

MGKVP University Question Paper
B.C.A. Examination, 2017

Fifth Semester

Second Paper

(Java Programming and Dynamic Webpage Design)

MGKVPonline.com

Time : Three Hours

Maximum Marks : 75

Note : Attempt any five questions. All questions carry equal marks.

Note: The answers to short questions should not exceed 200 words and the answers to long questions should not exceed 500 words.

1. (a) What is 'byte code' in Java? How it is related to Java Virtual Machine? 5
(b) Describe the mathematical operators used in Java. 5
(c) Write a program in Java to demonstrate the use of arrays. 5
2. (a) What is 'class' in java? How it is different with 'object'? 5
(b) What is Inheritance? Describe the types of Inheritance. 5
(c) What is multithreading programming? How it helps to improve the processing time? 5
3. (a) What is Java Applet? How it is different from Java Application program? 5
(b) Why applet is considered a secure program? 5
(c) Describe the Applet Life Cycle. 5
4. (a) What is AWT control? Describe the function of Button and label in applet. 5
(b) What is layout manager? How does it work? 5
(c) Describe any three string functions in Java. 5
5. (a) What is datagram socket? How it is different with TCP/IP based server socket? Explain with an example. 7½
(b) Explain how one can establish a connection between a Java Program and a database using JDBC? 7½
6. (a) What is HTML? Explain text styling features in HTML? 5
(b) Explain how we can link an image in webpage. 2+1
(c) What is <FRAMESET>? Write a frame set that divides the webpage in three vertical columns? How to add contents in frames? 7
7. (a) What is HTTP servlet? Explain servlets life cycle. 7½
(b) Explain session tracking in Java Servlets. 7½
8. (a) What do you understand by "Java Server Pages"? Explain the data types used in JSP. 7½
(b) Explain custom tag libraries in Java Server Pages. 7½
