Sample Question Papers containing Course Outcomes 2023-24



Meerut Institute of Technology (PC), Meerut

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
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)

	Ques. No.	(This section contains 5 questions, each carrying two mark. Answer Question	Should be brief) Course
	1	Define Pest.	Outcome
		कीट को परिभाषित कीजिए।	(CO1)
	2	Pest forecasting.	
		कीट पीडकों 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 & ETI	
		आर्थिक क्षति स्तर और आर्थिक सीमा स्तर की व्याख्या किजिए।	(CO3)
	5	Explain Insect Antifeedants	
-	I to a suppose	कीट अश्वानकी को प्रिकृतिक कि	(CO1)

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

No.	ction contains 3 questions you are required to attempt any 2 questions each of Question	arrying 5 ma	Course
6	What is pest Survey and Surveillance in agriculture crops?	1/2	Outcome
1	खेती में कीटों का सर्वेक्षण, निगरानी क्या है।	100	(CO2)
7	Describe in detail the Category of pests. कीटों की श्रेणियों का विस्तार से वर्णन किजिए।	171	i(CO2) - i
8	Describe in brief the symptoms of poisoning. विवाक्तता के लक्ष्णों का संक्षेप में वर्णन किजिए।		(CO2)

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

No.	ction contains 5 questions, you are required to attempt any 3 questions each carrying 10mi Question	Course
9	Define "IPM" Write in brief in concept of Integrated Pest Management. एकीकृत कीट प्रबन्धन को परिमाधित किजिए व उसकी संकल्पना का वर्णन किजिये।	Outcome (CO1)
10	Descibe in detail about the application techniques of spray fluid. स्प्रे दव की अनुपयोग 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 परिमाषित 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 प्रमावित करने वाले जैविक कारको का विस्तृत वर्णन किजिये।	(CO2)
13	(A)Describe the hormones. हारमोन्त 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)

Meerut Institute of Technology (PC), Meerut PUT Examination Even Sem. 2023-24 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)

Ques. No.	(This section contains 5 questions, each carrying two mark. Ans Question	wer should be brie	Course
1	What is hypertrophy and hyperplasia? हाईपरट्रोंपी और हाईपरप्लेसिया क्या है।		(COI)
2	Write the systemic position of Albugo Candida. ,लदुगो कोनिडिया की वर्गीकृत स्थान लिखिये।		(CO1
3	What is Facultative parasite and Facultative Saprophyte? ,छिक परजीवी और मुतोपजीवी क्या है।		(COI)
4	Write the shorts notes on ustilago. स्टीलेगो पर संक्षिता टिप्पणी लिखिये।		(CO1)
5	Write the short notes on Dr. E.J. Butler. डा० ई० जे० बटलर पर संक्षित्त टिप्पणी लिखिये।		(COI)

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

No.	Question Question		Course
6	Write the main characteristics and importance of Fungi. कवक के मुख्य लक्षण एवं महत्त्व लिखिये।	8	(CO2)
7	Difference between Endemic and Pandemic disease. स्थानीक और लंमदीत दीमारी के अन्तर लिखिये।	11.	(CO3)
8	Difference between Obligate parasite and Obligate saprophyte. वाध्य परजीवी और सपरोकाइट परजीवी में अन्तर लिखिये।	7 .9	(CO3)

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

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



Meerut Institute of Technology (PC), Meerut First PUT Examination Even Semester 2023-24

Name of the course: B.Sc. AG. (Hons.) II Sem.

Name of the subject: Fundamentals of Agricultural Extension Education

Subject code: AG- 208

Time Allowed: 3 Hours

Maximum Marks: 50

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?	COI
2	Marthandam Project? मर्थंडम परियोजना?	COI
3	Nilokheri Project? नीलोखेड़ी परियोजना?	CO1
4	I.R.D.P.? आई. आर. डी. पी. ?	COI
5	H.Y.V.P.? एच. वाई. वी. पी. ?	COI

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?	CO1
	शिक्षण तत्वों और सिद्धांतों का वर्णन करें?	
7	Describe the activities of Community development in India?	CO2
	भारत में सामुदायिक विकास की गतिविधियों का वर्णन करें?	
8	Jawahar Rojgar Yojana? जवाहर रोजगार योजना का वर्णन करें?	COI

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?	C01
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?	C01
11	What is community development? Discuss the principle of community development? सामुदायिक विकास क्या है? सामुदायिक विकास के सिद्धांत पर चर्चा करें?	C01
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? मृत्यांकन 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)

Question	Course Outcome
Write the botanical name of Lucerne	COI
Write the full form of IGFRI and IIPR	COI
Lentil contains% protein	COI
Frame the crop rotation of 200% and 250%	COI
Which type of protein is available in wheat	COI
	Write the botanical name of Lucerne Write the full form of IGFRI and IIPR Lentil contains% protein Frame the crop rotation of 200% and 250%

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	СО3

Meerut Institute of Technology (PC), Meerut PUT Examination Even Sem. 2023-24

Roll n.

Name of the course: B.Sc. Ag IV Sem.

Name of the subject: Problematic soil & Their management

Time Allowed: 3 Hours

Subject code: AG -404 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।	COI
2	Define Soil erosion मृदा अपरदन को परिभाषित करें	COI
3	Formula of SAR एस.ए.आर. का सूत्र	C01
4	Write the two negative impact of soil compaction. मुदा संघनन के दो नकारात्मक प्रभाव लिखिए।	COI
5	What is the soil Amendments? मुदा संशोधन क्या है?	C01

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?	C01
8	What is soil erosion? Explain the factors responsible for land degradation and its management. मुदा अपरदन क्या है? भूमि निम्नीकरण के लिए उत्तरदायी कारकों एवं उसके प्रबंधन की व्याख्या करें।	C01

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 Question	Course Outcome
9	Explain reclamation and management of saline and sodic soils. लवणीय एवं क्षारीय मृदाओं के सुधार एवं प्रबंधन को समझाइये	COI
10	Discuss soil quality and soil health issues मिट्टी की गुणवत्ता और मिट्टी के स्वास्थ्य संबंधी मुद्दों पर चर्चा करें	COI
11	Write about the distribution of waste and problem soils in India. भारत में अपशिष्ट और समस्याग्रस्त मिट्टी के वितरण के बारे में लिखें	COI
12	Describe the various criteria of evolution of irrigation water quality. सिंचाई जल की गुणवत्ता के विकास के विभिन्न मानदंडों का वर्णन करें।	vC01
13	What is the polluted soil? Type and management of polluted soil. प्रदृषित मिट्टी कौन सी है? प्रदृषित मिट्टी का प्रकार एवं प्रबंधन।	COI

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)

Question	Course Outcome
What is biotechnology	COI
What is DNA markers	COI
Explain totipotency	COI
What is artificial seeds	COI
What is cybrid	COI
	What is biotechnology What is DNA markers Explain totipotency What is artificial seeds

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।	COI
2	Define Atmosphere. वायुमंडल को परिभाषित करें	COI
3	Define Agri- Meteorology. कृषि-मौसम विज्ञान को परिभाषित करें	COI
4	Rain Gauge. वर्षा मापी यंत्र	CO1
5	Define Humidity. आर्द्रता को परिभाषित करें	C01

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?	COI
8	Define insolation? Explain the different factors of insolation. सूर्यातप को परिभाषित करें? सूर्यातप के विभिन्न कारकों को समझाइये।	COI

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।	COI
11	Enumerate the hydrological cycle with its component. जलीय चक्र क्या है इसके घटकों को सही बताइये।	COI
12	Define Condensation? Explain the form of condensation. संघनन को परिभाषित करें? संघनन का स्वरूप समझाइये।	COI
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?	COI

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

Name of the course: B.Com 5th sem Name of the subject: GST Time Allowed: 2^{1/2} Hours

Subject code: C010502 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 Outcom	
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: 11/2 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	COI
2	Differentiate between Positive Economics and Normative Economics.	CO1
3	Explain the properties of Indifference Curves.	COI
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?	COI
6	Explain the various degrees of price elasticity of demand	COI
7	Explain the Managerial uses of Price Elasticity of Demand	COI
8	Explain the any two Methods to calculate the Price Elasticity of Demand.	COI



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MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

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

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

Course/Branch

: B Tech - CS&E, CS&E (DS)

Semester

: V : 30

Subject Name

: Object Oriented System Design

Max. Marks Time

: 01:30 Hrs

Subject Code

: KCS-054

Note: Read instructions carefully.

Q.1: Attempt any All questions (Short Answer Type). Each question is of one mark.

 $(8 \times 1 = 8 \text{ Marks})$

Q.No.	Question	Knowledge Level	СО
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	СО
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	СО
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.	•	
Ron 140.		***************************************

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 : 30

Subject Name

: Object Oriented System Design

Max. Marks

: 01:30 Hrs

Subject Code

: KCS-054

Time

Note: Read instructions carefully.

Q.1: Attempt any All questions (Short Answer Type). Each question is of one mark.

 $(8 \times 1 = 8 \text{ Marks})$

Q.No.	Question	Knowledge Level	СО
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	со
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	СО
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	<u>CO, K</u>
	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		CO1, K1
Q No.3		CO1, K2
Q No.4		CO1, K1
Q No.5		CO1, K1
Q No.6		CO1, K1
Q No.7		CO1, K2
	Explain data Independence?	CO1, K2

Section B

Attempt ALL Questions each question carry THREE Marks.

[3*4=12]

Q.No	Question	<u>co, K</u>
	Discuss the role of database administrator?	CO1, K2
	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
		Q No.1 Discuss the role of database administrator? Discuss key and its type of key in brief? Q No.3 Explain the various attribute in ER model?

Section C

Attempt ALL Questions each question carry FIVE Marks.

[5*2=10]

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



292, MEERUTINSTITUTEOFTECHNOLOGY, MEERUT Pre University Test, Session 2023-24 B.TECH CSE (SEM V).Subject: DBMS Sub Code: KCS 501

Time: 03:00Hrs Max.Marks: 100

Note:AttemptallSections.

SectionA

Attempt all questions.	
Question	CO, K
What is Data Independency in DBMS?	CO1, K1
Write the difference between DDL and DML?	CO1, K2
What are different Integrity Constraints?	CO2, K1
Explain different Features of SQL?	CO2, K2
What are advantages of normalization?	CO3, K1
Write different Inference Rule for Functional Dependency?	CO3, K1
What is deadlock? How it can be detected and recovered?	CO4, K1
What are various reasons for transaction failure?	CO4, K1
List the various levels of locking?	CO4, K1
What are concurrent transactions?	CO4, K1
	What is Data Independency in DBMS? Write the difference between DDL and DML? What are different Integrity Constraints? Explain different Features of SQL? What are advantages of normalization? Write different Inference Rule for Functional Dependency? What is deadlock? How it can be detected and recovered? What are various reasons for transaction failure? List the various levels of locking?

Section B $3 \times 10 = 30$ Attempt any three of the following:

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, K
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, K
5.a.	What is a Conflict Serializable Schedule?	CO4, K
5.b.	Explain Deadlock Handling with Suitable Example?	CO4, K
6.a.	List ACID properties of transaction. Explain the usefulness of each. What is the importance of log?	CO4, K
6.b.	Explain any one Concurrency Control technique.	CO4, K



Section C

Attemp Q.No	Question	COK
4.110	The state of the s	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)	CO2, K
	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'.	
b.	IV. List title of all books and trell 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'. Define Key and Its types?	CO2, K1

	pt any one part of the following:	$1 \times 10 = 10$
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

	npt 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.

Attempt ALLQuestions, each question carry ONE Mark.

[1*5=5]

		CO
Q.No	Question	CO 2
Q No.1	Write Equation of One Dimensional Heat Equation.	CO 2
O 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 3
Q No.4	If Mean=24, Median=28 Find Mode.	CO 3
Q No.5	Write the relations between µr and µr'	1003

Section B

Attempt anyALLQuestions, each question carry2.5Mark.

[2.5*4=10]

Q.No			Ques	tlon	TOTAL DIST		co
Q No.1	Use method of s $z(x, 0) = 6e^{-5x}.$		and the second second				CO 2
Q No.2	Use method of s $u(x,0) = 3e^{-x} - e^{-x}$	5x				3u given that	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
Constitution Programme	x		3	9	12	20	

Section C

Attempt anyoneQuestions each question carry equal Marks.

[5*1= 5]

Q.No			Ques	tlon			CO
Q No.1		ution of One D					CO 2
Q No.2	data.	t square meth	od to fit the cu	rve of the form	n y=ab* to the	following	CO 3
	×	2	3	4	5	6	1
	У	144	172.3	207.4	248.8	298.5	1



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?	C01
Q No.3	What do you mean by regeneration?	C01
	What do you mean by critical pressure ratio of nozzle?	C01
Q No.5	Why convergent- divergent nozzle is mostly used in steam power plant?	C01

Section B

Attempt ALL Questions each question carry 2.5 Marks.

[2.5*4=10]

Question	CO
With the help of neat sketch, describe the working of a simple constant pressure Open cycle gas turbine, in brief.	CO2
What are the different types of nozzles? Explain briefly	C01
Explain the working of turbo jet engines with neat sketch.	CO2
Describe gas turbine cycle with reheat and regeneration.	CO1
	With the help of neat sketch, describe the working of a simple constant pressure Open cycle gas turbine, in brief. What are the different types of nozzles? Explain briefly Explain the working of turbo jet engines with neat sketch.

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



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292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

Second Sessional Examination, 2023-24 B.Tech. 4th Sem (ME) EM & SOM (BME 402)

	Time: 01:301	irs
of the late of the		
Max. Marks: 20		

Note: Attempt all Sections.

Section A

Attempt ALL Questions, each question carry ONE Mark.

[1*5=5]

ttempt AL	Ouestions, each question carry VAD 15 to 1	CO
	Question	
O.No	hatwaen truss and beam?	
Q No.1	What is difference between truss and beam?	
O No.2	What is unstable trusses?	5
O No.3	How many types of loads in beam.	5
O No.4	What is formula of cylindrical volumetric strain? What is formula of spherical volumetric strain?	
Q No.5	What is formula of spiterion B	12.5*4=101

Section B

Attempt ALL Ouestions, each question carry 2.5 Marks.

12.5*4=101

mptALL	Ouestions, each question carry 2.5 Marks.	CO
	Owertion	1
O.No	What is Classification of trusses? And neat sketch figure classification trusses.	1
Q No.1	What is Classification of trusses, the charge force, and bending moment.	
Q No.2	Write the Relationship between Load, shear force, and bending moment. Write the Relationship between Load, shear force, and bending moment.	1
Q No.3	Write the Relationship between Load, shear to F_1 & F_2 are 9 KN & 3 KN, For the truss as shown in figure 2.1., 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').	
	A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with water under $\frac{1}{2}$ A spherical shell of 1.2 m internal diameter and 6 mm thickness is filled with $\frac{1}{2}$ A spherical shell of 1.2 m internal d	5
Q No.4	A spherical shell of 1.2 m internal diameter and 6 mm thickness is lined with 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 $\mu = 0.3$.	
A	C stan C	15*1=5

Attempt any one Ouestion, each question carry equal Marks.

nptany	one Ouestion, each question carry equal Marks.	CO
O. No	Ouestion Determine the forces in all the members of the cantilever truss as shown in figure	
Q No.1	2.2 Fig 2.2 2.m Fig 2.2 Am year of the second of the s	1
Q No.2	Fig 2.1 Fig 2.1	5

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

2nd Sessional Examination, Session 2023-24

B.Tech.-IV Sem (ME)

Manufacturing Processes (BME- 403)

Manufacturing Processes (2	Time: 01:30 Hrs
Max. Marks: 20	
Note: Attempt all Sections (All Questions).	

Note: Wite!	prail 555.555 V	-1
	Section A [1*5=	_
A1	O with the coath question carry ONE Mark.	\dashv
Attempt AL	L Questions, each question Question	\neg
Q.No	1-5 CNC over NC machines? 5 grinding wheel. 3	-
Q No.1	What are the advantaged of CNC over NC machines? What are the advantaged of CNC over NC machines? 3 3 3	-
O No 2	Name the elements which are	-
Q No.3	Define Grinding Wheel. Define Grinding Wheel? 3	
Q No.4	Define Grinding Wheel. What is meant by hardness of grinding wheel? What is meant by hardness of grinding wheel.	
Q No.5	What is meant by hardness of granding wheel. Define bond in connection with grinding wheel.	

Section B

	~
h question carry 2.5 Marks.	C
Questions each question carry 2.5 Marks. Question Question Priefly explain its various	2
in all point cutting tool? Briefly	- 2
what do you diderstance? Solving produced during metal machining with near	-
Discuss the various types of chips produced	2
Write down the advantages, limitations and applications	- 2
Wing and down milling with a neat sketch.	
Explain up milling and do	
1	What do you understand by single point cutting tool? Briefly explain its various angles. Discuss the various types of chips produced during metal machining with neat sketch. Write down the advantages, limitations and applications of rapid prototyping. Explain up milling and down milling with a neat sketch.

Section C

Section C	[5*1=5]
Attempt Any One Questions each question carry equal Marks. Ouestion	CO
Attempt Any One Question O. No O. No. O. No. Consider the various forces acting on the chip, draw Merchant force diagram.	2
	3
O No.2 What is meant by grit, grade and structure of grinding wheel.	

Q No.1		3
	What is meant by grit, grade and structure of grinding wheel. OR	
Q No.2	What is incame by gard on OR	
	Explain different types of bonds and abrasives used in a grinding wheel?	
	Explain unrecess 77	



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)

Max. Marks: 20

Time: 01:30 Hrs.

Note:

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

Section A

Attempt ALL Questions, each question carries ONE Marks.

[1*5=5]

tempt ALL	Questions, each questions	<u>co</u>
	Question	CO-2
Q. No.	Explain iterative statement and write their syntax	CO-2
Q No.1	Define conditional statement and write their syntax.	CO-2
Q No.2	Define conditional statement and write their syntax.	CO-1
Q No.3	Define transfer statement and write their syntax. Define transfer statement and write their syntax. (True/False)	
Q No.4	Define transfer statement and write trick of the statement and write trick of the statement is always optional. (True/False) Else block or else statement is always optional. (True/False) Write a python program to check whether the given number is odd or even?	CO-3
Q No.5	Write a python program to check whether the given	

Section B

Attempt ALL Questions each question carries 2.5 Marks.

[2.5*4=10]

empt ALL	Questions each question camps at	CO
Q. No.	Question Write a python program to print maximum and minimum number among the	CO-3
	given three number.	CO-3
	Write a python program to check whether the given number is per 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) Write a python program to check whether the given number is palindrome or	CO-3
Q No.3	Write a python program to check whether the given the	CO-3
Q No.4	Create a python program to print Fibonacci series.	

Section C

Attempt ANY ONE Questions each question carry EQUAL Marks.

[5*1=5]

mpt Aiv	Y ONE Questions e	Questio	n	CO
<u>Q. No.</u> Q No.1	not. b) Write a py	thon program to check wh	ether the given number is prime or ether the given number is	CO-3
Q No.2	Armstrong Write a python pro 1) AAAAA AAAA AAA AAA AAA	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*****



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292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT (College Code : 292) Second Sessional Examination, Session 2023-24 B.Tech.-4th, Sem (305) S+ ME+ECE+CE) Universal Human Values (BVE-401)

Max. Marks: 20

Time: 01:30Hrs.

Note: Attempt all Sections.

Attempt ALL Questions, each question carry ONE Mark.

[1*5=5]

	Question	CO
Q.No		C01
	Describe Human needs.	C01
Q No.2	Enumerate Safety needs.	C01
Q No.3	What is self-actualization.	C01
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]

Question		<u>co</u>
No		CO5
No.1	In detail explain 'Sanyama'.	CO4
No.2	Talk about the aspects of 'Sanyama'.	CO5
10.3 E	Explain 'Swasthya' in detail.	CO4
No.4	What are the obstacles in the path of self-control.	004
No.4	Explain 'Swasthya' in detail. What are the obstacles in the path of self-control.	

Section C

Attempt any one Question each question carry equal Marks.

[5*1=5]

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

BEST OF LUCK



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

4

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.	C01
b.	Define degree of reaction.	CO1
c.	What do you mean by effectiveness of regenerator?	C01
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?	C01

Section B

2 Attempt any three of the following:

[7*3=21]

Q.No.	Question		
a.	What do you understand by compounding of steam turbines? Describe different typesof compounding of steam turbines with appropriate diagram.		
b.	Distinguish between Fire tube &Water tube boiler.	C01	
c.	With the help of neat sketch, describe the working of a simple constant pressure open cycle gas turbine, in brief.		
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			
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 output of 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:



292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT Pre University Test, Session 2023-24

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

Semester: IV

Max. Marks : 70

Section - A # 14 Marks (7 x 2=14 Marks)

Attempt ALL the questions. Question

Q No I COx (d) CO3 Write the normal equations of multiple linear regression of Y on Z and X (c) CO4 Define t-test with formula. (g) CO5 Define control limits of R-chart (f) CO5 Explain null Hypothesis (c) CO2 Classify the following partial differential equations $t_{a} \cdot t_{rr} = 0$ (b) COI Determine the partial Differential Equation from the equation z = f(2x-y)(a) CO1 Solve (D4+D")z=0.

Section - B # 21 Marks

(7a 3 =21 Marks)

Q.I(COI) Solve the following partial differential equation by using Charpit's method: Attempt Any Three questions.

 $z^2 = pqxywhere = \frac{\alpha r}{\delta x}, q = \frac{\alpha r}{\delta x}$

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

probability that out of 5 such bulbs (I) none (II) at most one (III) more than one (IV) at least one will fuse after Q.4 (CO.4) The probability that a bulb produced by a factory will fuse after a use of 150 days is 0.5, Find the first four moments about mean and origin.

150 days of use.

No. of 25 defectives	Samples 1
20	2
19	3
21	4
24	5
16	6
15	7
20	00
Ta	9
	10

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

Section - C # 50 Marks

(715 - 35 Marks)

Attempt ALL the questions.

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

(b). Solve r +8 -21 = (2x+y)1/2 (a). Solve (x3-yz)p + (y3-zx) q = z3-xy Q.6 (CO-1): 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 $\frac{\partial^2 x}{\partial x^2} + \frac{\partial^2 x}{\partial y^2} = 0$ 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 > 0 6 42 0

(b). Use the least square method to fit the curve of the form yeab* to the following data Mathematics Statistics 8 25 30 10 15 32 35 17 37 20 23 24 45 I 25

(a). The number of accidents in a year involving taxi drivers in a city follows a Poisson distribution with

ī

172.3

207.4

248.8

mean equal to 3. Out of 1000 taxl drivers, find approximately the number of drivers with (i) no accidents 3 more than 3 accidents in a year.

(b). In a sample of 1000 cases, the mean of a certain test is 14 and 5.D is $\frac{5}{2}$. Assuming the

(i) How many students score between 12 and 157 distribution to be normal, find

(ii) How many score above 18?

(iii) How many score below 87 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.

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

Eye calor of Not Light Light Eye color of son Light 148 471 Not Light 230

[GivenX 0.05(1)=3.841

(b). Distinguish between np-chart and C-chart-following is the data of defectives of 10 samples of

size 100 each whether the process is in statistical control.

5 12 8 8 16 13	n	9	6	No. of defectives
0	w	2		Sample No.

All the best

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292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

PUT STECH (SEM IV) THEORY EXAMINATION 2025-24 ENGINEERING MECHANICS

Time: 3 Hours

3.

Total Marks: 70

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

SECTION A

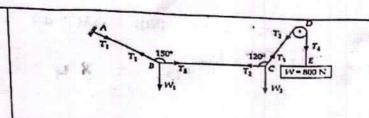
Atter	npt seven questions in brief.	2X/-14
No	Quest	CO
	ions	
(a)	State the principle of transmissibility of force.	1
(b)	What is a free body diagram?	1
(c)	List the assumptions used in the analysis of a truss.	1
(d)	Explain the following terms. (i) Coefficient of friction. (ii) Angle of repose.	1
(e)	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

Q no	npt any three of the following:	7x3 = 30
		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 aninternal fluir pressure of 1.2 N/mm2. Determine:	d 5
	Longitudinal stress developed in the pipe, and	
	b. Circumferential stress developed in the pipe.	

SECTION C

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:	1
	(i) The tensions in portions AB, BC, CD and DE of the string. (ii) The values of weights W1 and W2.	



Attempt any one part of the following:

Questions

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.

(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

5. Attempt any one part of the following:

THEN	Ouestions	CO
Qno		3
(a)	Derive the pure torsion equation where symbols has usual meaning	
	$\frac{T}{I} = \frac{\tau}{R} = \frac{G\theta}{L}$	
	A solid shaft of 200 mm diameter has the same cross-sectional area as the hollow shaft	3
(b)	Powers transmitted by both the shafts at the same angular velocity. Angles of twists in equal length of these shafts, when stressed to same	
110	intensity. 7x1	=7

6. Attempt any one part of the following:

Questions

At the part of the following:

Questions

Questions

Questions

At the part of the spring of round steel wire 10 mm in diameter and 10 4 and subjected to an axial load of 200 not part of the spring (a) deflection of the spring (b) stiffness of the spring (c) maximum shear stress and (d) strain energy stored in spring.

	(d) strain of the following:	CO
Atten	Questions Questions Questions Derive the expression for circumferential stress and longitudinal stress for athin	5
(a)	Derive the expression for shell subjected to an internal pressure. A cylindrical pipe of diameter 1.5 m and thickness 1.5 cm is subjected to an internal and thickness 1.5 cm. is subjected to an internal and thickness 1.5 cm.	5
1	A cylindrical pipe of diameter final	



Department of Computer Science & Engineering Meerut Institute of Technology, Meerut PUT Examinations (EVEN Semester 2023-24)

Subject: Python programming (BCC 402)

Course: B. Tech - DS/EC/CE/ME (4th Sem)
Duration: 3:00 Hrs.

M: 70 Duration: 3:00

	Q.1. Section - A	COs	M
S.No.	Questions	1	1
3.	Write two application of python programming.	i	1
ь.	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()	3	1
c.	Write the syntax of list slicing.	2	i
f.	Explain role of seek() and tell() methods.	2	1
g.	Define floor division.	1	1
h.	What is difference between local variable and global variable?	2	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	i
1.	Write the argument of write and writelines function function.	2	1
m.	What are widgets in GUI?	-	1
n.	Write a python program to count the number of consonants in the given string.	1	' '
	Section - B		
S.No.	Ouestions	COs	MN
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.	_	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	MN
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.	4	7
	Write a program factors(N) that return a list of all positive divisors of N (N>=1).	2	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	
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	5	7
	exchanged.	3	7

a) Write a python program to check whether the given year is leap year or not.

length where kth element is pair with kth element of the list from the input list.

Write a function make pairs that takes as input two list of equal length and return a single list of same

b) Write a python to remove duplicate element from list.

Or

Meerut Institute of Technology, Meerut

Department of Mechanical Engineering -PUT Examinations 2023-24 (Even Sem.)

B.Tech. ME (SEM 4TII).

Subject: Manufacturing Processes,

Sub Code: BME-403

MM:70

Note: All questions are compulsory.

Duration: 3:00 Hrs

Q.1.

Section - A

S.No.	Questions		
a.	Differentiate between one 11 6	COs	MM
b.	Differentiate between open die forging and closed die forging? Why machining allowance is provided in casting.	1	1
c.	Differentiate between glazing and loading in grinding.	1	1
d.	Discuss the purpose of welding flux used in SAW process.	3-	1
e.	What is the difference between autilities the difference between autilities and in SAW process.	4	1
f.	What is the difference between cutting tool and machine tool? Differentiate between wire drawing and extrusion.	2	1
g.	Explain friability in grinding.	1	1
h.		3	1
i.	single point and multi point cutting tool.	2	1
ı.	What are the various consumables used in arc welding processes?	4	1
1.	How non-conventional machining differs from conventional machining process?	5	1
k.	Why abrasives are not recycled in abrasive jet machining?	5	1
1.	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

.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



Department of Computer Science & Engineering Meerut Institute of Technology, Meerut PUT Examinations Even Semester 2023-24

DATE OF EXAM:BVE 401
Total Marks: 70. Time: 3 Hrs. Student's Name:BVE 401

Section (A)

Student's Name:

Messe Lectron os Tecamor

Q.1 Attempt all parts in brief.

(2X 7= 14)

01 pescribe the term "Nature". Express the term 'submergence' with reference to List the two instances of conflicts when our activities complementary to each other? List any two criteria for the humanistic management Define the excellence. Is working for competition the because of operating on Write the two problems that we are facing today because of operating on the basis of preare not guided by our natural acceptance. List the domains of educations and how are they coexistence in existence. conditioned desires. Question 2 Marks CO

Section (B)

(3X 7= 21)

Q.2 Attempt ANY THREE parts.

Question Question Question Differentiate between prosperity and wealth. Describe the prevailing notions of happinest, prosperity and its consequences. Describe the correlation between Sanyam and Swasthya. Describe the correlation between Sanyam and Swasthya. To Suggest any two programs that you can undertake to improve the health of your body. Explain the feelings of care and guidance, glory, reverence and gratitude. "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? Explain the meaning of profession and explore the need 7 Explain the meaning of profession and explore the need
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7

O 3 Attempt ANY ONE part

PUT Examinations Even Semester 2023-24 Section (C) (1X 7= 7)

Department of Computer Science & Engineering

Meerut Institute of Technology, Meerut

	è			0.3	
THE MEN IS NOT THE PARTY OF THE	Explain the content and process of sen exploration, story do our preconditioning hinder this process? Justify your answer with one example.	development.	Analyze the term 'Holistic Developmen' Common analyze the role of Education-Sanskar in holistic	Question Critically	Organia
		7		7	Marks
(1X 7= 7)		_		_	00

, o =		ا د ت د	0 4	
Discriminate the response of the 'Sell' from the response of the 'Body'. Elaborate with the example how response of the Self will be definite with the knowing in the self.	Sell can be ensured by way of Sen with	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 discussed in the course. How the harmony in the	Cuchanh	
	1			Marks
1 (C=CXX)	2		3	00

(1 = / XI)		AND ONE THE
	yone has	b. 'Every human being is similar to me, explain use statement. How respect can be ensured if everyone has different competence?
3	7	to human goal with its outcome.
	ith respect	examine the goals of the present-day society with respect
3	tically 7	0.5
Marks	981	Question

uman order qualitatively different from ee orders? ning of co-existence. How are units in g in space? Question ework for humanistic education for t a few ways to modify present das		þ
uman order qualitatively different from ee orders? g in space? Question April 2 Marks	Children. Suggest school education	•
uman order qualitatively different from ee orders? g in space? (3)		0.7
7	Q.7 Attempt ANY ONE part	Q.7 Atten
the human order qualitatively different from three orders?	Describe the n co-existence b	ŗ
clivities in the foll official of the matthe, more	Explain the activities in the are the activities in the human order those of other three orders?	P
Question How 7		0,6

- Fad-

E

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT First Sessional Examination, Session 2023-24 B.TECH CSE/ME/CE/EC 3 YEAR (SEM VI)

Subject: INDIAN TRADITION AND CULTU	JRE SOCIETY SUB Code: KNC-602
Max.Marks: 30	Time: 01:30Hrs
Note: Attempt all Costions	

The Royal Control of the Control of	
	Contina
	Section

lempt all questions.	8x1=8
Question	CO
What is ancient India? Define the term culture, tradition and society.	CO1
What is kinship?	CO1
Define term slavery.	CO1
Discuss the term Marriage.	CO1
Discuss the statement gender as a social category.	CO1
What is untouchability?	CO1
What is slavery? Name the types of slavery.	CO1
What is administration?	CO1
	Question What is ancient India? Define the term culture, tradition and society. What is kinship? Define term slavery. Discuss the term Marriage. Discuss the statement gender as a social category. What is untouchability? What is slavery? Name the types of slavery.

Section B

2. Att	empt 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
h	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.	C01	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
The state of the s	Discuss the duties of the king mentioned in chanakya's Arthashastra.	C01	3
ŀ	Discuss the political ideals in ancient India.	CO1	3

5. Attempt any one part of the following:

Q.NO	Question	CO	MM
а.	Discuss four classes of classification. Explain	C01	3
b,	Discuss the representation of women in historical tradition.	CO1	3

Section C

5. Atten	Attempt any one part of the following:		ř.
Q.No	Question	co	MM
	What is Varnāshrama 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
	What is Saptanga theory? Discuss this theory in detail	C01	5
b	What is state in ancient India? Discuss the stage formation in ancient India	C01	5

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292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT

First Sessional Examination, Session 2023-24

B TECH CSE/ME/CE/EC 3 YEAR (SEM VI)

B.TECH CSE/ME/CE/EC 3 YEAR (SEM VI)
Subject: INDIAN TRADITION AND CULTURE SOCIETY SUB Code: KNC-601

Odoject.	INDIAN TRADITIONAL COLUMN	T1 04.20U.m
Max.Marks: 30		Time: 01:30Hrs
Max.marks. 50		

Note: Attempt all Sections.

Section A

8x1=8
AXI-O

Q.No	empt all questions. 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
q.	What is slavery? Name the types of slavery.	CO1
	What is administration?	CO1

Section B

4 - fall - fallowing	4x3=12
2. Attempt any one part of the following:	CO

	Question	<u>co</u>	IVIVI
Q.No	Discuss four Purusharthas as a fundamental principle of human being life.	CO1	3
a.	Discuss four Purusnarmas as a fundamental principle of human states	CO1	3
b.	Discuss council of ministers in ancient India	100.	

3 Attempt any one part of the following:

3. Attempt any one part of the form		CO	MM
Q.NO			-
a.	Discuss different types of Marriage in ancient India.	CO1	3
	Discuss the challenges faced by women in ancient India	CO1	3
h	Discuss the challenges faced by worter in ancient meio		

4. Attempt any one part of the following:

Q.NO	Question	CO	MM
Q.NO	a Discuss the duties of the king mentioned in chanakya's Arthashastra.	CO1	3
	b Discuss the political ideals in ancient India.	C01	3
AL IN	b Discuss the political ideals in direction		

5 Attempt any one part of the following:

Q.NO	Question	CO	MM
4.1.0	Discuss four classes of classification. Explain	C01	3
	Discuss the representation of women in historical tradition.	C01	3

Section C

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

Q.No	Question	co	MM
	What is Varnāshrama system? Discuss the stages of life in detail.	CO1	5
	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
а	What is Saptanga theory? Discuss this theory in detail	CO1	5
	What is state in ancient India? Discuss the stage formation in ancient India	CO1	5

292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT First Sessional Examination, Session 2023-24 B.TECH CSE/ ME/CE/ EC), 3 YEAR (SEM VI) Subject: IDEA TO BUSINESS MODEL SUB Code: KOE-060

Max.Marks: 30

Note: Attempt all Sections.

Time: 01:30Hrs

	Section A	8x1=8
	empt all questions.	CO
Q.No	Question	
a	What is idea?	CO1
b	1-10	CO1
	What is business model?	CO1
C	What is production planning?	CO1
d	What is product and service?	CO1
e e	What is creativity?	
f	What is product adoption lifecycle?	CO1
	How will you define the risk	C01
g	How will you define the field	CO1
h	Define entrepreneur.	

Section B

	empt any one part of the following: Question	CO	MM
Q.No		CO1	3
а	What is innovative idea and business idea? How to search a business idea	CO1	3
h	Write a note on creativity and design thinking with suitable example.		-

3. Attempt any one part of the following:

Q.NO

Question
Question
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
Q.NO

What is product innovation? Discuss the 7 steps of Production, Planning, and Development Strategy.

b. What is idea generation? Discuss the stages in creative process.

COI 3

5. Attempt any one part of the following:

Q.NO

Question

Question

A. What is adoption process? Explain the stages of adoption process.

D. What is product adoption curve? Discuss kind of metrics we use to analysis and improve product adoption

Section C

6. Attempt any one part of the following:

Q.No

Question

Question

Question

Ab. What is entrepreneurship? Elaborate types of entrepreneurs

b. What things influence the product adoption rate and what business can do to improve product

CO1 5

Adoption

7. Attempt any one part of the following:

Q.NO

Question

Question

CO

MM

a. What is an entrepreneur? Discuss the characteristics of entrepreneur

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)

Max. Marks: 20

Note: Attempt all Sections.

Time: 01:30 Hrs

Section A Attempt ALL Questions, each question carry ONE Mark.

[1*5=5]

	Overtion	CO
Q.No	Question	1
Q No.1	Define the term entropy in short.	1
Q No.2	Explain electromagnetic radiation in short.	1
O 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]

Overtion	CO
	1
Derive time independent Schrodinger wave equation.	
	1
Show the radioactivity decay follows exponential favor	
of puolest fusion and fission in detail.	2
Explain the phenomenon of nuclear rusion and the total hinding energy per	2
What do you mean by binding energy? What is the total binding energy production for the 17Cl ³⁵ nucleus?	
	Show the radioactivity decay follows exponential law. Explain the phenomenon of nuclear fusion and fission in detail. Explain the phenomenon of nuclear fusion and fission in detail.

Section C Attempt any one Question, each question carry equal Marks.

[5*1=5]

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



292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT First 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).

Attempt ALL Questions, each question carry ONE Mark.

[1*8=8]

	Question	CO
Q.No		C01
Q No.1	Define heat transfer?	C01
Q No.2	What is thermal resistance?	C01
Q No.3	Define convection heat transfer coefficient	CO1
- W 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.	C01
O No 7	What do you mean by steady heat conduction?	C01
Q No.8	Define thermal conductivity of a material.	- 00.

Section B Attempt ALL Questions each question carry THREE Marks.

[3*4=12]

	Question	<u>co</u>
Q.No		CO1
Q No.1	What is Fourier's law of conduction?	CO1
Q No.2	Explain briefly the various modes of heat transfer.	
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°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.	C02
Q No.4	lustrial 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

Attempt ALL Questions each question carry FIVE Marks.

[5*2=10]

	Question	CO
Q. No		C01
	Derive general heat conduction equation in Cartesian coordinates. 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,	CO2
	Calculate: (i) the temperature at the centre of the plate (ii) the position and value of maximum temperature	



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

Max. Marks: 30

Time: 01:30 IIrs

Note: - Attempt all sections.

4	SECTION-A Attempt ALL questions each carry ONE marks	(1 x 8=08)
1	What is rural development?	COI
2	What are the basic elements of rural development?	COI
3	What are the problem /challenges faced by rural people in rural development?	COI
•	What is Paramparagat Krishi Vikas Yojana?	COI
4	What is Jawahar Rozgar Yojana? Explain two objectives.	COI
6	What is Indira Awas Yojana?	C01
7	What is Minimum Need Program?	
8	Write the full form of MNREGA	

T	SECTION-B	
Att	tempt 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	C01
	development? What is Pradhan Mantri Fasal Bima Yojana? Discuss in detail	COI
2	What is Pradhan Mantri Fasai Billia Tojalia: Disease in detail Describe in detail any one program or policy undertaken by government of India for rural	COI
3		COI
4	Explain watershed development project in Rain fed areas and its objective	1

	SECTION-C	
At	tempt ALL questions each carry FIVE marks	2=10)
1	What is Mahatma Gandhi national rural employment guarantee act (MNREGA)? Discuss objective and goals of MNREGA	COI
2	Enlist the various policies and program undertaken by government of India for rural development in agricultural sector.	COI



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

Max, Marks: 30
Note: - Attempt all sections,

Time: 01:30 Hrs

	SECTION-A Attempt ALL questions each carry ONE marks	(1 x 8=8)
	Attempt ALL questions caun carry one mans	
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	
Δŧŧ	empt ALL questions each carry THREE marks. (3x 4=1	2)
		CO2
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	Tarit Land on Srinkeran expellitions.	COS
4	Describe the need for non-government organization working in the field of rural development	

	SECTION-C	
A	ttempt ALL questions each carry FIVE marks (5 x 2=	
	Describe the structure of Panchayati raj institution in India along with the role and	000
1	functions of each level. Describe the role and functioning SHGs in rural development.	CO2
2	Describe the role and functioning of its investigation	



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).

Attempt ALL Questions, each question carry ONE Mark.

[1*8=8]

- N- I	Question	CO
Q.No		C01
Q No.1	What is meant by transient heat conduction?	CO1
Q No.2	Define efficiency and effectiveness of the fin.	
Q No.3	Explain Newton's law of cooling.	CO1
O No A	What do you understand by overall heat transfer coefficient?	CO1
O No 5	Why are fins installed in electric motor?	CO1
O No 6	How heat exchangers are classified?	CO1
Q No.7	Define boiling and condensation.	C01
O No 8	What do you mean by NTU.	C01

Attempt ALL Questions each question carry THREE Marks.

[3*4=12]

Q.No	Question	CO2
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°C to 50°C by 8000 kg/h of water entering at 25°C. Determine the heat exchanger area for an overall heat transfer	
Q No.2	A very long 1 cm diameter copper rod (k=377 W/m K) is exposed to an environment at 22°C. The base temperature of the rod is maintained at 150°C. The heat transfer coefficient between the rod to the surrounding air is 11	CO2
Q No.3	A steel ball, 5 cm in diameter initially at a temperature of 450°C is suddenly placed in a controlled environment in which the temperature is maintained at 100°C. Calculate the time required for the ball to attain a temperature of 150°C taking the following property values For steel: k = 35 W/mK, C =0.46 kJ/kg k,p = 7800 kg/m³Convection heat transfer coefficient = 10 W/m² K.	CO2
Q No.4	Derive the relation: $\frac{t-ta}{tz-ta} = exp\left[-\frac{hA}{pVc}T\right]$	CO2

Section C Attempt ALL Questions each question carry FIVE Marks.

[5*2=10]

O No	Question	CO
Q. No		CO2
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.	002



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)

friend was

Max. Marks: 20

Time: 01:30Hrs.

Note: Attempt all Sections.

Section A

Attempt ALLQuestions, each question carry ONE Mark.

[1*5=5]

	Ougetton	CO
Q.No	Question	CO2
Q No.1	Describe Resume writing?	CO2
Q No.2	List the differences between Resume and CV	CO2
O 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 anyALLQuestions, each question carry2.5Mark.

[2.5*4=10]

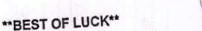
	Question	CO
Q.No		CO2
Q No.1	In detail talk about Networking and how it affects communication	CO3
Q No.2	What are the characteristics of a Pitch Deck and list its benefits	CO3
Q No.3	Elucidate the nuances of speech delivery	CO2
Q No.4	What do you understand by the term Effective profiling	100

Section C

Attempt anyoneQuestions each question carryequalMarks.

[5*1=5]

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





292, MEERUT INSTITUTE OF TECHNOLOGY, MEERUT Second Sessional Examination, Session 2023-24 B.Tech.-VII Sem (ME) Additive Manufacturing - KME(071)

Time: 01:30 Hrs Max. Marks: 30

Note: Attempt all Sections (All Questions).

Section A

npt ALL	Questions, each question carry ONE Mark. Question	CO
Q.No		3
No.1	What do you mean by photo-polymerization.	3
O No.2	Write down the advantages of Vat Photo-polymerization.	3
O No.3	What is a Bio-plotter.	3
O No 4	Define Powder Recycling?	4
O No S	Write a short note on co-producing.	4
O No.6	List out the various materials available for AM?	4
O.No.7	What is STL file.	4
ONO	B Explain the self customization.	

Section B

Section D	[3*4=
Duestions each question carry THREE Marks.	CO
	3
Describe the step by step process of Material Jetting.	3
What are the various parameters on which the path conditions the depends?	4
What is the role of 3D solid modeling solivate or the	4
Explain how to create STL files from CAD system.	4
	Describe the step by step process of Material Jetting. What are the various parameters on which the path control in extrusion based system depends? What is the role of 3D solid modeling software CAD in additive manufacturing?

Section C

Section C	[5*2=10]
n carry FIVE Marks,	CO
Question Question (DED) process of additive ma	nufacturing. 4
es and disadvantages.	
	Section C n carry FIVE Marks. Question Energy Deposition (DED) process of additive mages and disadvantages.

Also give its advantages	parts from STL file in which files can be defined for creations of	3
	to from STI, file in which files can be defined for creations of	
No 2 What are other ways a	parts from 512	
the slice?		



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

Computer Integrated Manufacturing - (KME051)

Max. Marks: 30

Note: Attempt all Sections (All Questions).

Time: 01:30 Hrs

Section A

Attempt ALL Questions, each question carry ONE Mark.

11*8=81

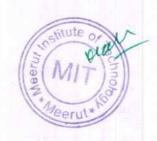
Q.No	Question	CO
Q No.1	What is numerical control?	3
Q No.2	What is CNC?	3
Q No.3	What are the advantages of GT?	3
Q No.4	Name some different types of CNC machine tools.	3
Q No.5	What are the advantages of NC machines?	3
Q No.6	What are the basic components of an NC system?	3
Q No.7	What are the applications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

Section B

ttem	pt ALL	Questions each question carry THREE Marks.	[3*4=12]
	.No	Question	CO
C	No.1	Discuss in brief about the coordinate system in numerical control.	3
(Q No.2	Write a short note on CNC programming.	3
1	Q No.3	Explain in brief about NC words.	3
1	Q No.4	Explain the role of computer in computer assisted par programming.	3

Section C

O. No	Ouestions each question carry FIVE Marks. Ouestion	[5*2=10 CO
	Define group technology. Mention its advantages and disadvantages.	4



Meerut Institute of Technology (PC), Meerut

First Sessional Examination 2023-2024

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)

QUESTION	Course outcome	Taxonomy
What is meant by efficiency of an engine?	CO1	Understanding
	CO1	Understanding
	CO1	Understanding
	COI	Understanding
	CO1	Remembering
	What is meant by efficiency of an engine? Define cyclic process. What do you understand by adiabatic process? Define heat of neutralization.	What is meant by efficiency of an engine? CO1 Define cyclic process. What do you understand by adiabatic process? CO1 Define heat of neutralization.

 $\frac{\text{Section} - B}{\text{(This section contains 3 questions, you are required to attempt any 2 questions each carrying 2.5marks)}}{\text{(Answer in 100-150 words)}}$

Q.NO	QUESTION	Course	Taxonomy
1	State and explain second law of thermodynamics.	COI	Analysis
2	What do you understand by heat of combustion and its the application?	COI	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 carengine working between absolute temperature T_1 and T_2 .		Evaluative
2	Calculate the work done during isothermal expansion of one mole of an idea from 10atm ti 1 atm at 300k		Evaluative
3	. Calculate the heat of formation of ethylene from the following data: (1) $C(s) + O_2(g) \to CO_2(g)$; $\Delta H = -94.0 \text{ kcal}$ (2) $H_2(g) + (1/2) O_2(g) \to H_2O(l)$; $\Delta H = -64.4 \text{ kcal}$ (3) $C_2H_4(g) + 3O_2(g) \to 2CO_2(g) + 2H_2O(l)$; $\Delta H = -337.0 \text{ kcal}$		Understanding
4	Calculate the work done when a gas expands isothermally and reversibly from v_2		Analysis
5	Prove that in a reversible process net entropy change for system and surroundin	g is0 CO1	Remembering

Meerut Institute of Technology (PC), Meerut

First Sessional Examination 2023-2024

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

Subject code:BCH-101

Name of the subject: INORGANIC CHEMISTRY

Time Allowed: 11/2 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?	COI	Understanding
2	What is Heisenberg uncertainty principle? Give its significance.	COI	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

$\frac{\text{Section} - B}{\text{(This section contains 3 questions, you are required to attempt any 2 questions each carrying 2.5 marks)}}$ (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.	COI	Analysis
2	What is de-Broglie equation? Explain and prove the de-Broglie equation	COI	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.	COI	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

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.)

Ouestion	Questions	Course outcome
No.	1 C at Cillerings	CO2
1.	Write the chemical equation for the following: a) Acid chloride from PCl5 b) 2°Alcohol by grignard reagent	
	a) Acid chioride from PCIS b) 2 Predict cy greg	CO3
2.	Write the Kolbe process of salicylic acid?	CO3
3.	Define cyclic ethers and uses?	CO1
4.	What are SN1 and Sn2 reactions for haloalkanes?	CO2
5.	Give the reduction reaction for ketons by the following: a)LiAlH ₄ /H ₃ O ⁺ b)NaBH ₄ /Acid c) Zn(Hg)/HCl	

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	Questions	Course outcome
No.	2.1 C.H. in anation	CO4
1.	Write the mechanism of the following reaction: a) Clemmensen Reduction c)Wolff-Kishner	
2.	Write the detail note on acidity of phenol and effect of substituent's of	CO2
3.	acidity 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	Questions	Course outcome
No. 1.	Explain the following with mechanism: a)Claisen- Condensation b)Reformatsky Reaction c)Deckmann Reaction d) Hoffmann-Bromamide Degradation	CO4
	Give the classification, preparation, properties of dicarboxylic acids?	CO4
2.	Give the classification, preparation, properties of area from the	CO3
3.	Write preparation and chemical properties of any two from the following: a)Acid Chloride b)Acid Anhydride c)Acid Amide d)Ester	
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



Meerut Institute of Technology, Meerut PUT Examination 2024-25 (Odd Semester)

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

Name of the subject: Organic Chemistry

Time Allowed: 2. 00 Hours

Subject code: BCH- 401 Maximum Marks: 50

Section - A (2x5 = 10)

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

Question	Course Outcome
2 Circo truo avamples	CO2
What are Isoenzymes? Give two examples.	CO3
Define Allosteric Inhibition .	Cos
Name any two colour reactions given by Proteins.	CO1
	CO2
Define Zwitter ion.	COL
Name any two Antipyretics Drugs.	COI
	Question What are Isoenzymes? Give two examples. Define Allosteric Inhibition . Name any two colour reactions given by Proteins. Define Zwitter ion.

Section – B (5x2 = 10)

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

Ques.	Question	Course Outcome
<i>No.</i> 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.	C03

Section - C (10X3 = 30)

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

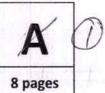
Ques. No.	Question	Course Outcome
9	Write short note on- a. Factors affecting Enzyme Action. b. Important characteristics of Watson and Crick model of DNA.	C01
10	Write a note on Saponofication value and how will you calculate Iodine number.	C01
11	What are Synthetic detergents and how are they harmful for environment.	CO2
12	Explain N-terminal residue analysis in Proteins through Edmann's Degradation method.	COI
13	Write 10 steps of Glycolysis in detail.	CO2

SAMPLE COURSE OUTCOMES EVALUATED ANSWER SHEETS SESSION 2023-24



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ANSWER BOOKLET



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ANSWER BOOKLET

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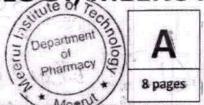
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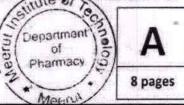
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- Follow the instructions given on question paper carefully.
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