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M.E. / M.TECH. DEGREE EXAMINATIONS, MAY 2019

Second Semester

MC18081 – INTRODUCTION TO RESEARCH METHODOLOGY AND IPR

(Common to all branches except Biotechnology)

(Regulation 2018)

Time: Three Hours

Maximum : 100 Marks

Answer **ALL** questions

PART A - (10 X 2 = 20 Marks)

1. What are the general goals of scientific research?
2. Mention few common errors in selecting a research problem.
3. Distinguish between precision and accuracy.
4. Why it is important to record results?
5. Write about the significance of review article?
6. What is Hirsch index?
7. What is a provisional patent?
8. Write about geographical indications with few examples.
9. Justify the importance of IPR for start ups.
10. In short write about pros and cons of patent.

PART B - (5 X16 = 80 Marks)

11. (a) Explain in detail about Ethics in Research and its importance. **(16)**

(OR)

(b) Explain in detail about methodical approaches of investigating a research problem and finding solutions. **(16)**
12. (a) In research results how will you identify artifacts from true results and discuss about various ways of reducing artifacts. **(16)**

(OR)

(b) (i) Justify the importance of negative results and publishing the same. **(8)**
(ii) Write in detail about types of analysis. **(8)**

13. (a) What are the Do's and Don'ts of writing a research proposal? **(16)**

(OR)

(b) What is technical writing and how it can be made effective and publish it as a research article? **(16)**

14. (a) Write in detail about process of patenting and development. **(16)**

(OR)

(b) Write in detail about process of obtaining copyright and trademark. **(16)**

15. (a) Licensing and technology transfer: Write an essay on its importance with respect to IP. **(16)**

(OR)

(b) Explain in detail about the administration of IPR in India. **(16)**