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1111	nted Pages: 3		NAE-001
(Following Paper ID and Roll No. to be filled in your Answer Books)			
Paper ID: 148611		Roll No.	
		в.тесн.	_
	Theory Exam	nination (Semester-	VI) 2015-16
	AIRCI	RAFT INSTRUME	ENTS
Time: 3 Hours		Max. Marks : 100	
		Section-A	ES
1.		ts. All Parts carry part in short May	equal marks. Write 30 words.
a.	Name five instrum	ents in coc <mark>kpit.</mark>	E E
b.	How many type of them.	f Numbering systems	are there? Name all of
c.	What is "data conversion"?		
d.	What are "logic ci	rcuits"?	
e.	What are integrate	ed circuits?	
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- f. What is full form of EICAS and GPS?
- g. Define the term "termination" in false optics.
- h. What is a microprocessor?
- i. What is "BITE"?
- j. What is a "decoder"?

Section-B

- 2. Attempt any five question from it is section. $(5\times10=50)$
- a. Describe the overall operation of a microprocessor.
- b. What are the principles and operation of common types of displays used in modern aircraft.
- c. What are the advantages and disadvatages of fabre optic data transmission.
- d. Describe the operation of data buses in aircraft systems.
- e. Outline the grouping of dectronic instruments in the cockpit and explain any one grouping with the help of a sketch.
- f. Describe the operation and applications of digital to analog convertors.

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- g. Briefly explain the precautions in handling of components sensitive to electrostatic discharges.
- h. Explain the following:-
 - (i) Light emitting diodes
 - (ii) Control terminals

Section-C

Attempt any two of the following

 $(2 \times 15 = 30)$

- 3. Describe the following
 - (i) Electromagnetic compatibility
 - (ii) Global Positioning System
- 4. Name the various electronic display systems used in Aircraft. Explain Liquid Crystal Display with a sketch.
- 5. Write short note on three of the following:-
 - (i) TCAS
 - (ii) IRS
 - (iii) ECAM
 - (iv) HIRF
 - (v) EFIS

(3) P.T.O.