y-axis

Q.8 (CO-3): Attempt any ONE question.

(a). Calculate the coefficient of correlation between the marks obtained by 8 students in Mathematics and Statistics.

Students	A	B	C	D	E	F	G	H
Mathematics	25	30	32	35	37	40	42	45
Statistics	08	10	15	17	20	23	24	25

(b). Use the least square method to fit the curve of the form $y=ab^x$ to the following data.

x	2	3	4	5	6
y	144	172.3	207.4	248.8	298.5

Q.9 (CO-4): Attempt any ONE question.

(a). The number of accidents in a year involving taxi drivers in a city follows a Poisson distribution with mean equal to 3. Out of 1000 taxi drivers, find approximately the number of drivers with
(i) no accidents   (ii) more than 3 accidents in a year.

(b). In a sample of 1000 cases, the mean of a certain test is 14 and S.D is $\frac{5}{2}$. Assuming the distribution to be normal, find
(i) How many students score between 12 and 15?
(ii) How many score above 18?
(iii) How many score below 8?
Given $f(0.8) = 0.2881, f(0.4) = 0.1554, f(1.6) = 0.4452, f(2.4) = 0.4918$.

Q.10 (CO-5): Attempt any ONE question.

(a). From the following table regarding the color of eyes of father and son, test if the color of son's eye is associated with that of father.

Eye color of father	Eye color of son		
		Light	Not Light
Light		471	51
Not Light		148	230

[Given $\chi^2_{0.05} (1) = 3.841$

(b). Distinguish between np-chart and C-chart. Following is the data of defectives of10 samples of size 100 each. Construct np-chart and examine whether the process is in statistical control.

Sample No.	1	2	3	4	5	6	7	8	9	10
No. of defectives	6	9	12	5	12	8	8	16	13	7

All the best

PUT ~~Exam~~ BTECH
(SEM IV) THEORY EXAMINATION 2023-24
ENGINEERING MECHANICS

Time: 3 Hours   **Total Marks: 70**

Note: Attempt all Sections. If you require any missing data, then choose suitably.

SECTION A

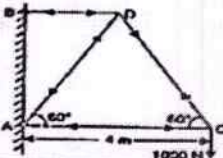1. Attempt *seven* questions in brief.   2x7 = 14

No	Questions	CO
(a)	State the principle of transmissibility of force.	1
(b)	What is a free body diagram?	1
(c)	List the assumptions used in the analysis of a truss.	1
(d)	Explain the following terms. (i) Coefficient of friction. (ii) Angle of repose.	1
(e)	Define Normal and Shear stress.	2
(f)	what is strain energy?	2
(g)	what is assumption in the simple theory bending.	3
(h)	Define section modulus & Moment of Resistance?	4
(i)	What is buckling load /critical load / crippling load?	4
(j)	Explain the circumferential stress.	5

SECTION B

2. Attempt any *three* of the following: 7x3 = 30

Q no	Question	CO
(a)	Determine the forces in all the members of the cantilever truss as shown in	1
(b)	At a point in a strained material the principal stresses are 100 MPa (tensile) and 60 MPa (compressive). Determine the normal stress, shear stress and resultant stress on a plane inclined at 50° to the axis of major principal stress. Also determine the maximum shear stress at a point.	2
(c)	Write the assumptions for pure bending and also derive the equation for bending.	3
(d)	A closely coiled helical spring is made of 12.5 mm diameter steel wire and its 10 coils have a mean diameter of 250 mm. Find the elongation, intensity of torsional and total shearing stresses and strain energy per cubic cm when the spring carries an axial load of 180 N, (G = 80 GPa).	4
(e)	A cylindrical pipe of diameter 1.5 m and thickness 1.5 cm is subjected to an internal fluid pressure of 1.2 N/mm2 . Determine: a. Longitudinal stress developed in the pipe, and b. Circumferential stress developed in the pipe.	5

SECTION C

3. Attempt any *one* part of the following: 7x1 = 7

Qno	Questions	CO
(a)	write the relation between load, Shear force and bending moment.	1
(b)	A string ABCDE whose extremity A is fixed has weights W1 and W2 attached to it at B and C, and passes round a smooth peg at D carrying a weight of 800 N at the free end E as shown in below figure. If in a state of equilibrium, BC is horizontal and AB and CD makes angle of 150° and 120° respectively with BC, make calculations for: (i) The tensions in portions AB, BC, CD and DE of the string. (ii) The values of weights W1 and W2.	1

4. **Attempt any *one* part of the following:** 7x1 = 7

Qno	Questions	CO
(a)	Derive the expression for strain energy stored in a body when the load is applied gradually. Also write the expression for sudden load applied.	2
(b)	A rectangular block of material is subjected to a tensile stress of 110 MPa on one plane and a tensile stress of 47 MPa at right angles to the former. Each of the above stresses is accompanied by a shear stress of 63 MPa and that associated with the former tensile stress tends to rotate the block anticlockwise.Find: i. The direction and magnitude of each of the principal stress. ii. Magnitude of greatest shear stress	2

5. **Attempt any *one* part of the following:** 7x1 = 7

Qno	Questions	CO
(a)	Derive the pure torsion equation where symbols has usual meaning $$\frac{T}{J} = \frac{\tau}{R} = \frac{G\theta}{L}$$	3
(b)	A solid shaft of 200 mm diameter has the same cross-sectional area as the hollow shaft of the same material with inside diameter of 150 mm. Find the ratio of 1. Powers transmitted by both the shafts at the same angular velocity. 2. Angles of twists in equal length of these shafts, when stressed to same intensity.	3

6. **Attempt any *one* part of the following:** 7x1 = 7

Qno	Questions	CO
(a)	Derive a relation for the Euler's crippling load for a column when it has bothend hinged	4
(b)	A close coil helical spring of round steel wire 10 mm in diameter and 10 complete turns with a mean diameter of 120 mm and subjected to an axial load of 200 N. Determine (a) deflection of the spring (b) stiffness of the spring (c) maximum shear stress and (d) strain energy stored in spring.	4

7. **Attempt any *one* part of the following:** 7x1 = 7

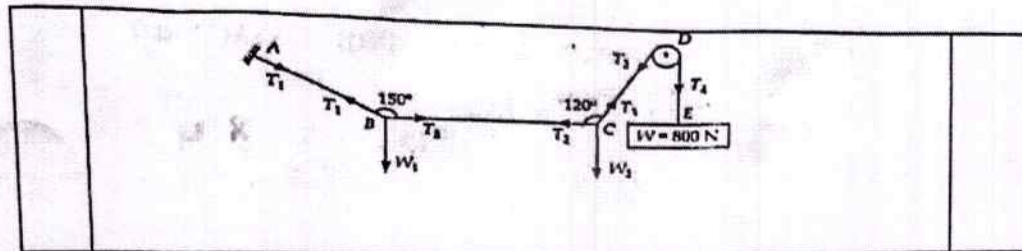| Qno	Questions	CO
(a)	Derive the expression for circumferential stress and longitudinal stress for athin shell subjected to an internal pressure.	5
(b)	A cylindrical pipe of diameter 1.5 m and thickness 1.5 cm is subjected to an internal fluid pressure of 1.2 N/mm2 . Determine: a. Longitudinal stress developed in the pipe, and b. Circumferential stress developed in the pipe.	5

Subject : Python programming (BCC 402)   **Course : B. Tech – DS/EC/CE/ME (4ᵗʰ Sem)**
MM : 70   **Duration: 3:00 Hrs.**

Q.1.

Section - A

S.No.	Questions	COs	MM
a.	Write two application of python programming.	1	1
b.	What is the role of type() function in python.	1	1
c.	Why python is known as dynamically typed programming language.	1	1
d.	Write the difference between readline and readlines()	1	1
e.	Write the syntax of list slicing.	3	1
f.	Explain role of seek() and tell() methods.	2	1
g.	Define floor division.	2	1
h.	What is difference between local variable and global variable?	1	1
i.	What is membership operator in python?	2	1
j.	Explain why python is interpreted language and list at least two interpreted Programming language?	2	1
k.	What is role of pass statement in python?	2	1
l.	Write the argument of write and writelines function function.	2	1
m.	What are widgets in GUI?	2	1
n.	Write a python program to count the number of consonants in the given string.	1	1

Section - B

S.No.	Questions	COs	MM
2.a	Write a python program that accepts sequence of lines as input and prints the lines after making all character in the sentences capitalized.	2	3.5
2.b.	Write a python function, alternating(lst), that takes as argument a sequence of list. The function returns True if the elements in list are alternatively odd and even, starting with an even number, Otherwise it return False.	4	3.5
3.a.	Discuss various categories of operator in python with example.	2	3.5
3.b.	Discuss different types of argument passing methods in python.	3	3.5
4.a.	Write a python program to check whether the given number is prime or not.	3	3.5
4.b.	There is a file named Input.txt. Enter some positive number into the file named Input.txt. read the content of the file and if it is and ODD numbers write it to the ODD.txt and if number is even, write it to EVEN.txt.	2	3.5

Section - C

S.No.	Questions	COs	MM
5.	Explain the working of for loop and while loop with the help of example. Or Explain conditional statement with example.1) if, 2) if else 3) if elif else, 4) nested if else	3	7
6.	Write the properties and built-in function of string (at least 5). Write a program to checkwhether the given string is palindrome or not. Or Write a program factors(N) that return a list of all positive divisors of N (N>=1).	4	7
7.	Compare the various properties of list, tuple and dictionary with proper example. Or Write the various in-built function of NumPy, Pandas and matplotlib.	2	7
8.	Write a python function removekth(s,k) that takes as a input string s and an integer k>=0 and remove the character at index k. If index k is beyond the length of s, the whole s is returned. Or Write a python program to change a given string to a new string where the first and lastcharacter has been exchanged.	5	7
9.	a) Write a python program to check whether the given year is leap year or not. b) Write a python to remove duplicate element from list. Or Write a function make pairs that takes as input two list of equal length and return a single list of same length where kth element is pair with kth element of the list from the input list.	3	7

Meerut Institute of Technology, Meerut
Department of Mechanical Engineering
PUT Examinations 2023-24 (Even Sem.)

B.Tech. ME (SEM 4TH).   Subject: Manufacturing Processes,

MM : 70

Sub Code : BME-403

Note : All questions are compulsory.

Duration: 3:00 Hrs

22/7

4

Q.1.

Section - A

S.No.	Questions	COs	MM
a.	Differentiate between **open die forging** and **closed die forging**?	1	1
b.	Why machining allowance is provided in casting.	1	1
c.	Differentiate between glazing and loading in grinding.	3	1
d.	Discuss the purpose of **welding flux** used in SAW process.	4	1
e.	What is the difference between **cutting tool** and **machine tool**?	2	1
f.	Differentiate between **wire drawing** and extrusion.	1	1
g.	Explain **friability in grinding**.	3	1
h.	Differentiate between **single point** and **multi point** cutting tool.	2	1
i.	What are the various consumables used in arc welding processes?	4	1
j.	How **non-conventional machining** differs from **conventional machining** process?	5	1
k.	Why **abrasives** are not recycled in **abrasive jet machining**?	5	1
l.	What are the advantaged of CNC over NC machines?	2	1
m.	What is the function of **electrolyte** in ECM?	5	1
n.	Differentiate between **brazing and soldering process**?	4	1

Section - B

S.No.	Questions	COs	MM
2.a	What do you understand by **tool wear**? Explain **crater wear and flank wear** with the help of suitable diagram.	3	3.5
2.b.	What do you mean by **taper turning** operation? Explain any one methods of **taper turning** with help of neat sketch.	2	3.5
3.a.	Differentiate the **hot working and cold working** process. Justify which process is best suitable for **wire drawing**?	1	3.5
3.b.	How are **grinding wheels** specified? Clearly differentiate between **grade** and **structure** of a grinding wheel?	3	3.5

4.a.	Explain the working of **atomic hydrogen** welding with help of suitable diagram; also write down their specific applications and advantages and limitations?	4	3.5
4.b.	Write brief notes on all of the following : (i) **Electron beam Machining (EBM)** (ii) **Ultrasonic Machining (USM)** (iii) **Laser beam machining** (LBM)	5	3.5

Section - C

S.No.	Questions	COs	MM
5.	Explain **Merchant's force circle** diagram and derive the **merchant's shear angle** relationship.	2	7
6.	Write brief notes on all of the following a) Honing b) Lapping c) Super-finishing.	3	7
7.	Explain the principle of **Resistance welding** process. Discuss how heat balance is achieved in **resistance spot welding**?	4	7
8.	What is **Abrasive jet machining (AJM)**? Describe its working with suitable diagram. Also explain the effect of standoff distance and abrasive grit size on material removal rate in the AJM	5	7
9.	Explain the working of **Friction welding** process with the help of neat sketch. Also give its advantages and limitations.	4	7

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Minus Lecture is Testaur	EXAM TYPE: PUT	DATE OF EXAM: ....
	Subject Name: Universal Human values Subject Code: ......BVE 401	
	Total Marks: 70. Time: 3 Hrs. Student's Name:	

Section (A)

Q.1 Attempt all parts in brief.

(2X7=14)

	Question	Marks	CO
a.	List the domains of educations and how are they complementary to each other?	2	1
b.	List the two instances of conflicts when our activities are not guided by our natural acceptance.	2	1
c.	Write the two problems that we are facing today because of operating on the basis of pre-conditioned desires.	2	2
d.	Define the excellence. Is working for competition the same as working for excellence?	2	3
e.	Describe the term "Nature".	2	4
f.	Express the term 'submergence' with reference to coexistence in existence.	2	4
g.	List any two criteria for the humanistic management model.	2	5

Section (B)

Q.2 Attempt ANY THREE parts.

(3X7=21)

	Question	Marks	CO
a.	Differentiate between prosperity and wealth. Describe the prevailing notions of happiness, prosperity and its consequences.	7	1
b.	Describe the correlation between Sanyam and Swasthya. Suggest any two programs that you can undertake to improve the health of your body.	7	2
c.	Explain the feelings of care and guidance, glory, reverence and gratitude.	7	3
d.	"Other than human order, the three orders are mutually fulfilling to each other." Explain with examples. Why does human order fail to be mutually fulfilling to itself and to the other orders?	7	4
e.	Explain the meaning of profession and explore the need of ethical competence in profession.	7	5

Section (C)

Q.3 Attempt ANY ONE part

(1X7=7)

	Question	Marks	CO
a.	Analyze the term 'Holistic Development'. Critically analyze the role of Education-Sanskar in holistic development.	7	1
b.	Explain the content and process of self exploration. How do our preconditioning hinder this process ? Justify your answer with one example.	7	1

Q.4 Attempt ANY ONE part

(1X7=7)

	Question	Marks	CO
a.	List the three sources of imagination in the Self and analyze the consequences with examples, when our imagination is guided by the different sources as discussed in the course. How the harmony in the Self can be ensured by way of Self-exploration?	7	2
b.	Discriminate the response of the 'Self' from the response of the 'Body'. Elaborate with the example how response of the Self will be definite with the knowing in the self.	7	2

Q.5 Attempt ANY ONE part

(1X7=7)

	Question	Marks	CO
a.	Explain the comprehensive human goal and critically examine the goals of the present-day society with respect to human goal with its outcome.	7	3
b.	'Every human being is similar to me', explain the statement. How respect can be ensured if everyone has different competence?	7	3

Q.6 Attempt ANY ONE part

(1X7=7)

	Question	Marks	CO
a.	Explain the activities in the four orders of the nature. How are the activities in the human order qualitatively different from those of other three orders?	7	4
b.	Describe the meaning of co-existence. How are units in co-existence being in space?	7	4

Q.7 Attempt ANY ONE part

(1X7=7)

	Question	Marks	CO
a.	Visualize a framework for humanistic education for children. Suggest a few ways to modify present das school education.	7	5
b.	Express the essence of ethical human conduct. Explain it in terms of values, policies and character.	7	5

-End-

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Max.Marks: 30   Time: 01:30Hrs

Note: Attempt all Sections.

Section A

1. Attempt all questions.   8x1=8

Q.No	Question	CO
a.	What is ancient India? Define the term culture, tradition and society.	CO1
b.	What is kinship?	CO1
c.	Define term slavery.	CO1
d.	Discuss the term Marriage.	CO1
e.	Discuss the statement gender as a social category.	CO1
f.	What is untouchability?	CO1
g.	What is slavery? Name the types of slavery.	CO1
h.	What is administration?	CO1

Section B

2. Attempt any one part of the following: 4x3=12

Q.No	Question	CO	MM
a.	Discuss four Purusharthas as a fundamental principle of human being life.	CO1	3
b.	Discuss council of ministers in ancient India	CO1	3

3. Attempt any one part of the following:

Q.NO	Question	CO	MM
a.	Discuss different types of Marriage in ancient India.	CO1	3
b.	Discuss the challenges faced by women in ancient India	CO1	3

4. Attempt any one part of the following:

Q.NO	Question	CO	MM
a.	Discuss the duties of the king mentioned in chanakya's Arthashastra.	CO1	3
b.	Discuss the political ideals in ancient India.	CO1	3

5. Attempt any one part of the following:

Q.NO	Question	CO	MM
a.	Discuss four classes of classification. Explain	CO1	3
b.	Discuss the representation of women in historical tradition.	CO1	3

Section C

6. Attempt any one part of the following: 2x5 =10

Q.No	Question	CO	MM
a.	What is Varnâshrama system? Discuss the stages of life in detail.	CO1	5
b.	God created various Varnas from his various organs. Justify this statement by explaining Varnas	CO1	5

7. Attempt any one part of the following:

Q.NO	Question	CO	MM
a.	What is Saptanga theory? Discuss this theory in detail	CO1	5
b.	What is state in ancient India? Discuss the stage formation in ancient India	CO1	5

Max.Marks: 30   Time: 01:30Hrs

Note: Attempt all Sections.

Section A

1. Attempt all questions.   8x1=8

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a.	What is ancient India? Define the term culture, tradition and society.	CO1
b.	What is kinship?	CO1
c.	Define term slavery.	CO1
d.	Discuss the term Marriage.	CO1
e.	Discuss the statement gender as a social category.	CO1
f.	What is untouchability?	CO1
g.	What is slavery? Name the types of slavery.	CO1
h.	What is administration?	CO1

Section B

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Section C

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a	What is Saptanga theory? Discuss this theory in detail	CO1	5
b	What is state in ancient India? Discuss the stage formation in ancient India	CO1	5

Max.Marks: 30   Time: 01:30Hrs

Note: Attempt all Sections.

Section A

1. Attempt all questions.   8x1=8

Q.No	Question	CO
a	What is idea?	CO1
b	What is business model?	CO1 / CO1
c	What is production planning?	CO1
d	What is product and service?	CO1
e	What is creativity?	CO1
f	What is product adoption lifecycle?	CO1
g	How will you define the risk	CO1
h	Define entrepreneur.	CO1

Section B

2. Attempt any one part of the following: 4x3=12

Q.No	Question	CO	MM
a	What is innovative idea and business idea? How to search a business idea	CO1	3
b.	Write a note on creativity and design thinking with suitable example.	CO1	3

3. Attempt any one part of the following:

Q.NO	Question	CO	MM
a.	How to choose business idea? Discuss with example how to explore new idea with example	CO1	3
b.	What is new product idea? Explain the different ways to develop new idea	CO1	3

4. Attempt any one part of the following:

Q.NO	Question	CO	MM
a.	What is product innovation? Discuss the 7 steps of Production, Planning, and Development Strategy.	CO1	3
b.	What is idea generation? Discuss the stages in creative process.	CO1	3

5. Attempt any one part of the following:

Q.NO	Question	CO	MM
a.	What is adoption process? Explain the stages of adoption process.	CO1	3
b.	What is product adoption curve? Discuss kind of metrics we use to analysis and improve product adoption	CO1	3

Section C

6. Attempt any one part of the following: 2x5 =10

Q.No	Question	CO	MM
a.	What is entrepreneurship? Elaborate types of entrepreneurs	CO1	5
b.	What things influence the product adoption rate and what business can do to improve product adoption	CO1	5

7. Attempt any one part of the following:

Q.NO	Question	CO	MM
a.	What is an entrepreneur? Discuss the characteristics of entrepreneur	CO1	5
b.	Discuss the method of idea generation. Explain sources of idea generation	CO1	5

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT
First Sessional Examination, 2023-24
B.Tech.- 3rd Sem (DS/ME/EC/CE)
Energy science and engineering (BOE 033)

Time: 01:30 Hrs

Max. Marks: 20
Note: Attempt all Sections.

Section A

Attempt ALL Questions, each question carry ONE Mark.   [1*5=5]

Q.No	Question	CO
		1
Q No.1	Define the term entropy in short.	1
Q No.2	Explain electromagnetic radiation in short.	1
Q No.3	Draw refrigeration cycle.	2
Q No.4	Define Nuclear force and Binding energy.	1
Q No.5	Write a short note on internal combustion engine and external combustion engine.	

Section B

Attempt ALL Questions, each question carry 2.5 Marks.   [2.5*4=10]

Q.No	Question	CO
		1
Q No.1	Derive time independent Schrodinger wave equation.	
Q No.2	Show the radioactivity decay follows exponential law.	1
Q No.3	Explain the phenomenon of nuclear fusion and fission in detail.	2
Q No.4	What do you mean by binding energy? What is the total binding energy per nucleon for the $_{17}Cl^{35}$ nucleus?	2

Section C

Attempt any one Question, each question carry equal Marks.   [5*1=5]

Q. No	Question	CO
Q No.1	Explain the Carnot vapour power cycle with P-v and T-s diagram. Also find out the efficiency of Carnot cycle.	1
Q No.2	Explain nuclear reactor and its components with suitable diagram. With a neat sketch, explain pressurized water reactor (PWR), highlights its merits and demerits.	2

Max. Marks: 30   Time: 01:30 Hrs

Note: Attempt all Sections (All Questions).

Section A

Attempt **ALL Questions, each question carry ONE Mark.**   [1*8=8]

Q.No	Question	CO
		CO1
Q No.1	Define heat transfer?	CO1
Q No.2	What is thermal resistance?	CO1
Q No.3	Define convection heat transfer coefficient	CO1
Q No.4	What is critical thickness of insulation?	CO1
Q No.5	Write the expression for thermal resistance of a plane wall of thickness L, thermal conductivity k and area A.	CO1
Q No.6	Define thermal diffusivity.	CO1
Q No.7	What do you mean by steady heat conduction?	CO1
Q No.8	Define thermal conductivity of a material.	CO1

Section B

Attempt **ALL Questions each question carry THREE Marks.**   [3*4=12]

Q.No	Question	CO
		CO1
Q No.1	What is Fourier's law of conduction?	CO1
Q No.2	Explain briefly the various modes of heat transfer.	CO2
Q No.3	A plastic pipe (k=0.5 W/mK) carries a fluid such that the convective heat transfer coefficient is 300 W/m^{2}K. The average fluid temperature is 100^{0}C. The pipe has an inner diameter of 3 cm and outer diameter of 4 cm. If the heat transfer rate through the pipe per unit length is 500 W/m, calculate the external pipe temperature and the overall heat transfer coefficient based on outside area.	CO2
Q No.4	ustrial furnace is made of fire clay brick of thickness 25 cm and thermal conductivity k$_1$=1 W/m K. The outside surface is insulated with material (k$_2$ =0.05 W/m K) . Determine the thickness of the insulation layer in order to limit the heat loss from the furnace wall to q = 1000 W/m^2 when the inside surface of the wall is at 1030^{0}C and the outside surface at 30^{0}C.	CO2

Section C

Attempt **ALL Questions each question carry FIVE Marks.**   [5*2=10]

Q. No	Question	CO
		CO1
Q No.1	Derive general heat conduction equation in Cartesian coordinates.	CO1
Q No.2	Heat is generated uniformly in a stainless steel plate having k =20 W/m K. The thickness of the plate is 1 cm and heat generation rate is 500 MW/m^3. If the two sides of the plate are maintained at 100·C and 200·C respectively, Calculate: (i) the temperature at the centre of the plate (ii) the position and value of maximum temperature	CO2

Max. Marks: 30   Time: 01:30 IIrs

Note: - Attempt all sections.

SECTION-A	
Attempt ALL questions each carry ONE marks	**(1 x 8=08)**

1	What is rural development?	CO1
2	What are the basic elements of rural development?	CO1
3	What are the problem /challenges faced by rural people in rural development?	CO1
4	What is Paramparagat Krishi Vikas Yojana?	CO1
5	What is Jawahar Rozgar Yojana? Explain two objectives.	CO1
6	What is Indira Awas Yojana?	CO1
7	What is Minimum Need Program?	
8	Write the full form of MNREGA	

SECTION-B	
Attempt ALL questions each carry THREE marks.	**(3x 4=12)**

1	What are the basic elements of rural development? Discuss the scope and need of rural development?	CO1
2	What is Pradhan Mantri Fasal Bima Yojana? Discuss in detail	CO1
3	Describe in detail any one program or policy undertaken by government of India for rural development.	CO1
4	Explain watershed development project in Rain fed areas and its objective	CO1

SECTION-C	
Attempt ALL questions each carry FIVE marks	**(5 x 2=10)**

1	What is Mahatma Gandhi national rural employment guarantee act (MNREGA)? Discuss objective and goals of MNREGA	CO1
2	Enlist the various policies and program undertaken by government of India for rural development in agricultural sector.	CO1

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT
SECOND SESSIONAL EXAMINATION, SESSION (2023-24)
B. Tech – VII Semester CSE (A+B), ME, CE, EC
<u>Subject & Code – Rural Development Administration and Planning (KHU-701)</u>

Max. Marks: 30   **Time: 01:30 Hrs**
<u>**Note: - Attempt all sections.**</u>

SECTION-A

<u>**Attempt ALL questions each carry ONE marks**</u>   **(1 x 8=8)**

1	How can you say that "Gram Sabha is the basic unit of Panchayat Raj system"?Justify	CO3
2	What is Panchayat raj system?	CO3
3	Why was Nilokheri Experiment called as "Mazdoor Manzil"?	CO2
4	State the basic elements of Gandhian approach to rural community	CO3
5	Write objectives of gram Panchayat.	C03
6	What is NABARD?	CO3
7	What is Etwa pilot project?	CO1
8	Explain in short Marthandam project?	CO2

SECTION-B

<u>**Attempt ALL questions each carry THREE marks.**</u>   **(3x 4=12)**

1	What was Gandhian view of self –sufficient village economy	CO2
2	Discuss Firka movement and Etawa Pilot project with respect to their methodology Of working	CO2
3	Write a short note on Sriniketan experiment.	CO2
4	Describe the need for non-government organization working in the field of rural development	CO3

SECTION-C

<u>**Attempt ALL questions each carry FIVE marks**</u>   **(5 x 2=10)**

1	Describe the structure of Panchayati raj institution in India along with the role and functions of each level.	CO3
2	Describe the role and functioning SHGs in rural development.	CO2

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT
Second Sessional Examination, Session 2023-24
B.Tech.- V Sem (ME)
Heat and Mass Transfer (KME- 501)

Max. Marks: 30   Time: 01:30 Hrs

Note: Attempt all Sections (All Questions).

Section A
Attempt ALL Questions, each question carry ONE Mark.   [1*8=8]

Q.No	Question	CO
Q No.1	What is meant by transient heat conduction?	CO1
Q No.2	Define efficiency and effectiveness of the fin.	CO1
Q No.3	Explain Newton's law of cooling.	CO1
Q No.4	What do you understand by overall heat transfer coefficient?	CO1
Q No.5	Why are fins installed in electric motor?	CO1
Q No.6	How heat exchangers are classified?	CO1
Q No.7	Define boiling and condensation.	CO1
Q No.8	What do you mean by NTU.	CO1

Section B
Attempt ALL Questions each question carry THREE Marks.   [3*4=12]

Q.No	Question	CO
Q No.1	In a double pipe counter flow heat exchanger 10000 kg/h of an oil having a specific heat of 2095 J/kg K is cooled from 80^0C to 50^0C by 8000 kg/h of water entering at 25^0C. Determine the heat exchanger area for an overall heat transfer coefficient of 300 W/m^{2}K. Take specific heat of water as 4.18 kJ/kg K.	CO2
Q No.2	A very long 1 cm diameter copper rod (k=377 W/m K) is exposed to an environment at 22^0C. The base temperature of the rod is maintained at 150^0C. The heat transfer coefficient between the rod to the surrounding air is 11 W/m^{2}K. Estimate the heat transfer rate from the rod to the surrounding air.	CO2
Q No.3	A steel ball, 5 cm in diameter initially at a temperature of 450^0C is suddenly placed in a controlled environment in which the temperature is maintained at 100^0C. Calculate the time required for the ball to attain a temperature of 150^0C taking the following property values For steel: k = 35 W/mK, C =0.46 kJ/kg k,ρ = 7800 kg/m^3 Convection heat transfer coefficient = 10 W/m^2 K .	CO2
Q No.4	Derive the relation: $$\frac{t-t_a}{t_i-t_a} = \exp\left[-\frac{hA}{\rho V c}\tau\right]$$	CO2

Section C
Attempt ALL Questions each question carry FIVE Marks.   [5*2=10]

Q. No	Question	CO
Q No.1	Derive an expression for effectiveness by NTU method for parallel flow.	CO2
Q No.2	Define pool boiling and also explain regimes of pool boiling with the help of diagram.	CO2

(100)

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT (College Code : 292)
Second Sessional Examination, Session 2023-24
B.Tech.-3rd, Sem (DS +CE+EC+ME)
Technical Communication (BAS- 302)

Max. Marks: 20   Time: 01:30Hrs.

Note: Attempt all Sections.

Section A
Attempt ALL Questions, each question carry ONE Mark.   [1*5=5]

Q.No	Question	CO
		CO2
Q No.1	Describe Resume writing?	CO2
Q No.2	List the differences between Resume and CV	CO2
Q No.3	In your words define SOP	CO3
Q No.4	Describe in Technical Proposal Writing	CO3
Q No.5	Elucidate the elements of Speech Delivery	

Section B
Attempt any ALL Questions, each question carry 2.5 Mark.   [2.5*4=10]

Q.No	Question	CO
		CO2
Q No.1	In detail talk about Networking and how it affects communication	CO3
Q No.2	What are the characteristics of a Pitch Deck and list its benefits	CO3
Q No.3	Elucidate the nuances of speech delivery	
Q No.4	What do you understand by the term Effective profiling	CO2

Section C
Attempt anyone Questions each question carry equal Marks.   [5*1= 5]

Q.No	Question	CO
		CO2
Q No.1	Write an essay in 150 words on Interview Skills	CO3
Q No.2	Write an essay on Speech Delivery in 150 words	

BEST OF LUCK

03

Time: 01:30 Hrs

Max. Marks: 30

Note: Attempt all Sections (All Questions).

Section A

Attempt ALL Questions, each question carry ONE Mark.

[1*8=8]

Q.No	Question	CO
		3
Q No.1	What do you mean by photo-polymerization .	3
Q No.2	Write down the advantages of Vat Photo-polymerization.	3
Q No.3	What is a Bio-plotter.	3
Q No.4	Define Powder Recycling?	4
Q No.5	Write a short note on co-producing.	4
Q No.6	List out the various materials available for AM?	4
Q No.7	What is STL file.	4
Q No.8	Explain the self customization.	

Section B

Attempt ALL Questions each question carry THREE Marks.

[3*4=12]

Q.No	Question	CO
		3
Q No.1	Describe the step by step process of Material Jetting.	3
Q No.2	What are the various parameters on which the path control in extrusion based system depends ?	4
Q No.3	What is the role of 3D solid modeling software CAD in additive manufacturing ?	4
Q No.4	Explain how to create STL files from CAD system .	

Section C

Attempt ALL Questions each question carry FIVE Marks.

[5*2=10]

Q. No	Question	CO
		4
Q No.1	Describe the Directed Energy Deposition (DED) process of additive manufacturing. Also give its advantages and disadvantages.	
Q No.2	What are other ways aparts from STL file in which files can be defined for creations of the slice?	3

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT
2nd Sessional Examination, Session 2023-24
B.Tech.-V Sem (ME)
Computer Integrated Manufacturing - (KME051)

Max. Marks: 30   Time: 01:30 Hrs

Note: Attempt all Sections (All Questions).

Section A

Attempt **ALL** Questions, each question carry **ONE** Mark.
[1*8=8]

Q.No	Question	CO
Q No.1	What is numerical control?	3
Q No.2	What is CNC ?	3
Q No.3	What are the advantages of GT?	3
Q No.4	Name some different types of CNC machine tools.	3
Q No.5	What are the advantages of NC machines?	3
Q No.6	What are the basic components of an NC system?	3
Q No.7	What are the applications of NC machines?	3
Q No.8	What do you mean by group technology?	3

Section B

Attempt **ALL** Questions each question carry **THREE** Marks.   [3*4=12]

Q.No	Question	CO
Q No.1	Discuss in brief about the coordinate system in numerical control.	3
Q No.2	Write a short note on CNC programming.	3
Q No.3	Explain in brief about NC words.	3
Q No.4	Explain the role of computer in computer assisted par programming.	3

Section C

Attempt **ALL** Questions each question carry **FIVE** Marks.   [5*2=10]

Q.No	Question	CO
Q No.1	Define group technology. Mention its advantages and disadvantages.	4
Q No.2	What are the types of GT machine cells? Discuss in brief.	4

****

Name of the course: B.Sc CHEMISTRY (Hons.) II sem

Subject code:BCH-202

Name of the subject: PHYSICAL CHEMISTRY

Time Allowed: 2 Hours

Maximum Marks: 25

Section – A

(1x5 = 05)

(This section contains 5 questions, each carrying one mark. Answer should be brief)
(Answer in 25-50 words)

Q.NO	QUESTION	Course outcome	Taxonomy
1	What is meant by efficiency of an engine?	CO1	Understanding
2	Define cyclic process.	CO1	Understanding
3	What do you understand by adiabatic process?	CO1	Understanding
4	Define heat of neutralization.	CO1	Understanding
5	Write two differences between extensive and intensive property.	CO1	Remembering

Section – B

(2.5x2 = 05)

(This section contains 3 questions, you are required to attempt any 2 questions each carrying 2.5marks)
(Answer in 100-150 words)

Q.NO	QUESTION	Course outcome	Taxonomy
1	State and explain second law of thermodynamics.	CO1	Analysis
2	What do you understand by heat of combustion and its the application?	CO1	Remembering
3	Derive the relation between heat capacity at constant volume and pressure.	CO1	Evaluative

Section – C

(5X3 = 15)

(This section contains 5 questions, you are required to attempt 3 questions each carrying 05 marks)
(Answer in 200-300 words)

Q.NO	QUESTION	Course outcome	Taxonomy
1	What is Carnot process? Deduce an expression for the efficiency of a carnot's engine working between absolute temperature T_1 and T_2.	CO1	Evaluative
2	Calculate the work done during isothermal expansion of one mole of an ideal gas from 10atm ti 1 atm at 300k..	CO1	Evaluative
3	. Calculate the heat of formation of ethylene from the following data : (1) $C(s) + O_2(g) \rightarrow CO_2(g)$; $\Delta H = -94.0\ kcal.$ (2) $H_2(g) + (1/2) O_2(g) \rightarrow H_2O(l)$; $\Delta H = -64.4\ kcal.$ (3) $C_2H_4(g) + 3O_2(g) \rightarrow 2CO_2(g) + 2H_2O(l)$; $\Delta H = -337.0\ kcal.$	CO1	Understanding
4	Calculate the work done when a gas expands isothermally and reversibly from v_1 to v_2	CO1	Analysis
5	Prove that in a reversible process net entropy change for system and surrounding is0	CO1	Remembering

Name of the course: B.Sc CHEMISTRY (Hons.)

Subject code: BCH-101

Name of the subject: INORGANIC CHEMISTRY

Time Allowed: $1^{1/2}$ Hours

Maximum Marks: 50

Section – A

(2x5 = 10)

(This section contains 5 questions, each carrying one mark. Answer should be brief)
(Answer in 25-50 words)

Q.NO	QUESTION	Course outcome	Taxonomy
1	What is Pauli exclusion principle?	CO1	Understanding
2	What is Heisenberg uncertainty principle? Give its significance.	CO1	Understanding
3	What is Bent Rule ?	CO3	Understanding
4	Define Bond Order and its Significance.	CO3	Understanding
5	Write two difference between BMO and ABMO.	CO3	Remembering

Section – B

(5x2 = 10)

(This section contains 3 questions, you are required to attempt any 2 questions each carrying 2.5marks)
(Answer in 100-150 words)

Q.NO	QUESTION	Course outcome	Taxonomy
1	What is Hund's rule of maximum multiplicity? Explain the energy levels of different sub-shells for single electron atoms and multi-electron atoms.	CO1	Analysis
2	What is de-Broglie equation? Explain and prove the de-Broglie equation	CO1	Remembering
3	Explain Band Theory of Metals.	CO1	Analysis

Section – C

(10X3 = 30)

(This section contains 4 questions, you are required to attempt 3 questions each carrying 10 marks)
(Answer in 200-300 words)

Q.NO	QUESTION	Course outcome	Taxonomy
1	What is Schrodinger wave equation? Explain briefly the physical significance of wave function Ψ and Ψ^2 in Schrodinger wave equation.	CO1	Evaluative
2	Write down the Bohr's postulates of Atomic Structure. Also discuss the merits and limitations of Bohr' s Theory.	CO1	Evaluative
3	Discuss Molecular Orbital Theory in detail and draw the MO diagram for HF molecule giving its bond order.	CO3	Understanding
4	Write short notes on – (a) Hydrogen Bonding (b) Vander Waal's Interactions	CO3	Understanding

MEERUT INSTITUTE OF TECHNOLOGY (PC),MEERUT

Pre-University Examination 2024-25

Name of course: B.Sc. Honors   Name of subject:Organic Chemistry   Subject Code:BCH-302

Time Allowed -3:00 H   Maximum Marks: 50

Section-A.   (2x5=10) Answer in 50-100 words)

(This section contains 5 questions, each carrying two mark, Answer should be brief.)

Question No.	Questions	Course outcome
1.	Write the chemical equation for the following: a) Acid chloride from PCl_5 b) 2°Alcohol by grignard reagent	CO2
2.	Write the Kolbe process of salicylic acid?	CO3
3.	Define cyclic ethers and uses?	CO3
4.	What are SN1 and Sn2 reactions for haloalkanes?	CO1
5.	Give the reduction reaction for ketons by the following: a)$LiAlH_4 /H_3O^+$ b)$NaBH_4$/Acid c) Zn(Hg)/HCl	CO2

Section-B   (5x2=10) (Answer in 150-200 words)

(This section contains 3 questions with NO internal choice, you are required to attempt any 2 questions each carrying 5 marks)

Question No.	Questions	Course outcome
1.	Write the mechanism of the following reaction: a) Clemmensen Reduction c)Wolff-Kishner	CO4
2.	Write the detail note on acidity of phenol and effect of substituent's of acidity	CO2
3.	Explain the preparation of aldehyde by Stephen and etard reaction?	CO3

Section-C   (10x3=30) (Answer in 300-500 words)

(This section contains 5 questions with NO internal choice, you are required to attempt any 3 questions each carrying 10 marks)

Question No.	Questions	Course outcome
1.	Explain the following with mechanism: a)Claisen- Condensation b)Reformatsky Reaction c)Deckmann Reaction d) Hoffmann-Bromamide Degradation	CO4
2.	Give the classification, preparation, properties of dicarboxylic acids?	CO4
3.	Write preparation and chemical properties of any two from the following: a)Acid Chloride b)Acid Anhydride c)Acid Amide d)Ester	CO3
4.	What are the carbonyl compounds , give the preparation and properties of aldehyde and keton?	CO3
5.	Give nomenclature, Synthesis method and chemical properties of epoxides? Also give examples of their ammonium derivatives?	CO3

Name of the course: **B.Sc. (Hons.) Chemistry**
Name of the subject: **Organic Chemistry**   Subject code: **BCH- 401**
Time Allowed: **2. 00 Hours**   Maximum Marks: **50**

Section – A (2x5 = 10)

(This section contains 5 questions, each carrying 2 marks. Answer should be brief)

Ques. No.	Question	Course Outcome
1	What are Isoenzymes? Give two examples.	CO2
2	Define Allosteric Inhibition .	CO3
3	Name any two colour reactions given by Proteins.	CO1
4	Define Zwitter ion.	CO2
5	Name any two Antipyretics Drugs.	CO1

Section – B (5x2 = 10)

(This section contains 3 questions, you are required to attempt any 2 questions each carrying 5 marks)

Ques. No.	Question	Course Outcome
6	Write short note on – a. Mode of action of Chloroquine b. Medicinal Value of Curcumin	CO3
7	Give Solid Phase Synthesis of Tripeptide: Gly, Ala, Val	CO2
8	Write a short note on secondary Structure of Proteins.	CO3

Section – C (10X3 = 30)

(This section contains 5 questions, you are required to attempt any 3 questions each carrying 10 marks)

Ques. No.	Question	Course Outcome
9	Write short note on- a. Factors affecting Enzyme Action. b. Important characteristics of Watson and Crick model of DNA.	CO1
10	Write a note on Saponofication value and how will you calculate Iodine number.	CO1
11	What are Synthetic detergents and how are they harmful for environment.	CO2
12	Explain N-terminal residue analysis in Proteins through Edmann's Degradation method.	CO1
13	Write 10 steps of Glycolysis in detail.	CO2

SAMPLE

COURSE OUTCOMES

EVALUATED ANSWER

SHEETS

SESSION 2023-24

MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

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TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date 31|01|2024	Day wednesday.
●ift	1st	Course	B.Tech
Student's Name	Sony Kumar	Roll Number	2 2 0 2 9 2 0 1 0 0 1 1 0
Father's Name	Upendra Thakur	Branch (if any)	CSE
Subject Code	B C S - 3 0 1 L	Semester/Section	III	B
Subject Name	Data Structure	Room Number	F-309
Signature of Candidate	SK	Signature of Invigilator	

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1																						
CO2																						
CO3	1												2.5								3.5	3.5
CO4			1	1																	2	2
CO5	1		1								2	2.5	2.5			5					14	14.5

Total Marks (In Words) : Ninteen point five

Total Marks **19.5**

REMARK(s)	Signature of the examiner:
Excellent	
	Evaluated Answer Sheet is seen. Signature of Examinee:

1

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TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	31/1/24	Day	Wednesday
Shift	I	Course	Btech.
Student's Name	Anushka Verma	Roll Number	2 2 0 2 9 2 1 5 3 0 0 0 7
Father's Name	Mr. Arun kumar	Branch (if any)	AIML.
Subject Code	B C S 3 0 1	Semester/Section	III	B.
Subject Name	D.S.	Room Number	F - 310
Signature of Candidate	Anushka	Signature of Invigilator	gmw

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1																						
CO2																						
CO3		O	*										2·5								2·5	3·5
CO4				±±																	1	2
CO5	1	0	1								2·5	2·5	2·5				5				14·5	14·5

Total Marks (In Words) : .....Eighteen.....

Total Marks 18

REMARK(s)	Signature of the examiner:
Good	
	Evaluated Answer Sheet is seen. Signature of Examinee: Anushka

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INSTRUCTIONS FOR STUDENT

- Fill all entries carefully.
- Follow the instructions given on question paper carefully.
- Write on both the sides of the answer sheet.
- Record the attendance carefully.
- Do not tear off any page from the answer book.

Session 20 23 - 20 24

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT ✓	Date	06/06/24 **DAY** Thursday
Shift	Ist	Course	B·Tech
Student's Name	Aisha Ghosh	Roll Number	2 2 0 2 9 20 1 0 0 0 1 2
Father's Name	Tapas Ghosh	Branch (if any)	C·S·E
Subject Code	B C C - 4 0 1	Semester/Section	IV (A)
Subject Name	CSS	Room Number	F - 002
Signature of Candidate	Aisha Ghosh	Signature of Invigilator	Nagendra

FOR THE USE OF EXAMINER

COs	Section - A										Section - B					Section - C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1																						
CO2	1	1	½								2·5	2·5									7·5	8
CO3				1	1									2·5			2				6·5	12
CO4																						
CO5																						

Total Marks (In Words) Fourteen only

Total Marks 14 / 20

REMARK(s)	Signature of the Examiner : Gosh
	Evaluated Answer Sheet is seen Signature of Examinee : Aisha Ghosh

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- Fill all entries carefully.
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- Do not tear off any page from the answer book.

Session 20 23 - 20 24

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	06/06/24	DAY	Thursday
Shift	1st	Course	B.Tech		
Student's Name	Ankit Kumar.	Roll Number	2 2 0 2 9 2 0 1 0 0 0 2 6		
Father's Name	Pramod Kumar	Branch (if any)	C.S.E		
Subject Code	B C C 4 0 1	Semester/Section	4th / A		
Subject Name	Cyber Security	Room Number	F-008		
Signature of Candidate	Ankit Kr. Choudhary	Signature of Invigilator			

FOR THE USE OF EXAMINER

| COs | Section - A | | | | | | | | | | Section - B | | | | | Section - C | | | | | Total | |
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1																						
CO2	1	1	1								1	1									05	08
CO3			1	1								2.5	2.5		3						10	12
CO4																						
CO5																						

Total Marks (In Words) ..... Fifteen only :-

Total Marks **15** /20

REMARK(s)

Signature of the Examiner : Gosiya

Evaluated Answer Sheet is seen
Signature of Examinee : Ankit Kumar

(A -Sheet)

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INSTRUCTIONS FOR STUDENT

- Fill all entries carefully.
- Follow the instructions given on question paper carefully.
- Write on both the sides of the answer sheet.
- Record the attendance carefully.
- Do not tear off any page from the answer book.

Session 20 23 – 20 24

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	25 Sept. 23	Day	Monday
Shift	1st	Course	BTech
Student's Name	Rajat Gupta	Roll Number	
Father's Name	Manoj Kumar Gupta	Branch (if any)	AIML
Subject Code	B C S 1 0 1	Semester/Section	1st	E
Subject Name	PPS	Room Number	C- 204
Signature of Candidate	Rajat.	Signature of Invigilator	25/9/23

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1		2			2							5	3½			10	10	8			40½	44
CO2	2		2										5								15	16
CO3																						
CO4																						
CO5																						

Total Marks (In Words) : ....

Total Marks 56/60

REMARK(s)

Signature of the examiner:

Evaluated Answer Sheet is seen.
Signature of Examinee: Rajat.

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Session 2023 – 2024

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	25|09|23	Day	Monday
Shift	Ist	Course	B.tech		
Student's Name	Ujjwal Singh	Roll Number			
Father's Name	Mr. Narendra Kumar	Branch (if any)	CSE (AI/ML)		
Subject Code	B C S 1 0	Semester/Section	Ist E		
Subject Name	P.Ps	Room Number	C-204		
Signature of Candidate	Ujjwal singh	Signature of Invigilator			

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1	2	2			2							5	5			10	10	9			43	44
CO2	2		1½	2										5							14½	16
CO3																						
CO4																						
CO5																						

Total Marks (In Words) : ....

Total Marks 58/60

REMARK(s)	Signature of the examiner:
	Evaluated Answer Sheet is seen. Signature of Examinee: Ujjwal Singh

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8 pages

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	25/09/23 Day Monday
Shift	1st	Course	B. Tech
Student's Name	Himanshu Kumar	Roll Number	
Father's Name	Ravindra Nath Yadav	Branch (if any)	CS (AI ML)
Subject Code	B.CS – 1 0 1	Semester/Section	B 1st E
Subject Name	P.P.S	Room Number	C-105
Signature of Candidate	Himanshu	Signature of Invigilator	25/9/23

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	-1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1		0			2						1	5	5	2		$9\frac{1}{2}$	9	$9\frac{1}{2}$			40	44
CO2	12	10	2	0							4	4	5	5							$13\frac{1}{2}$	16
CO3																						
CO4																						
CO5																						

Total Marks (In Words) :..

Total Marks **53/60**

REMARK(s)

Signature of the examiner:

Evaluated Answer Sheet is seen.
Signature of Examinee: Himanshu

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A +B

8 pages

INSTRUCTIONS FOR STUDENT

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Session 20..23... – 20..25...

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	05-10-2023 / Day Thursday
Shift	1	Course	Bcom (hons)
Student's Name	Kabir	Roll Number	0 8
Father's Name	Persainjeet	Branch (if any)	Commerce
Subject Code	B C M 3 1 4	Semester/Section	3 (A)
Subject Name	Business Communication	Room Number	405
Signature of Candidate		Signature of Invigilator	

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1	1	1	1	1	1							2.5	2			3.5	5	4			22	25
CO2																						
CO3																						
CO4																						
CO5																						

Total Marks (In Words) : ......Twenty Two........

Total Marks | 22

REMARK(s)	Signature of the examiner: Akanshu
Good work keep it up.	Evaluated Answer Sheet is seen. Signature of Examinee: Kabir

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ANSWER BOOKLET

A +1

8 pages

INSTRUCTIONS FOR STUDENT

- Fill all entries carefully.
- Follow the instructions given on question paper carefully.
- Write on both the sides of the answer sheet.
- Record the attendance carefully.
- Do not tear off any page from the answer book.

Session 20 23 – 20 24

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	3 Oct 2023 Day Tuesday
Shift	II	Course	B.COM (Hons.)
Student's Name	GAURIKA VASHISHTH	Roll Number	2 2 1 1 0 3 0 0 0
Father's Name	MANOJ KUMAR VASHISHTH	Branch (if any)	B.com (Hons.)
Subject Code	B C M 3 1 2	Semester/Section	II
Subject Name	BUSINESS ECONOMICS	Room Number	405
Signature of Candidate	*Gaurika*	Signature of Invigilator	

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	M
CO1	1	1	1	1	1	2	$\frac{1}{2}$				2	$2\frac{1}{2}$					$3\frac{1}{2}$	$4\frac{1}{2}$	$4\frac{1}{2}$		22	
CO2																						
CO3																						
CO4																						
CO5																						

Total Marks (In Words) : ......Two Two only......

Total Marks   22

REMARK(s)	Signature of the examiner:
	Evaluated Answer Sheet is seen. Signature of Examinee: *Gaurika*

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- Fill all entries carefully.
- Follow the instructions given on question paper carefully.
- Write on both the sides of the answer sheet.
- Record the attendance carefully.
- Do not tear off any page from the answer book.

Session 20..23. – 20....26.

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	5-oct-2023 Day Thursday
Shift	IInd	Course	B.com
Student's Name	Palak Gautam	Roll Number	
Father's Name	Sardeepkumar	Branch (if any)	
Subject Code	Q1 0 0 0 4	Semester/Section	Ist
Subject Name	Basic Economics	Room Number	405
Signature of Candidate	Palak Gautam	Signature of Invigilator	05/10/23

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	M
CO1			4	4	4			5													21	2
CO2																						
CO3																						
CO4																						
CO5																						

Total Marks (In Words) : ......Twenty One......

Total Marks 21

REMARK(s)	Signature of the examiner:
	Evaluated Answer Sheet is seen. Signature of Examinee: Palak Gautam

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TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	06/11/23	**Day** Monday
Shift	2nd	Course	B. pharm
Student's Name	Mony Kumar	Roll Number	2 2 0 2 9 2 0 5 0 0 0 2
Father's Name	NAumani yadav	Branch (if any)	B. pharm
Subject Code	B P 3 0 2 T	Semester/Section	III
Subject Name	physical pharmaceuti	Room Number	E-107
Signature of Candidate	Mony kumar	Signature of Invigilator	Hasanal

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1	2	1.5	2																		5.5	
CO2				2 2																	4	
CO3																	4				4	
CO4																5					5	
CO5											10										10	

Total Marks (In Words) : ....Twenty eight & Half........

Total Marks 28.5

REMARK(s)

V. Good.

Signature of the examiner: *Kumal*

Evaluated Answer Sheet is seen.
Signature of Examinee: Manu Kumar

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INSTRUCTIONS FOR STUDENT

- Fill all entries carefully.
- Follow the instructions given on question paper carefully.
- Write on both the sides of the answer sheet.
- Record the attendance carefully.
- Do not tear off any page from the answer book.

Session 20..23.. – 20...24.

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	7/11/23
Shift	1st	Course(✔)	B. Tech./B. Voc./B.Pharm./D.Pharm.
Student's Name	Chandan kr Gupta	Roll Number	2 1 1 0 3 4 0 5 0 0 0 13
Father's Name	Mr. Jitnath Gupta	Branch (if any)	Pharmacy
Subject Code	B P 5 0 3 T	Semester/Section	V
Subject Name	Pharmacology - II	Room Number	E-208
Signature of Candidate	chandan kr Gupta.	Signature of Invigilator	

Day: Tuesday.

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1	1																				1	
CO2		2									10										12	
CO3			2														5				7	
CO4				2															3		5	
CO5					0																0	

Total Marks (In Words) :.........Twenty five.........

Total Marks 25

REMARK(s)

V. Good. Try to write the names of drugs correctly

Signature of the examiner:

Evaluated Answer Sheet is seen.
Signature of Examinee: chandan kr Gupta.

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- Fill all entries carefully.
- Follow the instructions given on question paper carefully.
- Write on both the sides of the answer sheet.
- Record the attendance carefully.
- Do not tear off any page from the answer book.

Session 20..23.. – 20...24...

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	06/11/23	Day	Monday
Shift	IInd	Course	B-Pharma		
Student's Name	Divyansh Tyagi	Roll Number	2 1 1 0 3 4 0 5 0 0 0 5		
Father's Name	Mr. Rajendra Tyagi	Branch (if any)	Pharmacy		
Subject Code	B P 5 0 5 T	Semester/Section	V+R		
Subject Name	Pharm. Jurisprudence	Room Number	E-208		
Signature of Candidate	Tyagi	Signature of Invigilator	Tajal 06/Nov/23		

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1	2	2														5					9	
CO2			2	2							10										14	
CO3																					—	
CO4																	3				3	
CO5					2																2	

Total Marks (In Words) : ....

Total Marks 28

REMARK(s)	Signature of the examiner: *Sneha*
Excellent :)	Evaluated Answer Sheet is seen. Signature of Examinee: *Divyansh Tyagi*

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TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	6/11/23	Day	monday
Shift	2nd	Course	B. Pharma
Student's Name	Ajay kumar	Roll Number	2 1 1 0 3 4 0 5 0 0 0 5
Father's Name	Santoosah	Branch (if any)	B. Pharma
Subject Code	BP 5 0 5 T	Semester/Section	5th
Subject Name		Room Number	P-208
Signature of Candidate	Ajaykumar	Signature of Invigilator	Sajal 06/Nov/23

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1	2	1														5					8	
CO2			2	2							10										14	
CO3																					—	
CO4																4					4	
CO5				2																	2	

Total Marks (In Words) : ....

Total Marks 28

REMARK(s)	
Excellent	Signature of the examiner:
	Evaluated Answer Sheet is seen. Signature of Examinee: Ajay Kumar

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Total = 55   E-106-III-16

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TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	06/011/23	Day	Monday
Shift	1st	Course	B. BPharm
Student's Name	Abhinav Aditya	Roll Number	2 2 0 2 9 2 0 5 0 0 0 0 1
Father's Name	Shashi Bhushon kr	Branch (if any)	Pharmacy
Subject Code	BP 3 0 1 T	Semester/Section	3rd
Subject Name	Phorm. Organic Chem	Room Number	E-106
Signature of Candidate	A	Signature of Invigilator	06/11/23

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1		2		2																	4	4
CO2																	5				5	5
CO3			2																		2	2
CO4	2				2										5						9	9
CO5											9										9	10

Total Marks (In Words) :....Twenty nine only....

Total Marks   29 / 30

REMARK(s)	Signature of the examiner:
Good.	Evaluated Answer Sheet is seen. Signature of Examinee:

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Session 20 ...23... - 20 ...24...

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	05/06/24 DAY Wednesday
Shift	1st	Course	B.tech
Student's Name	Aman Kumar	Roll Number	2 2 0 2 9 2 1 5 3 0 0 0 5
Father's Name	Raj Kishor Sah	Branch (if any)	C.SE (AI/ML)
Subject Code	B C S - 4 0 3	Semester/Section	4th , 'B'
Subject Name	JAVA	Room Number	F-210
Signature of Candidate	Aman Kumar	Signature of Invigilator	

FOR THE USE OF EXAMINER

COs	Section - A										Section - B					Section - C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1	0.5	01	01	01	01						02										6.5	7.5
CO2												1.5		4							5.5	7.5
CO3													01	01							02	05
CO4																						
CO5																						

Total Marks (In Words) ......One Four...............

Total Marks 14

REMARK(s)	Signature of the Examiner : Aman
	Evaluated Answer Sheet is seen Signature of Examinee :

(13/20) Kumarl

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Examination (tick)	Sessional / PUT	Date	05/06/24 DAY Wednesday
Shift	1st	Course	B. Tech
Student's Name	sanjana Raj	Roll Number	2 2 0 2 9 2 0 1 0 0 0 9 7
Father's Name	Mrigendra Kumar	Branch (if any)	C.S.E.
Subject Code	B C S 4 0 3	Semester/Section	IVth 'B'
Subject Name	OOP with java	Room Number	F-107
Signature of Candidate	sanjana Raj	Signature of Invigilator	Gosiya 05/06/24

FOR THE USE OF EXAMINER

COs	Section - A										Section - B					Section - C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1	01	01	01		01						02										06	7.5
CO2												01		04							05	7.5
CO3													02								02	05
CO4																						
CO5																						

Total Marks (In Words) One Three	Total Marks	13

REMARK(s)	Signature of the Examiner :
	Kumarl Sanjana
	Evaluated Answer Sheet is seen Signature of Examinee :

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Session 20 .23... - 20 .24

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	24/07/24 DAY Wednesday
Shift	I	Course	B.tech
Student's Name	Sudhanshu - Gupta	Roll Number	2 3 0 2 9 2 0 1 0 0 1 4 4
Father's Name	Mr. Sheetla Prasad	Branch (if any)	CSE
Subject Code	B A S 2 0 L	Semester/Section	II / O
Subject Name	ENG. Physics	Room Number	C- 305
Signature of Candidate	Sudhanshu - Gupta	Signature of Invigilator	

FOR THE USE OF EXAMINER

COs	Section - A										Section - B					Section - C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1					2								3	5					6		16	
CO2			2							5								7			14	
CO3		1											1						2		03	
CO4			2		2													6			10	
CO5	1	0																	6		07	

Total Marks (In Words) 50/50

Total Marks 50/50

REMARK(s)	Signature of the Examiner :
	Sudhanshu
	Evaluated Answer Sheet is seen Signature of Examinee :

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8 pages

Session 20 23 - 20 24

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	27/07/24 DAY Wednesday
Shift	I	Course	Btech
Student's Name	Jay DHANIYAN	Roll Number	
Father's Name	Roshanlal	Branch (if any)	CSE
Subject Code	B A S - 2 0 1	Semester/Section	II O
Subject Name	Engineering Physics	Room Number	C-304
Signature of Candidate	Jay	Signature of Invigilator	

FOR THE USE OF EXAMINER

COs	Section - A										Section - B					Section - C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1	8					2					5		7						7		21	
CO2		1										6									07	
CO3			0															7		7	14	
CO4					2		2				5	2									07	
CO5																						

53/70

Total Marks 53/70

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INSTRUCTIONS FOR STUDENT

- Fill all entries carefully.
- Follow the instructions given on question paper carefully.
- Write on both the sides of the answer sheet.
- Record the attendance carefully.
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Session 20 ...23... - 20 ...24...

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	24/07/24	DAY	Wednesday
Shift	1st	Course	B·Tech
Student's Name	Himanshu Bhardwaj	Roll Number	
Father's Name	Niwash Sharma	Branch (if any)	C·S·E
Subject Code	B A S - 2 0 1	Semester/Section	2nd / 0
Subject Name	Physics	Room Number	C-304
Signature of Candidate	Himanshu Bhardwaj	Signature of Invigilator	

FOR THE USE OF EXAMINER

COs	Section - A										Section - B					Section - C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1					1						6			4							11	
CO2		2	1									7				6					16	
CO3	1																24				7	
CO4					1						7								6		14	
CO5	2			2															3		07	

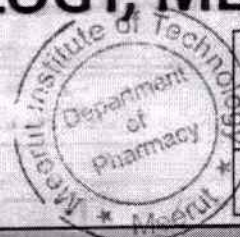Total Marks (In Words) 53/70

Total Marks 55/70

REMARK(s)

Signature of the Examiner :

Evaluated Answer Sheet is seen
Signature of Examinee :   Himanshu

(1)

MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

F - 107 - (4)

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TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	6/05/24 Day Monday
Shift	1st	Course	B-Pharma
Student's Name	Md. Naushad.	Roll Number	2 5 ... E E
Father's Name	Md. Ibrahim	Branch (if any)	B-Pharma
Subject Code	B P 2 0 2 T	Semester/Section	2nd Semester
Subject Name	Organic Chemistry	Room Number	E-107
Signature of Candidate	Md. Naushad.	Signature of Invigilator	Dwshi 6/5/24

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1	0	6									0	8									14	
CO2	0	2																			02	
CO3	0	7														0	4				06	
CO4																					00	
CO5																0	4				0 4	

Total Marks (In Words) : ....Twenty ~~five~~ six....

Total Marks 26

REMARK(s)	Signature of the examiner:
Can do more better in org. chemistry. Improve your mistakes.	Evaluated Answer Sheet is seen. Signature of Examinee: Md. Naushad.

MIT

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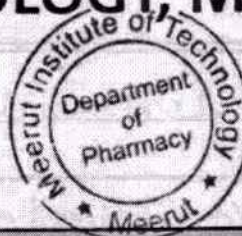
Examination (tick)	Sessional / PUT	Date	10/06/24 **Day** Monday
Shift	1st	Course	B Pharm
Student's Name	Faiza Kausar	Roll Number	2 2 0 2 3 2 0 5 0 0 0 17
Father's Name	Mol Zahid	Branch (if any)	B Pharm
Subject Code	B P 4 0 4	Semester/Section	2nd Session
Subject Name	Pharmacology	Room Number	E-106
Signature of Candidate	Faiza Kausar	Signature of Invigilator	Salim

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total	
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained	Max
CO1	2																				2	
CO2		2									7										9	
CO3			2													5					7	
CO4				0															4		4	
CO5					0																0	

Total Marks (In Words) : Twenty two

Total Marks 22/30

REMARK(s)	Signature of the examiner:
Prepare Short answer type question.	Evaluated Answer Sheet is seen. Signature of Examinee: Faiza Kausar

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V. Good / ARANA

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Session 20 .23......... - 20 .24........

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	8/5/24 DAY Wednesday
Shift	I	Course	B.SC Chemistry (Hons.)
Student's Name	Vidushi Sharma	Roll Number	2 3 1 1 0 0 0 8 0 3
Father's Name	Mr. Vinay Sharma	Branch (if any)	Chemistry
Subject Code	B C H - 2 0 4	Semester/Section	II
Subject Name	EVS	Room Number	005
Signature of Candidate	Vidushi	Signature of Invigilator	Hileso 8.05.24

FOR THE USE OF EXAMINER

COs	Section - A										Section - B					Section - C					Total Obtained	M
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	46	5
CO1	2		2		2												10					
CO2		1											5			10						
CO3				1								4						9				
CO4																						
CO5																						

Total Marks (In Words) ...... Forty - six ......

Total Marks 46

REMARK(s)

Signature of the Examiner : A Ran

Evaluated Answer Sheet is seen Signature of Examinee : Vidushi

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INSTRUCTIONS FOR STUDENT

- Fill all entries carefully.
- Follow the instructions given on question paper carefully.
- Write on both the sides of the answer sheet.
- Record the attendance carefully.
- Do not tear off any page from the answer book.

Session 20...23... – 20...24...

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	19-12-2023 **Day** Tuesday
Shift		Course	Bsc chemistry (Hons)
Student's Name	Lakshita Goyal	Roll Number	2 2 1 1 1 0 3 0 5 0 0
Father's Name	Mr Sunil Goyal	Branch (if any)	Chemistry
Subject Code	B C H - 3 0 1	Semester/Section	3rd
Subject Name	Inorganic Chemistry	Room Number	106
Signature of Candidate	Lakshitagoyal	Signature of Invigilator	Benny

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	Obtained
CO1	1															9			4		26
CO2			1	1							3						4				
CO3		1										2									
CO4																					
CO5																					

Total Marks (In Words) : Twenty – Six

Total Marks (26)

REMARK(s)

Work Hard

Signature of the examiner: WP

Evaluated Answer Sheet is seen.
Signature of Examinee: Lakshita

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INSTRUCTIONS FOR STUDENT

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- Write on both the sides of the answer sheet.
- Record the attendance carefully.
- Do not tear off any page from the answer book.

Session 20.23.. – 20.24...

TO BE FILLED BY STUDENT

		Date	22/12/23 Day Friday
Examination (tick)	Sessional / PUT	Course	
Shift	I	Roll Number	2 2 1 1 1 0 3 0 5 0 0
Student's Name	Aaditya chaudhary	Branch (if any)	Chemistry
Father's Name	Satyapal Singh	Semester/Section	III rd
Subject Code	B C H – 3 0 4	Room Number	106
Subject Name	Physics	Signature of Invigilator	
Signature of Candidate	Aaditya		

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total Obtained
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	42
											6					9 10 11 12 13	10				
CO1	2				2											7				8	
CO2			2	2							3										
CO3											4										
CO4		2																			40
CO5																					

Total Marks (In Words): 49/50   Forty two   **Total Marks**

REMARK(s)

V. Good,

Signature of the examiner:

Evaluated Answer Sheet is seen.
Signature of Examinee: Aadit

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Session 20..23.... – 20..24....

TO BE FILLED BY STUDENT

Examination (tick)	Sessional / PUT	Date	5/10/23	Day	Thursd
Shift	Ist	Course	BSC Honor's chem	
Student's Name	Pohan Kumar	Roll Number	2 2 1 1 1 8 3 0 5 0 0	
Father's Name	Sanjay Kumar .	Branch (if any)	Chemistry	
Subject Code	B C H 3 0 2	Semester/Section	IIIrd.	
Subject Name	Physical Chemistry	Room Number	106	
Signature of Candidate	Pohan Kumar	Signature of Invigilator	05.10.23.	

FOR THE USE OF EXAMINER

COs	Section-A										Section-B					Section-C					Total Obtained
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	1	2	3	4	5	
																		6			24
CO1	1											1					7				
CO2			1															5			
CO3		1										2									
CO4																					
CO5																			Total Marks		24

Total Marks (In Words) : Twenty - four

REMARK(s)

Work hard for better performance.

Signature of the examiner:

Evaluated Answer Sheet is seen.
Signature of Examinee: