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Question Paper Code: 40051

B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018 Second Semester Information Technology IT 8201 – INFORMATION TECHNOLOGY ESSENTIALS (Regulations 2017)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions

PART - A

(10×2=20 Marks)

- 1. What is the importance of Authoring Tools?
- 2. List any four browsers and state the basic functionality of a browser.
- 3. Give the general syntax for a function in PHP.
- 4. What will be the output of the following PHP code?

```
<? Php
$count= 1;
do
echo "$count times is12 ".count*12." <br>";
While (++$count<=3);
?>
```

- 5. How many bits does IPV6 address contain? How is it different from IPV4?
- 6. Differentiate WiFi and WiMax?
- Compare TDMA and FDMA.
- Calculate the reuse distance in cellular communication given the radius of a cell to be 10 sqkm and the number of user in the cell is 48.

ii) Explain the various networking topologies in detail.

(OR)

14. a) i) Explain with a block diagram in detail how different services are provided

Discuss in detail about the digital cell phone components.

THE BUT HE HEALTH STATE OF THE STATE 40051 -3b) i) Briefly discuss how call roaming service is carried out in cellular network. (6)(7) Explain about generation of cellular networks. 15. a) i) Design a simple personal information system that gives you reminders for each day. Identify the inputs to be taken, processing to be done and the output to be produced. What multimedia components can be added to this application? (6)ii) Explain the architecture of a generic search system. If this system is to be used for searching only images, which components would need to be changed and how? (7)(OR) b) i) Design a simple social-media application to pass on messages to friends about the birthday of individual (expect the birthday person) in the group to other friends. (6)ii) Design an application for a blood bank which accept blood request and based on the request (blood group) it identify the people from the database and send them the message. What are the important features needed for this? (7)PART - C(1×15=15 Marks) 16. a) Using DIV element, write HTML code to design a web site for a online catering service. The web site should provide some highlighting facilities provided by them. The web site must provide the available menu and cost-of each menu item in a tabular form. The web site must also accept the order form which includes any number of items and quantity required. Write script to validate the form and to compute the total amount to be paid. In the web site the images of the items should be displayed. Draw the layout of your web site first and write HTML code for each page. (OR) b) Using frame and form, design a web site for an orphanage which should accept donation from the people for 1 day lunch and medical assistance expense. It should also inform the donor how the donation has been spent. The web pages should be properly designed and should be viewed in any screen (mobile, pc). Amount transfer information should be done through validation. Draw the layout of your web site pages and write the code for each page.

(7)

(6)

(7)