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16CS551

Fifth Semester B.E. Semester End Examination, Dec./Jan. 2019-20

ADVANCED WEB PROGRAMMING

Time: 3 Hours

Max. Marks: 100

- Instructions:** 1. Answer one full question from each unit.
2. Draw the diagrams wherever necessary.

UNIT - I

L CO PO M

- 1 a. List out difference between frames and hidden frames (1) (1) (1) (04)
- b. Explain HTTP responses along with status codes (2) (1) (1) (06)
- c. Write a short note on
i)Google Suggest ii)Gmail iii)Google Maps iv) Yahoo News v) Bitflux Blog (2) (1) (1) (10)

OR

- 2 a. List and Explain any six principles of Ajax. (2) (1) (1) (06)
- b. Describe with the diagram the advantages and disadvantages of XHR. (2) (1) (1) (04)
- c. Define Design patterns. Explain predictive fetch pattern and submission throttling pattern. (2) (1) (1) (10)

UNIT - II

L CO PO M

- 3 a. List the benefits of full stack development. (1) (1) (1) (05)
- b. Explain with the diagram one-way data binding and two-way data binding. (2) (1) (1) (10)
- c. Write a short note on hardware architecture for MEAN stack development. (3) (1) (1) (05)

OR

- a. Compare relational databases and document databases. (2) (1) (1) (05)
- b. Explain with the diagram MEAN stack architecture. Also explain the purpose of each technology in MEAN stack. (2) (1) (1) (10)
- c. List and explain rapid prototype development stages of MEAN stack architecture. (2) (1) (1) (05)

UNIT - III

L CO PO M

- 5 a. Explain request response flow of MVC architecture. (2) (1) (1) (05)
- b. The `add_review` page must contain a form with name, rating and review fields which the user will fill in and submit for a particular location. The appropriate error handling mechanism must be added for the submission of the form. Write the code for `add_review.jade` and design the appropriate desktop and mobile screen layouts for the same. (5) (2) (3) (10)
- c. Explain how you test routes and controllers. (2) (1) (1) (05)