## M.Sc. 3rd Semester Examination, 2019 ELECTRONICS

(History of Electromagnetic and Communication)

(Thoery)

PAPER - ELC-304(CBCS)

Full Marks: 50

Time: 2 hours

Answer all questions

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

1. Answer any four questions:

 $2 \times 4$ 

(a) What is Telegraphy?

	v		
( <i>b</i> )	What is half duplex communication systems? Give example.		
(c)	What is romer?		
( <i>d</i> )	What is a page?		
(e)	What is Morse Code?		
(f)	Name the patented device of J.C. Bose.		
(g)	What is Coheren?		
(h)	What is frequency spectrum?		
Answer any four questions: $4 \times 4$			
(a)	Describe frequency reuse on frequency planning with reference to mobile communication.	4	
(b)	Describe trunking system and Grade of Service (GoS).	4	
(c)	Define:  (i) Set up time  (ii) Holding time.  with reference to mobile communication.	4	

+
2
×

(a) What is Hands off? Describe the process of

Hands off.

3 + 5

( <i>b</i> )	Write down briefly about the scandal over
	Italian Navy Coherer as described by V.J.
	PHILIPS and P.K. Baneriee.

8

- (c) Who is Luigui Galvani? Write briefly about his experiment on animal electricity. 2 + 6
- (d) Write briefly about the experiment on wireless communication of J.C. Bose.

[Internal Assessment-10 Marks]