

[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?

# Digital Electronics Question Paper With Answer

**Terry L. M. Bartelt**



## Digital Electronics Question Paper With Answer:

**Computer Assisted Learning 1989** M.R. Kibby,2014-05-23 This volume contains a selection of papers from the CAL 89 Symposium and includes papers on a wide range of topics related to computer assisted learning Papers selected include those from the following areas CAL design electronic mail and networks hypermedia learning and cognition multimedia CAL policy and practice and artificial intelligence techniques and knowledge base systems *BPSC Teacher Recruitment Examination (TRE 4.0) Computer Science* M. Kumari & C.B. Kumar, As I compiled this book my primary focus was to bridge the gap between studying hard and studying right Having analyzed the patterns of TRE 1 0 2 0 and 3 0 I realized that many students struggle not because of a lack of knowledge but because of a lack of practice on the NCERT and SCERT patterns that BPSC strictly follows Why this book is your best companion Authenticity Every Practice Set is designed to mirror the actual exam environment Clarity The solutions are not just keys they are detailed explanations to help you grasp the underlying concepts Relevance We have strictly adhered to the BPSC question format ensuring you manage your time effectively during the real test

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