SV-5

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F.E. (All Branches) (Part-I) (Semester - I & II) (Revised) Examination, May - 2018

FUNDAMENTALS OF ELECTRONICS AND COMPUTERS

Sub. Code : 59184

Day and Date : Saturday, 05 - 05 - 2018 **Total Marks : 100**

Time : 10.00 a.m. to 1.00 p.m.

Instructions :
1) **All questions are compulsory.**
2) **Figure to right indicates full marks.**
3) **Assume suitable data if necessary.**

SECTION-I

Q1) Solve any two: **[18]**

a) Explain FW rectifier using centre tap transformer with necessary waveforms.

b) What is De-multiplexer? Explain 1:8 De-mux with truth table.

c) Write short note on displacement transducers.

Q2) Solve any two: **[16]**

a) What is the need of biasing? Explain any one type of biasing circuit in detail.

b) Write short note on strain gauge transducer.

c) Explain J - K flip flop in detail.

Q3) Solve any two: **[16]**

a) Explain RC coupled Ce amplifier with suitable diagrams.

b) For CE configuration explain saturation, active and cut-off regions with I/P and O/P characteristics.

c) Explain any one type of displacement transducer.

P.T.O.

SECTION-II

Q4) Solve any two: **[18]**

a) List computer applications & explain any three in details.

b) i) Convert decimal number into hexadecimal

1) $(674325)_{10}$ 2) $(98665.214)_{10}$

ii) Convert Binary number into hexadecimal

1) $(1011110011)_2$ 2) $(111111.1111)_2$

c) Explain algorithm and flow chart for computer programming using suitable language.

Q5) Solve any two: **[16]**

a) Explain following UNIX/LINUX command with an example.

i) LS ii) CD

iii) CAT iv) MKDIR

v) PWD vi) CP

b) Explain in brief Assembler, interpreter and compiler.

c) Write short note on computer network.

Q6) Solve any two: **[16]**

a) Write short note on Internet WWW.

b) Write short note on applications of Computer.

c) Explain low level language and high level language in details.

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