Hall Ticket Number:

Code No. : 22553

VASAVI COLLEGE OF ENGINEERING *(AUTONOMOUS)*, HYDERABAD
Accredited by NAAC with A++ Grade
M.E./M.Tech II-Semester Main Examinations, September-2022
Research Methodology and Intellectual Property Rights
(Common to all)

Time: **3 hours**   Max. Marks: **60**

*Note: Answer all questions from **Part-A** and any **FIVE** from **Part-B***

Part-A (10 × 2 = 20 Marks)

Q. No.	Stem of the question	M	L	CO	PO
1.	What are the different types of research?	2	1	1	2
2.	Give the different types of criteria's for a good research.	2	1	1	2
3.	Explain the need for literature review.	2	2	2	2
4.	List out the errors made in research.	2	1	2	2
5.	Name the different types of data grouping.	2	1	3	1
6.	What are the contents of a standard journal?	2	1	3	1
7.	What is a trade mark and what is the main purpose of its registration.	2	1	4	1
8.	What do you mean by intellectual property? Name the different types of IPR.	2	1	4	1
9.	What are the exclusive rights possessed by author?	2	3	5	1
10.	What do you mean by GI related to IPR with an example?	2	2	5	1

Part-B (5×8 = 40 Marks)

11.	What do you mean by research? Explain in detail the various steps in research process with a flow chart.	8	3	1	2
12. a)	What are different research ethics?	4	3	2	2
b)	What is plagiarism? What are the types of plagiarism? Name any two tools for detecting plagiarism.	4	2	2	2
13. a)	Explain the format of dissertation.	4	2	3	1
b)	Explain in detail about the format of research proposal.	4	3	3	1

			M	L	CO	PO
14.	a)	What is a patent? What are the criteria of patentability? Which inventions are not patentable?	3	3	4	1
	b)	explain with a flow chart, the procedure of filing a patent	5	2	4	1
15.	a)	Explain about the different rights under patent law.	4	2	5	1
	b)	Explain in detail about the plant patents.	4	2	5	1
16.	a)	What is primary and secondary data in data collection?	4	2	1	1
	b)	Discuss various tools and techniques of data collection used in research.	4	3	2	1
17.		Answer any *two* of the following:				
	a)	Steps involved in research report.	4	3	3	2
	b)	Industrial designs.	4	3	4	1
	c)	Literature survey in the identification of research question.	4	3	5	2

M : Marks;   L: Bloom's Taxonomy Level;   CO; Course Outcome;   PO: Programme Outcome

i)	Blooms Taxonomy Level – 1	20%
ii)	Blooms Taxonomy Level – 2	33%
iii)	Blooms Taxonomy Level – 3 & 4	47%

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