C- 23 Engineering Mathematics – II

Subject Title : Engineering Mathematics – II

Subject Code : CM/AIML/AMG/AMT/CAI/CCB/CCN/WD-301

Periods/Week : **04** Periods/Semester : **60**

BLUE PRINT

S.No.	Chapter/Unit	No. of	Weightage	S	Short type			Essa	y typ	е	COs	
	title	Periods	Allotted									mapped
				R	U	Ар	An	R	U	Ар	An	
		1	Unit – I: In	tegral (Calcu	ılus						
1	Indefinite	17	26	2	0	0	0	0	2	0	0	CO1
	integration											
2	Definite	5	16	2	0	0	0	0	0	1	0	CO1
	integrals											
			Unit – II: I	Differe	ntial	Equa	tions					
3	Introduction	2	3	0	1	0	0	0	0	0	0	CO2
	to Differential											
	equations											
4	Solutions of	6	10	0	0	0	0	0	0	1	0	CO2
	Differential											
	equations of											
	first order											
		Unit	– III: Graph T	heory	and	Proba	bility	'				
5	Graph theory	5	6	1	1	0	0	0	0	0	0	CO3
6	Probability	12	26	0	1	1	0	0	0	1	1	CO3
			Unit – I\	/ : Stat	istic	5						
6	Measures of	1	0	0	0	0	0	0	0	0	0	CO4
	Central											
	Tendency											
7	Measures of	3	3	1	0	0	0	0	0	0	0	CO4
	Dispersion											
8	Correlation	4	10	0	0	0	0	0	0	0	1	CO4
9	Simple linear	5	10	0	0	0	0	0	0	0	1	CO4
	regression											
	Total	60	110	6	3	1	0	0	2	3	3	
			Marks	18	9	3	0	0	20	30	30	

R: Remembering Type : 18 Marks
U: understanding Type : 29 Marks
Ap: Application Type : 33 Marks
An: Analyzing Type : 30 Marks

UNIT TEST MODEL PAPERS

C-23, xx-301

Unit Test I

State Board of Technical Education and Training, A. P

III SEM

Subject name: Engineering Mathematics-II Sub Code: CM/AIML/AMG/AMT/CAI/CCB/CCN/WD-301

Time: 90 minutes Max. Marks: 40

Part-A 16 Marks **Instructions:** (1) Answer all questions. (2) First question carries four marks and the remaining questions carry three marks Answer the following: 1. a. $\int x^6 dx =$ _____. (CO1) b. $\int \frac{1}{16 + x^2} dx =$ _____. (CO1) c. $\int_{0}^{1} x dx =$ _____. (CO1) d. Degree of $\left(\frac{dy}{dx}\right)^2 + \frac{dy}{dx} = 3$ is _____. (CO2) Evaluate $\int (\sec^2 x + 2e^x) dx$. (CO1) Evaluate $\int \frac{\sin(\log x)}{x} dx.$ (CO1) Evaluate $\int_{0}^{2} \cos x dx$ 4. (CO1) Find the differential equation to the family of curves y = mx + 1, where m is arbitrary 5. constant. (CO2) 3×8=24 Marks Part-B **Instructions:** (1) Answer all questions. (2) Each question carries eight marks (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer. A) Evaluate $\int \sin^4 x \cos x dx$. (CO1) (OR) B) Evaluate $\int \frac{1}{(x+1)(x+2)} dx$. (CO1) 2. A) Evaluate $\int_{1}^{1} \frac{\sin^{-1} x}{\sqrt{1-x^2}} dx$ (CO1) (OR) B) Evaluate $\int_{0}^{\pi/2} \frac{\sin^8 x}{\sin^8 x + \cos^8 x} dx$ (CO1) 3. A) Solve $\frac{dy}{dx} = \sqrt{\frac{1 - y^2}{1 - x^2}}$ (CO2) (OR) B) Solve $\frac{dy}{dx} + \frac{2y}{x} = \frac{1}{x^2}$ (CO2)

Unit Test II

C-23, xx -301

State Board of Technical Education and Training, A. P

III Sem

Subject name: Engineering Mathematics-II Sub Code: CM/AIML/AMG/AMT/CAI/CCB/CCN/WD-301

Time: 90 minutes Max.marks:40

Part-A 16 Marks

Instructions: (1) Answer

- (1) Answer all questions.
- (2) First question carries **four** marks and the remaining questions carry **three** marks each
- 1. Answer the following:
 - a. A null graph has edges.

(CO3)

b. P(at least one) = 1 - P(None): State TRUE/FALSE

(CO3)

c. $P(A) + P(B) - P(A \cap B) =$

- (CO3)
- d. Range = Highest value Lowest value: State TRUE/FALSE
- (CO4)

2. Define a simple graph.

- (CO4)
- Two cards are drawn at random from a well-shuffled pack of 52 cards. Find the probability that one is a king and the other is a queen. (CO5)
- 4. Let A and B are events with $P(A) = \frac{1}{5}$, $P(B) = \frac{2}{3}$ and $P(A \cap B) = \frac{1}{15}$, find $P(A \cup B)$

(CO5)

5. Find the probability of getting at least one head when two coins are tossed. (CO5)

Part-B 3×8=24

Marks

Instructions:

- (1) Answer all questions.
- (2) Each question carries eight marks
- (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.
- 6. A) A problem is given to three students, A,B,C whose chances of solving at are 1/2, 1/3, and 1/4 respectively. If they try it independent, what is the probability that the problem will be solved? (CO3)

B) In a class, 2% of boys and 3% of girls passed in the Programming subject. There are 30%

girls in the class. If a student is selected who has passed the subject, what is the probability that the student is a girl. (CO3)

7. A) Find the mean deviation about mean for the data:85,96,76,108,85,80,100,85,70,95

(CO4)

B) The number of runs made by six players in a cricket match is: 12, 18, 21, 26, 17, 20. Find the standard deviation. (CO4)

8. A) Calculate the Spearman's rank correlation coefficient for the following data: (CO4)

х	5	10	5	11	12	4	3	2	7	1
У	1	6	2	8	5	1	4	6	5	2

(OR)

B) Calculate the regression coefficient of Y on X and obtain the regression equation for the following data: (CO4)

Χ	1	2	3	4	5	6	7
Υ	9	8	10	12	11	13	14

MULTIMEDIA (AMG-302)

Model Blue Print:

S.No	Chapter/Unit title	No. of periods	Weightage Allocated	Di	Marks Wise Distribution of Weightage		Question wise Distribution of Weightage				CO's Mapped	
				R	U	A p	A n	R	U	A p	An	
1	Introduction to Multimedia	6	13	3	1 0			1	1			CO1
2	Representation of Multimedia Objects	19	29	3	6	10	10	1	2	1	1	CO1,CO2
3	Multimedia Editing and Compression technology	15	29	3	6	10	10	1	2	1	1	CO1,CO2, CO3
4	Multimedia Application Design	8	13		3	10			1	1		CO1,CO2, CO3,CO4
5	Multimedia Authoring and Publishing	12	26	3	3	10	10	1	1	1	1	CO1,CO2, CO3,CO4, CO5
	Total	60	110	12	28	40	30	4	7	4	3	

DIPLOMA INANIMATION AND GRAPHICS ENGINEERING MODEL PAPER MULTIMEDIA UNIT TEST-1

SCHEME: C-23 :: SUB CODE: AMG-302

MA	X MARKS:40	TIME:90Minutes
	PART-A	16Marks
Inst	ructions: 1)Answer all questions	
	2) First question carries 4 marks, and each question of remaining of	carries 3 marks.
1.	a) Hyper text and hyper media both are same(True/False)	(CO1)
	b)refers to the color information stored in an image	(CO2)
	c)refers to how many pixels are displayed per inch of an image	e. (CO2)
	d) Which one of the following is audio file format[]	(CO2)
	i)BMP ii)GIF iii)MIDI iv)JPEG	

2)	State the desirable features for a multimedia system.	(CO1)
3)	List at least four attributes of a font.	(CO2)
4)	List the popular video broad cast standards	(CO2)
5)	List the multimedia Objects.	(CO1)
Instr	PART-B uctions: 1)Answer all questions 2) Eachquestioncarries8Marks 3) Answer should be comprehensive and the criterion for va not the length of the answer.	3X8=24Marks luation is the content but
6.	a) Explain the applications of multimedia Or	(CO1)
	b) Describe the measurement of font type	(CO2)
7.	a) Describe the use of colors (RGB, CMYK, HSB) in multimedia Or	(CO2)
	b) Explain popular audio fileformatsMP3,WMA,WAV,MIDI.	(CO2)
8.	a) Explain popular video broad cast standards PAL,NTSC,SECAM Or	(CO2)
	b) Explain Analog to digital(A/D)Sampling and quantization	(CO2)

BOARD DIPLOMA EXAMINATIONS DIPLOMA IN ANIMATION AND GRAPHICS ENGINEERING MODEL PAPER – YEAR END EXAMINATION MULTIMEDIA

SCHEME: C-23 SUBJECT CODE:AMG-302 MAX MARKS:80 TIME:3HOURS

IAA WARKS.00	THVIE.SHOURS
PART-A Note: Answer all questions. Each question carries 3 marks 1.Define the terms a)multimedia b)hypermedia c)hypertext	10 X 3=30M CO1
2.List any three popular image file formats.	CO2
3.Differentiate between typeface and font	CO2
4.List any three popular audio file formats.	CO2
5.List and explain the software tools of Image/Graphics Editing	CO3
6.List the main Steps in JPEG Image Compression	CO3
7.Differentiate between Run-length coding and Variable ·length coding	CO3
8.List and explain various ways for Content design effectively.	CO4
9.Listthe different Metaphors	CO5
10.State the importance of an Authoring System	CO5
PART-B Note: 1.Answer any five question. 2. Each question carries 10 marks	5 X10=50M
11. Explain the applications of multimedia	CO1
12. Explain Raster and Vector representations of Graphics	CO2
13. Explain popular video broad casts tandards PAL,NTSC,SECAM	CO2
14. Explain the software tools of Music Sequencing and Notation	CO3
15. Describe the process of MPEG video compression.	CO3
16. Explain various ways for Content design effectively.	CO4
17. Explain Offline Publishing by using Flash with an example.	CO5

GRAPHIC DESIGNING

AMG-303

Model Blue print

CO5

18. Explain Online Publishing by using Dreamweaver with an example.

S.No	Chapter/ Unit title	No.of periods	Weightage Allocated	Marks Wise Distribution of Weightage			Question wise Distribution of Weightage				CO's Mapped	
				R	U	Ар	An	R	U	Ар	An	
1	Photoshop Workspace and Work Flow	15	16	3	13			1	2			CO1
2	Masking and Color Correction	15	26	3	13	10		1	2	1		CO2
3	Illustrator user interface & Drawing Tools	15	26	3	13	10		1	2	1		CO3
4	Designing Layout & printing process	15	26	3	13	10		1	2	1		CO4
5	Designing for Media	15	16	3	3		10	1	1		1	CO5
	Total	75	110	15	55	30	10	5	9	3	1	

DIPLOMA IN 3D ANIMATION AND GRAPHICS ENGINEERING MODEL PAPER GRAPHIC DESIGNING UNIT TEST-1

SCHEME: C-23 SUBJ CODE: AMG-303

MAX MARKS: 40 TIME: 90 Minutes

PART-A 16Marks

Instructions: 1) Answer all questions

2) First question carries 4marks, and each question of remaining carries 3marks.

1.	a) Photoshop is also called				
	b) Background layer present in the Photoshop (True/False)				
	c) shortcut for Create new layer()				
	1) Ctrl-Shift-O 2) Ctrl-Shift-N3) Ctrl-Shift-P 4) Ctrl-Shift-M				
	d) Show/Hide Brushes panel	(CO3)			
	1)F5 2)F6 c)F7 4)F9				
2)	Define the terms Graphics and Photoshop	(CO1)			
3)	Define layer and state the uses	(CO2)			
4)	List Steps to Apply Stroke and Fill colours	(CO3)			

5)	Define filter and list the types of filters

(CO2)

Inst	PART-B ructions:1) Answer all questions 2) Each question carries 8 Marks 3) Answer should be comprehensive and the criterion for valuation is to content but not the length of the answer.	3X8=24Marks
6.	a) Explain various panels and Menus Or	(CO1)
	b) Explain Creation, Opening and Importing of Images	(CO1)
7.	a) Explain Layer Effects and Styles	(CO2)
	b) Explain the scanner type's controls	(CO2)
8.	a) Explain viewing the document and working in artwork or Preview modes Or	(CO3)
	b) Explain usage of pen and pencil tools	(CO3)

BOARD DIPLOMA EXAMINATIONS

DIPLOMA IN 3D ANIMATION AND GRAPHICS ENGINEERING MODEL PAPER – YEAR END EXAMINATION GRAPHIC DESIGNING

	IEME: C-23 X MARKS:80	SUBJ CODE: AMG-303 TIME: 3HOURS
	PART-A	10X3=30 Marks
Not 1.	te: Answer all questions Define the terms Graphics, Photoshop	(CO1)
2.	List elements of Photoshop Works pace	(CO1)
3.	Define layer and state the uses	(CO2)
4.	List types of Images for print	(CO2)
5.	List types and state the uses of Paintbrushes	(CO3)
6.	State use of the Opacity Masks	(CO3)
7.	Define the term Typography	(CO4)
8.	Define printing	(CO4)
9.	List the Limitations of Printing Process	(CO5)
10.	Define term a) poster b) binding	(CO5)
	PART-B	5x10=50Marks
Not	e: Answer any five questions	
11.	Explain various panels and Menus	(CO1)
12.	Explain Layer Effects and Styles	(CO2)
13.	Explain following operation layers	
	a)Linking b) Moving c) Stacking d) Locking	(CO2)
14.	Explain the Wrapping Paragraph and Character Styles	(CO3)
15.	Explain a) Creation of path b) Combining paths	(CO3)
16.	List and Explain the Visual Ingredients of Graphic Design	(CO4)
17.	Describe the Layout Styles and Layout Components	(CO4)
18.	Give the Step by step process to Design Polycet campaign banner	with at least 3 lines of
	information with at least two images applying different colours and size	es (CO5)

2-D Digital Animation AMG-304 BLUE PRINT

S.N	Chapter/Unit title	No.of periods	Weightag e Allocated	[Marks Wise Distribution of Weightage			Question wise Distribution of Weightage				CO's Mapped
				R	U	Ар	An	R	U	A p	A n	
1	FLASH INTRODUCTION	15	16	6	10			2	1	•		CO1
2	DIGITAL CONVERSION	9	13	3	10			1	1			CO1,CO2
3	INTRODUCTION TOANIMATION	12	29	3	6	10	10	1	2	1	1	CO1,CO2,CO3
4	FLASH APPLICATIONS	12	26	3	3	10	10	1	1	1	1	CO1,CO2,CO3,C O4
5	CHARACTER ANIMATION	12	26		6	10	10		2	1	1	CO1,CO2,CO3,C O4,CO5
	Total *	75	110	15	35	30	30	4	7	4	1	

UNIT TEST-1

SCHEME: C-23 SUBJ CODE:AMG-304 **TIME: 90Minutes** MAX MARKS:40 PART-A 16Marks **Instructions**:1) Answer all questions 2) First question carries 4marks, and each question of remaining carries 3marks 1. CO1 A. Lasso tool tool is useful for drawing freeform segments of a selection border. B. JPG stands for a) Joint Photographic Experts Group b) Joint Photographic Group c) Joint Photo Graph c) Joint Photo Group C. This area in Flash is similar to the clipboard in Microsoft Office applications. a) Dashboard b) Layers Panel c) Library Panel d) Property Inspector D. These are frames that are signaficant. It is the basis for tweened animation. b) Special Frames a) Key frames_ c) Master Frame None of the above 2. State the usage of Tools menu CO1 3. Differentiate between GRID and GUIDE CO1 4. List various Drawing modes CO2 State the purpose of motion guide layer CO2 PART-B 3X8=24Marks **Instructions:** 1) Answer all questions. 2) Each question carries 8 Marks 3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer 1. Explain the process to create pattern in flash C05 Or Explain the gradient tool with its types CO₂ Explain purpose of paint bucket with its options (Gap size option, Lock fill option, &Transform Fill option) CO3 What are the benefits of layers in flash? Explain in detail. C04 3. Discuss the difference between shape tweening and motion tweening? CO₅ Describe how to do image scaling and squeezing in Flash. *** **BOARD DIPLOMA EXAMINATIONS DIPLOMA IN ANIMATION AND MULTIMEDIA ENGINEERING MODEL PAPER – YEAR END EXAMINATION 2D DIGITALANIMATION**

SUBJ CODE:AMG-304

TIME: 3HOURS

SCHEME: C-23

MAX MARKS:80

Note: A	Answer all questions. Each question carries 3 marks	10 X 3=30	M
1.	What are the components of flash workspace	3	CO1
2.	List any three functions of library	3	CO1
3.	List any three bitmap images	3	CO2
4.	State the importance of paint bucket	3	CO2
5.	Differentiate between primary and secondary actions	3	CO2
6	Define the term key frame with its importance.	3	CO4
7	List various symbols	3	CO5
8	Write the steps to duplicate symbol	3	CO5
9	Write the steps to reuse character design	3	CO3
10	Differentiate between rigging and animation	3	CO3

PART-B

Note: 1. Answer Any five questions

2. Each question carries 10 marks	5 X 10=50M
11. Explain any four tools of tools panel with their properties	CO1
12. Explain any the steps to create realistic effects	CO3
13. Explain the procedure to create tween based animation	CO2
14. Explain the differences between Motion tween and shape tween	CO2
15. List the effects that can be added to timeline and explain them	CO3
16. Explain the procedure to create any two timeline effects	CO3
17. Explain the procedure to apply any four character rigging constrains	CO5
18. Explain the process of exporting video as sequence of image	CO5

Graphics Programming through Java AMG-305 MODELBLUEPRINT

S.No.	Chapter/Unit title	No.of periods Allocated	Weightage Allocatd	Marks Wise Distribution of Weightage			Question wise Distribution of Weightage			CO's Mapped
				R	U	Ар	R	U	Ар	
1	Object oriented	12	16	6	10	-	1	1	-	C01

	programming concepts and Basics of java and over loading									
2	Concepts of inheritance, overriding, Interfaces and Packages	12	26	6	10	10	2	1	1	CO2
3	Exception handling and Multi threaded programming	10	16	6	10		2	1		CO3
4	Applets, AWT, Event Handling	13	26	6	10	10	2	1	1	C04
5	Introduction to swings	13	26	6	10	10	3	1	1	CO5
	Total	60	110	30	50	30	10	5	3	

DIPLOMA IN 3D ANIMATION AND GRAPHICS ENGINEERING MODEL PAPER GRAPHICS PROGRAMMING THROUGH JAVA UNITTEST-1

SCHEME:C-23 SUBJCODE:AMG-305
MAX MARKS:40 TIME:90 MINUTES

PART-A 16Marks

Instructions:1) Answer all questions

1) First question carries 4 marks and remaining carries 3 marks each.

1.	a)	is 'this' keyword is refers currently invoked object proprieties (True/False)	(CO1)
	b)	is fully abstract class.	(CO2)
	c)	Which of the following is nota java access specifier. []	(CO2)

	I) Public II) default III) private IV) super d) Which one of the following are java translator [] I) Interpreter II) compiler III) assembler IV) I&II	(CO1)
2.	What is the use of constructor and list different types of constructors?	(CO1)
3.	Write the differences between abstract class and interface.	(CO2)
4.	List different types of Exceptions.	(CO3)
5.	What is the use of super keyword?	(CO3)
	PART-B	3X8=24Marks
Instru	uctions:1) Answer all questions 2) Each question carries 8 Marks 3) Answer should be comprehensive and the criterion for valuation not the length of the answer	is the content but
6.	a) Explain method over loading with an example program. Or	(CO1)
	b) Explain how to use static members in java with example.	(CO1)
7.	a) Explain multi level inheritance with example program. Or	(CO2)
	b) How java implements multiple in heritance with interface? Explain wit	h example.
8.	a) Explain how to create and import package. Or	(CO2) (CO3)
	b) Explain exception handling with example program	(CO3)

BOARD DIPLOMA EXAMINATIONS DIPLOMA IN ANIMATION AND MULTIMEDIA ENGINEERING MODEL PAPER – YEAR END EXAMINATION GRAPHICS PROGRAMMING THROUGH JAVA

SCHEME: C-23 SUBJCODE: AMG-305
MAY MARKS: 80 TIME: 3 HOURS

	MARKS:80	TIME:3 HOURS
A 10 01.0	Part-A	1072-20
Answ	ver All Questions each carries three marks	10X3=30
1.	Define Byte code and JVM	CO1
2.	State the purpose of final keyword.	CO1
3.	Define over riding and give the syntax.	CO2
4.	What is the use of' super' keyword?	CO2
5.	Write the advantages of exceptions.	CO4
6.	List different methods in thread life cycle.	CO4
7.	What is an event? List different event Listeners.	CO5
8.	Write different constructors in Text Field of AWT	CO5
9.	List container classes in Swing	
	Part-B	
	Part-B	
	ver All Questions carries eight marks	5X8=40
11.	Explain the features of Java programming	CO1
12.	Explain over loading with example program.	CO2
13.	Explain how to implements multi-level in heritance with example.	CO2
14.	Explain how to create multiple threads with an example	
15.	What is applet? Explain Applet life cycle.	CO4
16.	Explain a bout keyboard events with sample program.	CO4
17.	Compare AWT and Swing in Java	CO5
18.	Write a program to using J button, J Label, J Text Field components in S	wing. CO5

FOURTH SEMESTER

ELEMENTS OF FILM TECHNOLOGY

AMG-401

Model Blue Print:

S.No.	Chapter/Unit title	No.of periods	Weightage Allocated	Marks Wise Distribution of Weightage			Question wise Distribution of Weightage				CO's Mapped	
				R	U	Ар	An	R	U	Ар	An	
1	VISUAL COMMUNICATIO N	15	16	3	13			1	2			CO1
2	PRE SHOOTING	15	26	3	3	10	10	1	1	1	1	CO2
3	PRODUCTION DESGIN	15	16	3	3	10		1	1	1		CO3
4	SHOOTING	15	26	3	13		10	1	2		1	CO4
5	POST SHOOTING	15	26	3	13		10	1	2	1		CO5
	Total	75	110					5	8	3	2	

DIPLOMA IN 3D ANIMATION AND GRAPHICS ENGINEERING MODEL PAPER

Elements of Film Technology UNIT TEST-1

SCHEME: C-23 SUBJ CODE:AMG-401

MAX MARKS:40 **TIME: 90Minutes** PART-A 16Marks **Instructions:** 1) Answer all questions 2) First question carries 4marks, and each question of remaining carries 3marks. a) Communication is simply the act of transferring information from one place, person or group to another. (True/False) (CO1) b) The person who act as creative lead of the **film is called as** ______. (CO3) c) Step by step procedure to solve problem is -----(CO2) d) Which one of the following is not a Script Element. [] (CO2) a)Scene heading b) action c) dialogue d) singing 2) List any three types of Communication (CO1) 3) What is script analysis. (CO2) 4) List any three genre of the film.? (CO2) 5) Write about Location Hunting process.. (CO3) **PART-B** 3X8=24Marks Instructions:1) Answer all questions. 2) Each question carries 8 Marks 3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer. 6. a) Explain nonverbal Communication. (CO1) Or b) Explain Mass communication. (CO1) 7. a) Explain the process of assessing the characters based on profession and backgrounds. (CO2)

Or

(CO2)

(CO3)

b) Describe the process of surrealistic and dreamy sets for song sequences

8. a) Describe the Identification of location suitable to provide backdrop on the scenes(CO3)

Orb) Explain the process of assisting the director to finalize casting.

C- 23 Engineering Mathematics – II

Subject Title : Engineering Mathematics – II

Subject Code : CM/AIML/AMG/AMT/CAI/CCB/CCN/WD-301

Periods/Week : **04** Periods/Semester : **60**

TIME SCHEDULE

S.No.	Chapter/Unit title	No. of Periods	Marks Allotted	Short Type	Essay Type	COs mapped	
	Unit – I: Integral Calculus						
1	Indefinite integration	17	26	2	2	CO1	
2	Definite integrals	5	16	2	1	CO1	
		Unit – II: Diff	erential Equa	tions			
3	Introduction to	2	3	1	0	CO2	
	Differential equations						
4	Solutions of	6	10	0	1	CO2	
	Differential equations						
	of first order						
	Uni	it – III: Graph	Theory and Pr	obability			
5	Graph theory	5	6	2	0	CO3	
6	Probability	12	26	2	2	CO3	
		Unit –	IV : Statistics				
6	Measures of Central	1	0	0	0	CO4	
	Tendency						
7	Measures of	3	3	1	0	CO4	
	Dispersion						
8	Correlation	4	10	0	1	CO4	
9	Simple linear	5	10	0	1	CO4	
	regression						
	Total	60	110	10	8		
			Marks	30	80		

C-23 CM-301 Engineering Mathematics – II (Common to CM/AIML/AMG/AMT/CAI/CCB/CCN/WD)

Unit Test Syllabus

Unit Test	Syllabus
Unit Test-I	From L.O 1.1 to L.O 2.5
Unit Test-II	FromL.O 3.1 to L.O 4.10

UNIT TEST MODEL PAPERS

C = 23, xx = 301

Unit Test I

State Board of Technical Education and Training, A. P.

III SEM

Subject name: Engineering Mathematics-II

Sub Code: CM/AIML/AMG/AMT/CAI/CCB/CCN/WD-301

Time: 90 minutes Max. Marks: 40 Part-A 16 Marks **Instructions:** (1) Answer all questions. (2) First question carries four marks and the remaining questions carry three marks each. Answer the following: 1. a. $\int x^6 dx =$ _____. (CO1) b. $\int \frac{1}{16+x^2} dx =$ _____. (CO1) c. $\int_{0}^{1} x dx =$ _____. (CO1) d. Degree of $\left(\frac{dy}{dx}\right)^2 + \frac{dy}{dx} = 3$ is _____. (CO₂) Evaluate $\int (s ec^2 x + 2e^x) dx$. 2. (CO1) Evaluate $\int \frac{\sin(\log x)}{x} dx$. 3. (CO1) Evaluate $\int_{0}^{\frac{\pi}{2}} \cos x dx$ 4. (CO1) Find the differential equation to the family of curves y = mx + 1, where m is arbitrary 5. constant. (CO2) Part-B 3×8=24 Marks Instructions: (1) Answer all questions. (2) Each question carries eight marks (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer. A) Evaluate $\int \sin^4 x \cos x dx$. (CO1) (OR) B) Evaluate $\int \frac{1}{(x+1)(x+2)} dx$. (CO1) 2. A) Evaluate $\int_{1}^{1} \frac{\sin^{-1} x}{\sqrt{1-x^2}} dx$ (CO1)

(OR)

B) Evaluate
$$\int_{0}^{\pi/2} \frac{\sin^{8}x}{\sin^{8}x + \cos^{8}x} dx$$
 (CO1)

3. A) Solve $\frac{dy}{dx} = \sqrt{\frac{1-y^{2}}{1-x^{2}}}$ (CO2)

B) Solve $\frac{dy}{dx} + \frac{2y}{x} = \frac{1}{x^{2}}$ (CO2)

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Unit Test II C -23, xx -301

State Board of Technical Education and Training, A. P

III Sem

Subjectname:Engineering Mathematics-II

Sub Code: CM/AIML/AMG/AMT/CAI/CCB/CCN/WD-301

Time: 90 minutes

Part-A

16 Marks

Instructions: (1) Answer all questions.
(2) First question carries four marks and the remaining questions carry three marks each

1. Answer the following:
a. A null graph has _____ edges. (CO3)

b. P(at least one) = 1-P(None): State TRUE/FALSE (CO3)

c. $P(A) + P(B) - P(A \cap B) =$ (CO3)

d. Range = Highest value - Lowest value: State TRUE/FALSE (CO4)

2. Define a simple graph. (CO4)

Two cards are drawn at random from a well-shuffled pack of 52 cards. Find the probability that one is a king and the other is a queen.

Let A and B are events with $P(A) = \frac{1}{5}$, $P(B) = \frac{2}{3}$ and $P(A \cap B) = \frac{1}{15}$, find $P(A \cup B)$ 4.

Find the probability of getting at least one head when two coins are tossed. 5. (CO₅)

> Part-B 3×8=24 Marks

Instructions: (1) Answer all questions.

1.

- (2) Each question carries eight marks
- (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

6.	A) A problem is given to three students, A,B,C whose chances of solving at are 1/2, 1/3, and 1/4 respectively. If they try it independent, what is the probability that the problem will be solved? (CO3)
	B) In a class, 2% of boys and 3% of girls passed in the Programming subject. There are 30% girls in the class. If a student is selected who has passed the subject, what is the probability that the student is a girl. (CO3)
7.	A) Find the mean deviation about mean for the data:85,96,76,108,85,80,100,85,70,95 (CO4)
	(OR)
	B) The number of runs made by six playersin a cricket match is: 12, 18, 21, 26, 17, 20. Find the standard deviation. (CO4)
8.	A) Calculate the Spearman's rank correlation coefficient for the following data: (CO4)
	(OD)
	(OR) P) Calculate the regression coefficient of V on V and obtain the regression equation for
	B) Calculate the regression coefficient of Y on X and obtain the regression equation for the following data:
	(CO4)

BOARD DIPLOMA EXAMINATION (C-23)

ENGINEERING MATHEMATICS – II

CM/AIML/AMG/AMT/CAI/CCB/CCN/WD-301

MODEL PAPER-1

TIME: 3 HOURS TOTAL MARKS:80

PART - A

Note: (1) Answer all questions. Marks:10 x 3 = 30

(2) Each question carries three marks.

1. Evaluate
$$\int (e^x + 2\cos x + \frac{6}{\sqrt{1 - x^2}}) dx$$
 (CO1)

2. Evaluate
$$\int \frac{\tan^{-1} x}{1+x^2} dx$$
 (CO1)

3. Evaluate
$$\int_{1}^{2} (x-1)(x+2) dx$$
 (CO1)

4. Evaluate
$$\int_0^{\pi} \sin x \ dx$$
 (CO1)

- 5. Find the differential equation of the family of the curves $x^2 y^2 = a^2$ where 'a' is an arbitrary constant. (CO2)
- 6. How many edges are there in a graph with 10 vertices each of degree 6? (CO3)
- 7. Draw the graph with vertices A, B, C whose adjacency matrix is $\begin{bmatrix} 0 & 1 & 1 \\ 1 & 0 & 2 \\ 1 & 2 & 0 \end{bmatrix}$ (CO3)
- 8. Two cards are drawn from a well-shuffled deck of 52 cards. What is the probability that both are aces? (CO3)
- A ball is drawn at random from a bag containing 4 red and 3 blue balls. Find the probability that the ball is either red or blue.
- 10. Find the range of the set of integers 14, -12, 7, 0, -5, -8, 17, -11, 19? (CO4)

Part B

Marks: $5 \times 10 = 50$

Note: Answer any five questions and each question carries 10 marks.

11. a) Evaluate
$$\int \frac{14x+11}{7x^2+11x+1} dx$$
 (CO1)

b) Evaluate
$$\int \frac{x}{(x-2)(x+1)} dx$$
 (CO1)

12. a) Evaluate
$$\int e^x (\sin x + \cos x) dx$$
 (CO1)

b) Evaluate
$$\int x^2 e^{2x} dx$$
 (CO1)

13. Show that
$$\int_0^{\pi/2} \frac{1}{1 + \tan x} dx = \frac{\pi}{4}.$$
 (CO1)

14. Solve
$$\frac{dy}{dx}$$
 + y cotx = cosec x (CO2)

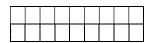
- 15. a)Compute P(A/B) and P(B/A) if $P(A) = \frac{3}{8}$, $P(B) = \frac{5}{8}$ and $P(A \cup B) = \frac{3}{4}$ (CO3)
 - b) A bag contains 10 black and 5 white balls. Two balls are drawn from the bag one after the other without replacement. What is the probability that both balls drawn are black?

 (CO3)

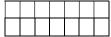
16. It is observed that 50% of mails are spam. There is a software that filters spam mail before reaching the inbox. Its accuracy for detecting a spam mail is 99% and chances of tagging a non-spam mail as spam mail is 5%. If a certain mail is tagged as spam, find the probability that it is not a spam mail.

(CO3)

17. Calculate Spearman's rank correlation coefficient from the following data: (CO4)



18. Calculate the regression coefficient of Y on X and obtain the regression equation for the following data: (CO4)



BOARD DIPLOMA EXAMINATION (C-23) ENGINEERING MATHEMATICS - II

CM/AIML/AMG/AMT/CAI/CCB/CCN/WD-301

MODEL PAPER-2

TOTAL MARKS:80 TIME: 3 HOURS

PART - A

Note: (1) Answer all questions. Marks: $10 \times 3 = 30$ (2) Each question carries three marks.

1. Evaluate
$$\int (\frac{1}{x} - e^x + x^4) dx$$
 (CO1)

2. Evaluate
$$\int \frac{\sin \sqrt{x}}{\sqrt{x}} dx$$
 (CO1)

3. Evaluate
$$\int_0^2 x^4 dx$$
 (CO1)

4. Evaluate
$$\int_0^1 \frac{1}{1+x^2} dx$$
 (CO1)

- 5. Find the differential equation of the family of curves $y = Ae^x + Be^{-x}$ where A and B are arbitrary constants. (CO2)
- (CO3) 6. Define a multigraph and draw a multigraph with 4 vertices
- 7. Write the adjacency matrix for a graph with V={x, y, z} and E={xy,xz,zx} (CO3)
- 8. Two students are selected from a group of two boys and two girls. Find the probability that the selected students both are boys? (CO3)
- 9. Compute $P(A \cup B)$ when $P(A) = \frac{1}{5}$, $P(B) = \frac{2}{3}$ and $P(A \cap B) = \frac{1}{15}$ 10. Find the range of the observations: 32, 41, 28, 54, 35, 26, 23, 33, 38, 40 (CO3)
- (CO4)

Part B

Marks: $5 \times 10 = 50$

Note: Answer any five questions and each question carries 10 marks.

11. a) Evaluate
$$\int \sec^2{(2x+3)}dx$$
 (CO1)

b) Evaluate
$$\int \frac{1}{(x-2)(x-3)} dx$$
 (CO1)

12. a) Evaluate
$$\int \frac{e^{m \tan^{-1} x}}{1 + x^2} dx$$
 (CO1)

b) Evaluate
$$\int x^2 \cos x \, dx$$
 (CO1)

13. Show that
$$\int_0^{\pi/2} \frac{\sin^{20} x}{\sin^{20} x + \cos^{20} x} dx = \frac{\pi}{4}.$$
 (CO1)

14. Solve
$$\frac{dy}{dx} + \frac{2y}{x} = \frac{1}{x^2}$$
 (CO2)

15. a) Let A and B are two events with
$$P(A) = \frac{1}{2}$$
, $P(B) = \frac{1}{3}$ and $P(A \cap B) = \frac{1}{4}$, find $P(A/B)$ and $P(B/A)$ (CO3)

16.	Three machines A, B and C produce respectively 50%, 30% and 20% of the total number of items of a factory. The percentages of defective output of these machines are respectively 2%, 3% and 4%. An item is selected at random and is found defective. Find the probability that the item was produced by machine C. (CO3)
17.	Calculate Spearman's rank correlation coefficient from the following data: (CO4)
18.	Calculate the regression coefficient of X on Y and obtain the regression equation for the following data: (CO4)
	<u> </u>

b) A fair die is rolled twice. What is the probability that an odd number will follow an even

(CO3)

number?

C-23 CBD-302 OOPS THROUGH JAVA

Model Blue Print:

S.No.	Chapter/ Unit title	No.of periods Allocated	Weightag e Allocatd	Distr	ks Wise ibutio ghtage	n of	Ques Distri Weig R	butio	on of	CO's Mapped
1	Object oriented programming concepts and Basics of java and over loading	13	13	3	10	-	1	1	-	C01
2	Concepts of inheritance, over riding,Interfaces and Packages	13	26	6	10	10	2	1	1	CO2
3	I/O Streams and Collections.	15	21	6	10	5	2	1	1/2	CO3
4	Exception handling and Multi threaded programming	14	21	6	10	5	2	1	1/2	C04
5	Applets, AWT, Event Handling	20	29	9	10	10	3	1	1	CO5
	Total	75	110	30	50	30	10	5	3	

Table specifying the scope of syllabus to be covered for unit tests

1 7 8 1 7	
Unit Test	Learning outcomes to be covered
Unit test-1	From 1.1 to 3.6
Unit test-2	From 3.7 to 5.14

DIPLOMA IN CLOUD COMPUTING & BIG DATA ENGINEERING MODEL PAPER OOPS THROUGH JAVA UNIT TEST-1

SCHEME: C-23 MAX MARKS: 40	SUBJ CODE: CBD-302 TIME: 90Minutes			
PART-A	16Marks			
Instructions: 1) Answer all questions				
2) First question carries 4marks, and each question of rer	maining carries 3marks			
1. a) is 'this' keyword is refers currently invoked object pr	roprieties (True/False)	(CO1)		
b)is fully abstract class.		(CO2)		
c) Which of the following is not a java access specifiersI) public II) default III) private IV) super	[]	(CO2)		
d) Which one of the following are java translator I) interpreter II) compiler III) assembler IV) I &II	[]	(CO1)		
2. What is the use of constructor and list different types of	of constructors?	(CO1)		
3. Write the differences b/w abstract class and interface		(CO2)		
4.List different types of I/O streams.				
(CO3)				
5. What is the use of super keyword?				
(CO3)				
PART-B 3X8=24	4Marks			
Instructions: 1) Answer all questions				
2)Each question carries 8 Marks				
3)Answer should be comprehensive and the criterion for valuatio length of the answer	n is the content but not th	ne		
6. a) Explain method over loading with an example.		(CO1)		
Or				
b) Explain how to use static members in java with exam	nple.	(CO1)		

7. a) Explain multilevel inheritance with example program. (CO2) b) How java implements multiple inheritance with interface? Explain with example. (CO2) 8. a) Explain how to create and import package. (CO3) b) Describe how to access primitive data types through keyboard with an example. (CO3) **Board Diploma Examination Model Question paper-End Exam** DIPLOMA IN CLOUD COMPUTING & BIG DATA ENGINEERING OOPS THROUGH JAVA SCHEME: C-23 SUBJECT CODE:CBD-302 MAX MARKS:80 TIME: 3 hours Part-A Answer All Questions each carries three marks 10X3=30 1. Define Byte code and JVM (CO1) 2. What is the use of label break?. (CO2) 3. Define overriding and give the syntax. (CO2) 4. What is the use of super keyword? (CO3) 5. List different Access modifiers in java. (CO3) 6. Write any three methods in ArrayList class. (CO3) 7. Write the advantages of exceptions. (CO4) 8. List different methods in thread life cycle. (CO4) 9. What is an event? List different event Listeners. (CO5) 10. Write different constructors in TextField. (CO5) Part-B Note: 1. Answer five of the following questions 2. Each question carries 10 marks 3. Answer should be comprehensive and the criterion for valuation is the content but not the 5X10=50 length of the answer 11. Explain the concept of method overloading with an example program. (CO1) 12. Explain how to implements multi-level inheritance with example. (CO2) 13. Explain how create and import a package with example packages. (CO2) 14. Explain HashSet class methods with simple program. (CO3)

15. (a) Write a java program to read data through command line arguments and write it into file and display file contents . (CO3)

(b) Explain Multi catch statements
(CO4)

16. Explain how to create multi-threading in java with an example program. (CO4)
17. Design an applet program that implements simple calculator with basic arithmetic operations. (CO5)
18. Explain mouse events with an example program. (CO5)

C-23 CBD-303 Computer Networks

Model Blue print:

S.No.	Chapter/Unit title	No. of periods	Weightage Allocated	Marks Wise Distribution of Weightage			Question wise Distribution of Weightage			CO's Mapped	
				R	U	Ар	R	U	Ар	An	
1	Introduction to Networks	15	21	3	3	10	1	1	1½		CO1,CO2
2	LAN components, Devices, tools, and Network Topologies.	12	26	6	10	10	2	1	1		CO3
3	Network Addressing and sub- netting	10	21	6	5		2	1/2	1		CO3, CO4, CO6
4	Networks protocols and management	14	26	3	3	20	1	1	2	*	CO3, CO5,CO6
5	Basic Network administration	9	16	3	3	10	1	1	1	*	CO6
	Total *	60	110	21	24	50	7	4½	6½		

Table specifying the scope of syllabus to be covered for unit tests

Unit Test	Learning outcomes to be covered
Unit test-1	From 1.1 to 3.4
Unit test-2	From 3.5 to 5.10

DIPLOMA IN CLOUD COMPUTING & BIG DATA ENGINEERING MODEL PAPER Computer Networks UNIT TEST-1

SCHEME: C-20 SUBJ CODE: CBD-303 MAX MARKS: 40 TIME: 90Minutes

PART-A	16Marks
Instructions:1) Answer all questions 2) First question carries 4marks, and each question of re	emaining carries
3marks 1. a) Transport layer is bottom layer of OSI reference model(True/False)	(CO2)
b) MAN stands for	(CO3)
c)tool is used to affix a connector at the end of cable	(CO1)
d) The class of private address range 172.16.0.0 to 172.31.255.255 is	(CO4)
i) Class A II) Class B III) Class C IV) Class D	
2) State the need of Networking.3) List any six LAN devices4) Give the functions of cable tester5) Describe IP address.	(CO1) (CO3) (CO3) (CO4)
PART-B Instructions:1) Answer all questions 2) Each question carries 8 Marks 3) Answer should be comprehensive and the criterion for valuations.	3X8=24Marks on is the content but not
the length of the answer 6. a) Explain OSI reference model in detail.	(CO2)

b)Compare TCP/IP and OSI reference models		(CO2)
7. a) Explain coaxial and twisted pair cables		(CO1)
	Or	
b) Explain IP address classes in detail.		(CO4)
8. a) Explain Star and Mesh Topologies		(CO3)
	Or	
b) Explain Ring and Bus Topologies		(CO3)

BOARD DIPLOMA EXAMINATIONS DIPLOMA IN CLOUD COMPUTING & BIG DATA ENGINEERING MODEL PAPER – YEAR END EXAMINATION Computer Networks

SCHEME: C-20 SUBJ CODE: CBD-303 MAX MARKS:80 TIME: 3HOURS

PART-A

Note: A	Note: Answer all questions. Each question carries 3 marks			3=30M	
1.	Write the importance of networking	3		CO1	
2.	Write any three differences between LAN and WAN		3		CO1
3.	List any thee network cables	3		CO2	
4.	Write about RJ-45 jack	3		CO2	
5.	What are the components of IP address	3		CO3	
6	What is the importance of sub-netting.	3		CO4	
7	Differentiate between ARP and RARP	3		CO5	
8	Write the importance of protocols in networking		3		CO5
9	List any three responsibilities of network administrator	3		CO6	
10	Write about disk management tools	3		CO6	

PART-B

Note: 1. Answer five of the following questions

- 2. Each question carries 10 marks
- 3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer

5 X 10=50M

11. Explain about ISO reference model with neat diagram.	10	CO1
12. Explain any four LAN devices.	10	CO2
13. Explain any four network topologies with neat diagrams.	10	CO3
14. a) Explain subnetting with a suitable exampleb) Write about wifi technology.15. Explain IPv4 address classes.	5 5 10	CO4 CO4 CO4
16. Explain any four network protocols.	10	CO5
17. Write different steps for monitoring and troubleshoot the network.	10	CO6

18. Write the steps to create and manage user groups using any network Operating system.10 CO6

C-23 CBD-304 DATA STRUCTURES THROUGH C

MODEL BLUE PRINT:

S. No.	Chapter Name	Periods allocate	Weightage allotted	Mark wise Distribution of Weightage		Distribution of Weightage		
				R	U	R	U	
1.	Introduction to Data structures, Sequential Storage Representation	23	16	6	10	2	1	CO1
2.	Linked Storage Representation -Linked Lists		16	6	10	2	1	CO2
3.	Linear Data Structures- Stacks	12	26	6	20	2	2	CO3
4.	Linear Data Structures- Queues	10	26	6	20	2	2	CO4
5.	Non Linear Data Structures- Trees	15	26	6	20	2	2	CO5
	Total	75	110	30	80	10	8	

Table specifying the scope of syllabus to be covered for unit tests

Unit Test	Learning outcomes to be covered
Unit test-1	From 1.1 to 2.9
Unit test-2	From 3.1 to 5.15

DIPLOMA IN CLOUD COMPUTING & BIG DATA ENGINEERING

MODEL PAPER Data Structures through C UNIT TEST-1

MAX MARKS:40			
PART-A	16Marks		
Instructions:1) Answer all questions 2) First question carries 4marks, and each question marks	stion of remaining carries 3		
 a) Array is a non-linear Data Structure.(True/False) b) Re-arranging of adjacent elements followed in type c) Single Linked List node consists of fields. d) Which one of the following is not a sorting technique [] i) Merge II)Bubble III)Binary IV)Quick Define sorting and searching. List any three Linear Data Structures. How to represent a node in Singly Linked list. Distinguish Singly Linked list and Doubly linked list. 	(CO1) e of sorting. (CO1) (CO2) (CO1) (CO1) (CO1) (CO1) (CO2) (CO2)		
PART-B Instructions:1) Answer all questions 2) Each question carries 8 Marks 3) Answer should be comprehensive and the criterion	3X8=24Marks for valuation is the content		
but not the length of the answer 6. a) Explain Bubble sort technique.	(CO1)		
(Or) b) Explain Quick Sort technique.	(CO1)		
7. a) Explain Binary Search technique using Recursion. (Or) b) Write a C program to implement Singly Linked list with all ope	(CO1)		
8. a) Write a C program to implement Doubly Linked list with all op (Or) b) Explain Circular Doubly Linked List.	, ,		

BOARD DIPLOMA EXAMINATIONS DIPLOMA IN CLOUD COMPUTING & BIG DATA ENGINEERING

MODEL PAPER - END EXAMINATION Data Structures through C

	HEME: C-23 X MARKS: 80		SUBJ CODE: CBD-304 FIME: 3HOURS
	PART - A		
	Note: Answer all the Questions. Each Question	Carries	3 marks
1.	What is Linear Data Structure and Non Linear Data Structure	e?(CO1)	
2.	List the abstract Data Types.	(CO1)	
3.	List any three operations of Linked List.	(CO2)	
4.	Write the structure code for declaring Doubly circular Linked	List.	(CO2)
5.	Convert the following into postfix expression: a+b*c/d^e.		(CO3)
6.	Evaluate the following expression:3 ^{^2} +15/5 [*] 6.	(CO3)	,
7.	Define Priority Queue.	(CO4)	
8.	List any three applications of Queue.	(CO4)	
_			

PART-B

Note: 1. Answer five of the following questions

2. Each question carries 10 marks

9. Define Binary Tree

10. List the applications of Trees.

3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer

5X10=50Marks

(CO5)

(CO5)

11.	Explain the method of Bubble Sort.	(CO1)
12.	Write C Program to Implement Single Linked List with all operations	
13.	Explain Linked list implementation of Stack with all operations.	(CO3)
14.	Write C program for Evaluation of Post Fix expression using Stacks	. (CO3)
15.	Explain all the operations of Circular Queues.	(CO4)
16.	Write C Program for implementation of Queues using linked lists.	(CO4)
17.	Explain the Linear representation and Linked representation of Bina	ary Tree(CO5)
18.	Explain about different Tree Traversals	(CO5)

C-23 CBD-305 CLOUD COMPUTING ARCHITECTURE AND DESIGN

Model Blue Print:

S.No.	Chapter/Unit title	No. of periods	Weightage Allocated	Dis	tribu	Wise ution tage	of	Question wise Distribution of Weightage		CO's Mappe		
				R	U	Ар	An	R	U	Ар	An	
1	Basics of Cloud Computing	10	16	6	10			2	1			CO1
2	Understand the concepts of Parallel and Distributed Computing	12	26	3	23			1	3			CO2
3	Understand the concepts of Virtualization	15	26	3	23			1	3			CO3
4	Cloud Computing Architecture and Services	13	26	6	20			2	2			CO4
5	Cloud deployment Models	10	16	3	13			1	2			CO5
	Total	60	110	21	89			7	11			

Table specifying the scope of syllabus to be covered for unit tests

Unit Test	Learning outcomes to be covered		
Unit test-1	From 1.1 to 3.3		
Unit test-2	From 3.4 to 5.7		

DIPLOMA IN CLOUD COMPUTING AND BIGDATA ENGINEERING MODEL PAPER

CLOUD COMPUTING ARCHITECTURE AND DESIGN UNIT TEST-1

SCHEME: C-23 SUBJ CODE: CBD-305 MAX MARKS:40 TIME: 90Minutes

MAX MARKS:40	TIME: 90Minutes
PART-A	16Marks
Instructions: 1) Answer all questions 2) First question carries 4marks, and each question 3marks	n of remaining carries
 a) is a computing technique in which applications are accessed protocols and networking standards. b) Grid computing is also called as "distributed computing (True/False) c) Which one of the following options can be considered as the Cloud? i) VMWARE ii) Intranet ii) Web Applications iV) All d) Full Form of IPC	(CO1)
 2. List the features of Cloud Computing 3. Define Parallel Computing 4. Define Distributed Computing 5. List any 3 Virtualization Techniques PART-B 	(CO1) (CO2) (CO2) (CO3) (8=24Marks
Instructions: 1) Answer all questions 2) Each question carries 8 Marks 3) Answer should be comprehensive and the criteri content but not the length of the answer	on for valuation is the
 6. a) Define the following terms related to recent trends in Computing 1) Cluster Computing 2. Grid Computing 3) Distributed Computing 4 Utility Computing (Or) 	ng (CO1)
b) Write the advantages and disadvantages of Cloud Computing7. a) Explain the Architectural Styles for Distributed Computing(Or)	(CO1) (CO2)
b) Differentiate Parallel and Distributed Computing8. a) Explain Hardware Virtualization Techniques(Or)	(CO2) (CO3)
b). Explain Application Virtualization Techniques	(CO3)

Board Diploma Examination

DIPLOMA IN CLOUD COMPUTING AND BIGDATA ENGINEERING MODEL PAPER

CLOUD COMPUTING ARCHITECTURE AND DESIGN

SCHEME: C-23 SUBJ CODE:CBD-305 MAX MARKS:80 TIME: 3HOURS

Part-A

	Answer All Questions each carries three marks 10X3=30	Marks
1.	Define the term 'Cloud Computing'.	(CO1)
2.	List any three features of Cloud Computing	(CO1)
3.	Define the term 'Parallel Computing'	(CO2)
4.	Write the purpose of Distributed Computing	(CO2)
5.	List any three Virtualization Technologies	(CO3)
6.	Write any three characteristics of Virtualization.	(CO3)
7.	List any three Services of Cloud Computing	(CO4)
8.	Write any three Characteristics of Platform as a Service	(CO4)
9.	List the Types of Cloud Models	(CO5)
10	. Give explanation on Economics of Cloud	(CO5)

PART-B 5×8=40Marks

Instructions: 1) Answer ALL questions

2) Each question carries eight marks.

3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11.	Write any five comparisons between Cluster Computing and Grid Com	puting.(CO	1)
12.	Explain Hardware architecture for parallel processing.	(CO2)	
13.	List and explain Architectural Styles for Distributed Computing		(C02)
14.	Explain the Operating System Level Virtualization Technique	(CO3)	
15.	Explain Programming Language Level Virtualization Technique		(CO3)
16.	Explain the working of Cloud Computing Architecture.		(CO4)
17.	Write any eight Differences between laaS, PaaS and SaaS		(CO4)
18.	Describe Public Cloud model in cloud computing		(CO5)