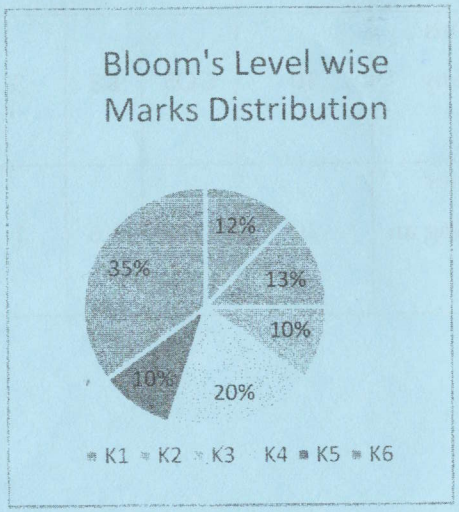
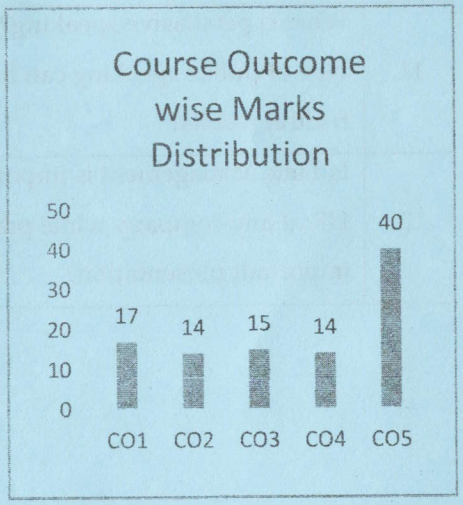
CO- Course Outcomes, KL- Knowledge Level, PO – Program Outcome

Course Outcomes	CO1	An ability to apply the knowledge of English Skills, to get the overall development in the concerned areas.
	CO2	Students will heighten their awareness of concert usage of English Grammar in writing and speaking.
	CO3	Students will strengthen their ability to write academic papers and summaries using `the process approach.
	CO4	Students will review the grammatical forms of English and the use of these forms in specific.
	CO5	Detail the bar behind the preparation and ability to engage in independent lifelong learning.
	CO6	Critical thinking as it pertains to using these tools for effective communication in academic settings.





	ARKAJAIN University Jharkhand		**END TERM EXAMINATION**
Branch	**CSE-ME.EEE**	Program	**B.Tech**
Subject Name	**English For Communication**	Semester	**IInd**
Course Code	**Bte22370**	Year	**2022/Even**
Time: 3 Hour Maximum Marks : 70	• Start writing from 2nd page onwards; **don't Write On The 1st Page Backside** • **Answer all Questions of Section A (Compulsory)** • **Answer Any Four out of Six of Section B** • **Answer Any Three out of Five of Section C** • **Possession of Mobile Phones** or any kind of **Written Material, Arguments with the Invigilator or Discussing with Co-Student** will comes under **Unfair Means** and will **Result** in the **Cancellation of the Papers**.		
Knowledge Level (KL)	**K1 :** Remembering	**K3 :** Applying	**K5 :** Evaluating
	K2 : Understanding	**K4 :** Analysing	**K6 :** Creating

Section A (Each question Carry 02 Marks from Q1a to Q1j) – 20 Marks

Q. No.1	QUESTION	Marks	COs	KL	PO
1a.	What is Self-esteem?	2	CO5	K1	2
1b.	What is Perception?	2	CO5	K1	2
1c.	What is Attitude?	2	CO5	K1	2
1d.	What is Career Planning?	2	CO5	K2	1
1e.	What are the following points to be remembered while doing Group Discussions?	2	CO4	K2	1

Q. No.	QUESTION	Marks	COs	KL	PO
1f.	What do you mean by Values?	2	CO1	K2	2
1g.	What do you mean by Personal Goal Setting?	2	CO2	K1	1
1h.	What do you mean by Awareness?	2	CO2	K1	2
1i.	What are the 5 most important skills in public speaking?	2	CO5	K1	3
1j.	What is Time Management?	2	CO4	K2	2

Section B (Answer any FOUR out of SIX) – 20 Marks (Each question 5 Marks)

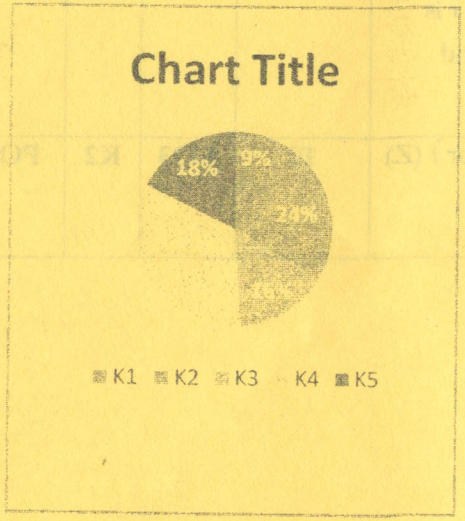
Q. No.	QUESTION	Marks	COs	KL	PO
2.	What are format for preparing Brochure for any advertisement?	5	CO1	K6	1
3.	Write a Technical letter on written proposal for purchasing of Antivirus for Computer Lab in Arka Jain University.	5	CO5	K6	2
4.	A major bus mishap which left several people seriously injured took place at Nicholas Road, Nungambakkam, and Chennai. Luckily no life was lost. Collect the information from the eye witnesses and send a report in 100-125 words to 'The Nungambakkam Times'.	5	CO3	K4	2
5.	Write a letter to the Customer Service Manager of Ganesh Electronics pvt.ltd. complaining about a defect in the music system purchased from the store.(100-150 words)	5	CO3	K4	1
6.	Write a memo to the accounting department asking them to attend training to learn about the new software the company has adopted.	5	CO3	K6	1
7.	What are the 4 types of Public Speaking?	5	CO5	K2	3

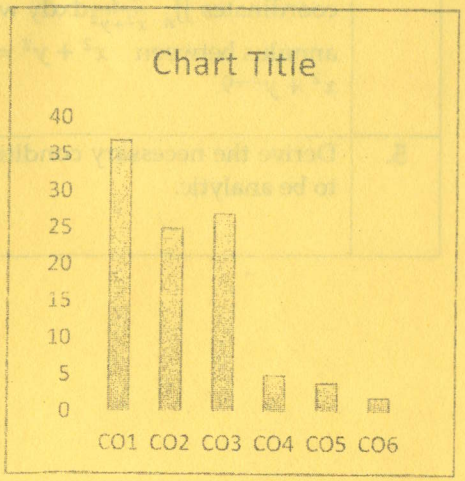
Section C (Answer any THREE out of FIVE) – 30 Marks-(Each question Carry 10 Marks)

Q. No.	QUESTION	Marks	COs	KL	PO
8.	Write an Event Report on a Science Day Exhibition held at premises of Arka Jain University.	10	CO1	K6	1
9.	Type a mail to your subject Teacher requesting him/her to upload question bank in a students' group of B.Tech.	10	CO2	K4	2
10.	Describe the detail format of Business Letter.	10	CO4	K5	2
11.	What is persuasive speaking? Do this type of public speaking can bring any fruitful results?	10	CO5	K3	3
12.	Is Time Management is important for HR of any company while presenting an important presentation?	10	CO5	K6	1

CO- Course Outcomes, KL- Knowledge Level, PO – Program Outcome

Course Outcomes	CO1	The mathematical tools needed in evaluating multiple integrals and their usage
	CO2	The effective mathematical tools for the solutions of differential equations that model physical processes
	CO3	The tools of differentiation and integration of functions of a complex variable that are used in various techniques dealing engineering problems
	CO4	Calculate the analytic function, evaluate complex integrals by using Cauchy-Goursat integral theorem
	CO5	To develop logical Understanding of the subject
	CO6	To make aware students about the importance between mathematics and engineering





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	ARKAJAIN University Jharkhand		**END TERM EXAMINATION**
Branch	**ME,CSE, EEE**	Program	**B.Tech**
Subject Name	**Engineering Matematics-2**	Semester	**IInd**
Course Code	**BTE2208**	Year	**2022/Even**
Time: 3 Hour Maximum Marks : 70	• Start writing from 2nd page onwards; **don't Write On The 1st Page Backside** • **Answer all Questions of Section A (Compulsory)** • **Answer Any Four out of Six of Section B** • **Answer Any Three out of Five of Section C** • **Possession of Mobile Phones** or any kind of **Written Material, Arguments with the Invigilator or Discussing with Co-Student** will comes under **Unfair Means** and will **Result** in the **Cancellation of the Papers.**		
Knowledge Level (KL)	**K1 :** Remembering	**K3 :** Applying	**K5 :** Evaluating
	K2 : Understanding	**K4 :** Analysing	**K6 :** Creating

Section A (Each question Carry 02 Marks from Q1a to Q1j) – 20 Marks

Q. No.1	QUESTION	Marks	COs	KL	PO
1a.	Solve $p^2+2xp-3x^2=0$	2	CO2	K3	PO1
1b.	Find the integration of $\int_0^1 \int_{x^2}^{2-x} xy dxdy$	2	CO1	K5	PO6
1c.	*Solve* $\frac{dy}{dx}e^{3x-2y}=x^2e^{-2y}$	2	CO2	K3	PO2
1d.	Write the C.G $(\bar{x}, \bar{y})$ of a plane lamina.	2	CO5	K1	PO1
1e.	Define Analytic function?	2	CO3	K2	PO1
1f.	Find the general solution of p=sin(y-xp).	2	CO2	K1	PO2

Q. No.	QUESTION	Marks	COs	KL	PO
1g.	Define Green's theorem?	2	CO6	K1	PO2
1h.	Find the polar form of the complex number z= 5-5i	2	CO5	K5	PO6
1i.	Find the C.F of the differential equation $\frac{d^2y}{dx^2} - \frac{dy}{dx} - 6y = xe^x$	2	CO2	K5	PO4
1j.	Write the standard form of Clairaut's equation.	2	CO2	K1	PO4

Section B (Answer any FOUR out of SIX) – 20 Marks (Each question 5 Marks)

Q. No.	QUESTION	Marks	COs	KL	PO
1.	If $\vec{F}=3xy\hat{\imath}-y^2\hat{\jmath}$ Evaluate $\int \vec{F}.d\vec{r}$ where C is the curve in the x-y plane $y=2x^2$ from (0,0) to (1,2).	5	CO1	K3	PO3
2.	Find the value of $\int_{-1}^{1}\int_{0}^{z}\int_{x-z}^{x+z}(x+y+z)dxdydz$.	5	CO1	K2	PO2
3.	Determine the analytic function whose real part is $y+e^x\cos y$.	5	CO3	K2	PO3
4.	Solve $\frac{d^3y}{dx^3}+2\frac{d^2y}{dx^2}+\frac{dy}{dx}=e^{2x}+\sin 2x$	5	CO2	K5	PO4
5.	If R: x+y=2, x=0, y=0 then evaluate $\iint(x+y)dxdy$	5	CO1	K5	PO1
6	Evaluate $\int_{1-i}^{2+i}(2x+iy+1)dz$ along the paths x=t+1, $y=2t^2-1$.	5	CO4	K3	PO2

Section C (Answer any THREE out of FIVE) – 30 Marks-(Each question Carry 10 Marks)

Q. No.	QUESTION	Marks	COs	KL	PO
1	Verify Green's theorem for $\int_c[(3x-8y^2)dx+(4y-6xy)dy$ where C is the boundary of the region Bounded by x=0,y=0 and x+y=1	10	CO1	K4	PO6
2.	Prove That the modulus of the sum of two complex numbers can never exceed the sum of their moduli.	10	CO3	K4	PO2
3.	Solve by one integration known method $x^2\frac{d^2y}{dx^2}-(x^2+2x)\frac{dy}{dx}+(x+2)y=x^3e^x$	10	CO2	K2	PO2
4.	Evaluate integration using polar coordinates $\iint_A \frac{x^2y^2}{x^2+y^2}dxdy$ where r is annulus between $x^2+y^2=4$ and $x^2+y^2=9$.	10	CO1	K4	PO3
5.	Derive the necessary condition for f (Z) to be analytic.	10	CO3	K2	PO1