

[4218] – 6

F. Y. B. Sc. (Computer Science) Examination, October – 2012

**ELECTRONICS**

**(Paper - II)**

**11312 – Fundamentals of Digital Electronics**

**(2008 Pattern)**

**Time : Three Hours**

**Total Marks : 80**

- Note :**
- (i) *All questions are compulsory.*
  - (ii) *Use of non-programmable electronic calculator is allowed*
  - (iii) *Draw neat diagrams wherever necessary.*

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**Q. 1. Attempt all of the following questions : [8×2=16]**

- (a) What is parity? What is the use of parity bit?
- (b) State two de Morgan's theorems.
- (c) Define modulo of a counter. Give number of flipflops required for MOD 5 counter.
- (d) Write the formulae for output frequency and duty cycle for Astable multivibrator using IC 555.
- (e) Write truth table of 1 : 2 demultiplexer.
- (f) Give the full form of EPROM and EEPROM.
- (g) For 4 bit R-2R type DAC with binary input 0101, find output voltage if  $V_{ref} = 5V$ .
- (h) What is the use of Assembler?

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*Paper*, 1987      Computer Information Systems and Industrial Management Khalid Saeed, Václav Snášel, 2014-10-25 This book constitutes the proceedings of the 13th IFIP TC 8 International Conference on Computer Information Systems and Industrial Management CISIM 2014 held in Ho Chi Minh City Vietnam in November 2014 The 60 paper presented in this volume were carefully reviewed and selected from 98 submissions They are organized in topical sections named algorithms biometrics and biometrics applications data analysis and information retrieval industrial management and other applications modelling and optimization networking pattern recognition and image processing and various aspects of computer security

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