

Exam No: _____

GANPAT UNIVERSITY
M. TECH SEM- I (Electrical) REGULAR EXAMINATION– NOV-DEC-2014
3OS105: Technical Skills & Research Methodology

MAX. TIME: 3 HRS

MAX. MARKS: 60

Instructions: (1) This Question paper has two sections. Attempt each section in separate answer book.
(2) Figures on right indicate marks.
(3) Be precise and to the point in answering the descriptive questions.

SECTION: I

- Q.1** (A) Define 'Communication' and explain chain reaction in the context of communication. (05)
(B) What is Listening comprehension and what its types? (05)
- OR**
- Q.1** (A) What are the success and failure factors of interview? (05)
(B) What is Reading? How are sharp reading comprehension skills useful to the students and professionals? (05)
- Q.2** (A) How will you plan to make your presentation effective? (05)
(B) What is information gathering important in oral presentation? (05)
- OR**
- Q.2** (A) Draft a committee report as a committee head to be presented before the board members of the company regarding decline in sales of company products. (05)
(B) What are the 4Cs of effective writing? (05)
- Q.3 Do as directed.** (10)
1. She _____ all the data in a hard drive before she formatted her PC. (to store)
 2. They _____ the jungle for months now. They have collected substantial evidence. (to roam)
 3. Yesterday all the ministers _____ in the state assembly hall. (to call)
 4. The graph shows that the company sales _____ drastically since last January. (to decline)
 5. Although the soldier was wounded, he fought till he died. (Recognize the underlined parts of speech of the words)
 6. What _____ you _____ that you can compete with him? (make + think)
 7. The studies report that few cats like cold water. (Recognize the underlined parts of speech of the words)
 8. He was mending his bike yesterday. (Use a synonymous term for the underlined word)
 9. Do you think you can _____ your brother _____ this letter? (get + sign)
 10. He inspected the house carefully. (Give Nouns for the underlined words)

SECTION: II

- Q.4 (A) Explain the steps of formulating research problem. (06)
(B) What are the factors affecting the reliability of research instrument? (04)
OR
- Q.4 (A) What are the sources of research problem? Explain in brief. (04)
(B) How to establish the validity and reliability of a research instrument? (06)
- Q.5 (A) Write a short note on "Method of data collection". (05)
(B) Explain, what are the functions of hypothesis. (05)
OR
- Q.5 (A) Differentiate between applied and fundamental research. (05)
(B) Write a short note on "constructing hypothesis" (05)
- Q.6 **Attempt any two of the following.**
- (A) Explain the characteristics of objectives to be considered when formulating objectives. (05)
(B) Differentiate between descriptive versus analytical research. (05)
(C) What are the types of attitudinal scale? (05)
(D) Differentiate between the concept and variables. (05)

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