

CAT 2

Sept 11, 2021

Instructions to candidates:

Attempt all questions

- a) Describe the terms as used in web services
 - (i) POX (1 marks)
 - (ii) REST (1 marks)
 - (iii) SOAP (1 marks)
- b) Describe the term Service Oriented Architecture (SOA) (2 marks)
- c) Explain any FOUR benefits of cloud computing (4 marks)
- d) Describe the term AJAX and explain how it is can be applied it in web development, stating its advantages (5 marks)
- e) PHP is one of the server side programming languages that you can use in your web applications. Write a PHP statement that can be used to:
 - (iv) Pass data from the PHP script to HTML so as to be viewed on a browser (1 mark)
 - (v) Pass data from HTML element called 'name' to PHP variable called \$name in script. (1 mark)
 - (vi) Connect PHP program to MySQL server (2 marks)
- f) Describe the following terms as used in service deployment/acquisition models in cloud computing (3 marks)
 - (i) Software as a service (SAAS)
 - (ii) Platform as a service (PAAS)
 - (iii) Infrastructure as a service (IAAS)
- g) Using a clearly labeled diagram, describe the term Model –View-Controller (MVC) as used in Internet and Web Programming (4 marks)
- h) Explain how the following trends are influencing the future of web design and development (5 marks)
 - (i) noSQL DBs
 - (ii) Easier Hosting, Deployment and Scaling
 - (iii) No-Touch Interfaces
 - (iv) Massively Online users
 - (v) Internet of Things

CAT 2

Sept 11, 2021

Instructions to candidates:

Attempt all questions

- a) Describe the terms as used in web services
 - (vii) POX (1 marks)
 - (viii) REST (1 marks)
 - (ix) SOAP (1 marks)
- b) Describe the term Service Oriented Architecture (SOA) (2 marks)
- c) Explain any FOUR benefits of cloud computing (4 marks)
- d) Describe the term AJAX and explain how it is can be applied it in web development, stating its advantages (5 marks)
- e) PHP is one of the server side programming languages that you can use in your web applications. Write a PHP statement that can be used to:
 - (x) Pass data from the PHP script to HTML so as to be viewed on a browser (1 mark)
 - (xi) Pass data from HTML element called 'name' to PHP variable called \$name in script. (1 mark)
 - (xii) Connect PHP program to MySQL server (2 marks)
- f) Describe the following terms as used in service deployment/acquisition models in cloud computing (3 marks)
 - (iv) Software as a service (SAAS)
 - (v) Platform as a service (PAAS)
 - (vi) Infrastructure as a service (IAAS)
- g) Using a clearly labeled diagram, describe the term Model –View-Controller (MVC) as used in Internet and Web Programming (4 marks)
- h) Explain how the following trends are influencing the future of web design and development (5 marks)
 - (i) noSQL DBs
 - (ii) Easier Hosting, Deployment and Scaling
 - (iii) No-Touch Interfaces
 - (iv) Massively Online users
 - (v) Internet of Things