GANPAT UNIVERSITY

M.TECH SEMSTER – I (ELECTRICAL) REGULAR EXAMINATION – JANUARY -2013 3EE105: Technical Skills & Research Methodology

MAXM TIME: 3 HRS

MAXM MARKS: 70

(12)

Instructions:

- 1. Figures to the right indicate full marks.
- 2. Each section should be written in a separate answer book.
- 3. Be precise and to the point in your answer.

SECTION - I

Q.1	Define 'Communication' and discuss its process on the basis of Shannon's model.	(14)
-	OB	
Q.1	How, according to you, communication skills play instrumental role in the professional life	
	of an engineer?	
	the dos and don'ts of debating.	(11)
Q.2	What, according to you, is debate? Discuss the dos and don'ts of debating.	
		(12)
Q.3	Do as directed (Any TWELVE).	
	(1) My frienda recipient of the Nobel Prize. He received it in 1921. (Use proper form of	
	1. 17 hours a day to complete his War and Peace. (use would)	
	the wideo tutorial we just watched. (complement, complement,	
	on a truit dier. (lise proper torin of remain)	
	working for Nasa 101 a year. (Insert proper total	
	(1) II a look a horrible! He look good if he Deard. (Ose become contraction)	
	 (6) He looks holding: He looks is commitment. (Identify underlined words). (7) The cardinal key to success is commitment. (Identify underlined words). 	
	(9) Can you him the pill? (make, swallow)	
	(9) Why don't youyour room? It's quite filthy here. (get, clean)	
	(40) II Manual and atology westerday (Change the voice)	
	how it feels to be standing on the moon? (use proper form of wonder)	
	(a) of the talling the truth I know that she's a big flar. (call t/ woll the wollder the	
	(12) Vou must now your outstanding debts to live a peaceful life. (Identify indefinited word).	
	 (13) You must pay your ourstanting deste to provide help in the flood areas (effected/affected) (14) The committee is resolved to provide help in the flood areas (effected/affected) 	
	(14) The committee is resolved to prove 1	
	SECTION – II	
		(10)
Q.4	Define 'Listening' and discuss the traits of a good listener.	(12)
Q.4	OR	
0.1	Breners short notes for the following.	

- Q.4 Prepare short notes for the following.
 - (1) Strategies for effective reading comprehension
 - (2) Essential of formal writing skills
- Q.5 (A) Show how two coupled first order differential equations can model the behavior of two (05) fighting armies. Show how Lanchester's square law can be derived from the differential equations.
 - (B) We are going to use MATLAB function "ode45" to solve the above equation. The (06) differential equations are to be written in the form of MATLAB function named

Q.6 Draft the following business letters. (Any two)

- (1) Draft an inquiry letter for purchase of various electrical accessories for power plant.
- (2) Lodge a complaint for non-receipt of various winterwears.
- (3) Send out a reply to the retailer's inquiry for various electrical cables.

-----END OF PAPER----