Subject with Code: Technical Paper Writing & IPR (23HS0816)   **Course & Branch**:

B.Tech – Common to ALL

Year &Sem: III-B.Tech & II-Sem   **Regulation:** R23

UNIT –I
INTRODUCTION TO ACADEMIC WRITING
PART-A (2 MARKS)

1	a)	Define technical writing.	[L1][CO1]	2M
	b)	Define precision with one example.	[L1][CO1]	2M
	c)	What is meant by audience awareness?	[L2][CO1]	2M
	d)	Define ambiguity.	[L1][CO1]	2M
	e)	What is hedging in technical writing?	[L1][CO1]	2M

PART-B (10 MARKS)

2		Explain in detail the principles of technical writing with suitable examples.	[L2][CO1]	[10M]
3		Describe various styles of technical writing	[L3][CO1]	[10M]
4	a)	Explain the principles of clarity and precision with suitable examples.	[L2][CO1]	[5M]
	b)	Describe accuracy and objectivity in technical writing.	[L2][CO1]	[5M]
5		Explain conciseness, coherence, and logical sequence in technical documents.	[L2][CO1]	[10M]
6		Discuss ambiguity, repetition, and vague language and explain how to avoid them.	[L4][CO1]	[10M]
7	a)	Explain plagiarism and the need to avoid it in academic writing.	[L2][CO1]	[5M]
	b)	Explain how findings should be highlighted and limitations discussed in technical reports.	[L3][CO1]	[5M]
8		Discuss hedging and constructive criticism in technical and research writing.	[L5][CO1]	[10M]
9		Explain plagiarism, its types, and academic consequences.	[L5][CO1]	[10M]
10		Explain paraphrasing and its importance in avoiding plagiarism.	[L3][CO1]	[10M]
11		Analyze how technical writing principles improve the quality of research papers.	[L4][CO1]	[10M]

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QUESTION BANK (DESCRIPTIVE)

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UNIT –II
ACADEMIC JOURNAL ARTICLE

PART-A (2 MARKS)

1	a)	State the purpose of an abstract.	[L1][CO2]	2M
	b)	Define problem statement.	[L1][CO2]	2M
	c)	Define limitations of a study.	[L1][CO2]	2M
	d)	What is a review of literature?	[L1][CO2]	2M
	e)	What is a synopsis?	[L1][CO2]	2M

PART-B (10 MARKS)

2	a)	Explain the purpose and components of an abstract.	[L2][CO2]	5M
	b)	Differentiate between background and problem statement.	[L2][CO2]	5M
3		Explain research objectives and their role in guiding a study.	[L3][CO2]	10M
4		Explain limitations of a research study and suggest remedies.	[L4][CO2]	10M
5	a)	Discuss the importance of review of literature in research.	[L2][CO2]	5M
	b)	Explain how limitations affect research findings.	[L4][CO2]	5M
6		Compare background, problem statement, and objectives.	[L4][CO2]	10M
7		Explain synopsis preparation for a technical research paper.	[L3][CO2]	10M
8		Discuss the components of a research synopsis in detail.	[L3][CO2]	10M
9		Explain the logical flow from literature review to research questions.	[L4][CO2]	10M
10		Prepare a sample abstract for a technical research paper.	[L6][CO2]	10M
11	a)	Describe the structure and purpose of a synopsis.	[L2][CO2]	5M
	b)	Explain the relationship between problem statement and research questions.	[L4][CO2]	5M

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R23

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UNIT –III
ESSAY & WRITING REVIEWS

PART-A (2 MARKS)

1	a)	Define research.	[L1][CO3]	**2M**
	b)	What is meant by journal indexing?	[L2][CO3]	**2M**
	c)	State any two differences between a seminar and a conference.	[L1][CO3]	**2M**
	d)	What is plagiarism?	[L1][CO3]	**2M**
	e)	Name commonly used citation styles.	[L1][CO3]	**2M**

PART-B (10 MARKS)

2	Explain the process of research in detail, starting from problem identification to publication of results.	[L2][CO3]	10M
3	Describe the research publication mechanism and discuss the steps involved in submitting a research paper to a journal.	[L2][CO3]	10M
4	Classify the types of journals and explain the significance of journal indexing databases such as Scopus, Web of Science, and IEEE Xplore.	[L2][CO3]	10M
5	Discuss the role of seminars and conferences in academic research and explain their importance in knowledge dissemination.	[L2][CO3]	10M
6	Explain the importance of proofreading and plagiarism checking in research writing. Discuss acceptable similarity limits and ethical issues.	[L4][CO3]	10M
7	Write in detail about seminar and conference paper writing, highlighting structure, formatting, and presentation requirements.	[L3][CO3]	10M
8	Explain the structure of a research paper with special emphasis on methodology, results, and discussion sections.	[L4][CO3]	**10M**
9	Discuss various citation rules and referencing styles used in research publications (IEEE, APA, and Elsevier).	[L2][CO3]	**10M**
10	Compare journal publications and conference publications with respect to review process, impact, and academic value.	[L2][CO3]	**10M**
11	Explain the ethical considerations involved in research and publication, including plagiarism, authorship, and citation practices.	[L2][CO3]	**10M**