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Total No. of Pages : 02

Total No. of Questions : 09

MECM (2015 & Onward) (Sem.-I)
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.