(Pages : 2)

B.TECH. DEGREE EXAMINATION, NOVEMBER 2014

Fifth Semester

Branch : Computer Science and Engineering

CS 010 506 – ADVANCED MICROPROCESSORS AND PERIPHERALS (CS)

(New Scheme – 2010 Admission onwards)

[Regular/Improvement/Supplementary]

Time : Three Hours

Maximum : 100 Marks

Part A
Answer all questions.
Each question carries 3 marks.

1. Define : Data transfer.

2. What is called a flat memory model?

3. What is IDE?

4. What are the I/O ports?

5. What is flash memory?

(5 × 3 = 15 marks)

Part B
Answer all questions.
Each question carries 5 marks.

6. State the flag manipulation in 8086.

7. Write the additional features 80286.

8. State the functions and operations of SMPS.

9. Write the features of the Blu-ray disc.

10. Explain the importance of memory management.

(5 × 5 = 25 marks)

Part C
Answer all questions.
Each full question carries 12 marks.

11. (a) Explain in detail about the 8086 microprocessor architecture with neat sketch.

Or

(b) Write the instruction sets of 8086 in detail.

Turn over

12. (a) Explain in detail about the additional features of Pentium processors.

Or

(b) Write in detail about the latest processors of Intel and AMD.

13. (a) Explain the components and its functions associated with the motherboard.

Or

(b) Briefly explain the hard disc interfacing technology and state the limitations.

14. (a) Explain in detail about the optical storage technology and its advantages.

Or

(b) Write in detail about the magnetic storage technology in detail.

15. (a) Explain the advanced memory technologies in detail.

Or

(b) Explain the working principle of read and write operations from a flash memory and state the influencing parameters of speed of computation.

(5 × 12 = 60 marks)