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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2013

36

BIOMEDICAL ENGINEERING

VI Semester

BM9354 - INTERNET & JAVA

(Regulation 2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. What are the advantages of CSS? Specify cascading order rules.
2. What is the difference between HTML and DHTML.
3. What are JSP objects?
4. Design a java script page to check the given information is correct or not
5. What is the purpose of macromedia dreamweaver.
6. How to validate an XML
7. How does class accomplish data hiding?
8. How java is platform independent?
9. What is the relation between stub and skeleton with the web services.
10. Define web page design and web sites.

Part – B (5 x 16 = 80 marks)

11. Create an HTML page for Hospital management system containing a text, forms, frames, different background color for each pages. By using form collect the patient details; include disease, diagnostics and prescription. (16)

12(a). With a neat diagram explain the architecture of R8C Tiny microcontroller. (16 Marks).

(OR)

12(b)(i). With a neat diagram explain the timer y and associated registers of R8C Microcontroller. (8 Marks).

(ii). Briefly explain the interrupt process available in R8C Microcontroller. (8 Marks).

13(a). With a neat block diagram and schematic explain the system design technique for a fully automatic sphygmomanometer. (16 Marks).

(OR)

13(b). With a neat block diagram and schematic explain the system design technique for a coin enabled automatic Tea / Coffee vending machine. (16 Marks).

14(a). Discuss in detail the priority driven scheduling algorithms, preemptive and non preemptive with an example. (16 Marks).

(OR)

14(b)(i). Briefly explain the role of weighted round robin approach for scheduling time shared applications. (8 Marks).

(ii). With a neat block diagram explain the process involved in program generation from compilation through loading. Write short notes on offline versus online scheduling. (8 Marks).

15(a). With a neat wave form explain the inter integrated circuit protocol of 24C01 EEPROM. (16 Marks).

(OR)

15(b). Design a microcontroller based system for monitoring the respiration rate of a patient. It has to calculate and record the instantaneous rate and the average rate. It also have to give alarm if the condition is abnormal. Assume all other relevant details. (16 Marks).
