Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ Total No. of Pages : 02

Total No. of Questions : 09

MECM (2015 & Onward)   (Sem.–1)

BASICS OF RESEARCH METHODOLOGY–I

Subject Code : MECM-103

Paper ID : [G1123]

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

Q1. Answer briefly :

a. What is research?

b. What is hypothesis?

c. Different types of variables.

d. Difference between sample and population.

e. Types of hypothesis.

f. What is significance level?

g. What is sampling frame?

h. What is the difference between qualitative and quantitative research?

i. What is a double barrel question?

j. What is questionnaire layout?

SECTION-B

Q2. What is research design? What is the need and importance of research?

Q3. What are multi-item scales? What is the difference between Likert scale and Thurstone scale?

Q4. What is survey of research literature? What is the need and importance of literature survey?

Q5. What is sampling error? What are the sources of sampling errors and how sampling errors can be minimized?

Q6. What is normal probability curve? What is its importance and applications in research?

SECTION-C

Q7. Discuss in length the different tools of data collection.

Q8. What is educational research? Discuss the steps involved in educational research.

Q9. Explain probability and non-probability sampling techniques with their merits and demerits.