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[5152]-139

S.E. (E & TC/Electronics) (II Sem.) EXAMINATION, 2017

COMPUTER ORGANIZATION

(2012 COURSE)

Time : Two Hours

Maximum Marks : 50

N.B. :— (i) Neat diagrams must be drawn wherever necessary.

(ii) Figures to the right indicate full marks.

(iii) Use of logarithmic tables, slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.

(iv) Assume suitable data, if necessary.

1. (a) What do you understand about pipelining ? Explain with suitable example. [6]
- (b) Perform the following division using restoring algorithm : [6]
divided=1001 and . divisor=0101

Or

2. (a) What is basic performance equation and how is it related to clock rate and compiler design ? [6]
- (b) Reprint the following numbers into single precision and double precision format : [6]
- (i) 309.1875
- (ii) 178.1875.

3. (a) Give the difference between hardwired control and micro-programmed control. [6]

P.T.O.

- (b) What is an interrupt ? What is the response of the CPU after recognition of interrupt ? [6]

Or

4. (a) What is multiple bus organization ? [6]
(b) Explain exception used for debugging the program. [6]
5. (a) Explain cache memory. Why is it used ? [7]
(b) Draw 1 bit memory cell and how it works. [6]

Or

6. (a) Explain the connection of the memory to the processor. [7]
(b) Write a note on semiconductor RAM memories. [6]
7. (a) Draw architecture of 8086. [7]
(b) Explain pipelining concept for 8086. [6]

Or

8. (a) Explain Logical to physical addressing of 8086. [7]
(b) Explain Segment Registers of 8086. [6]