



UNIVERSITY OF THE PUNJAB

Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No. in Fig.

Roll No. in Words.

PAPER: Computer-III

MAX. TIME: 15 Min.

Course Code: COMP-201/CMP-21316 Part-I (Compulsory)

MAX. MARKS: 10

Signature of Supdt.:

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question.

This Paper will be collected back after expiry of time limit mentioned above.

Q.1. Encircle the right answer, cutting and overwriting is not allowed. (1x10=10)

1. Which component is responsible for converting byte code into machine specific code?
a. a) JVM b) JDK c) JIT d) JRE
2. Which of the below is not a memory leak solution?
a. a) Code changes b) JVM parameter tuning
b. c) Process restart d) GC parameter tuning
3. Which of these interfaces is implemented by Thread class?
a. a) Runnable b) Connections c) Set d) MapConnections
4. Which tag should be used to pass information from JSP to included JSP?
a. a) Using <%jsp:page> tag b) Using <%jsp:param> tag
b. c) Using <%jsp:import> tag d) Using <%jsp:useBean> tag
5. What is it called where child object gets killed if parent object is killed?
a. a) Aggregation b) Composition
b. c) Encapsulation d) Association
6. Statements of JavaScript function are enclosed in.
a) { & } b) [&] c) (&) d) None of these
7. Which of the following is server side programming languages?
a) VbScript b) JavaScript c) JSP d) HTML
8. What kind of programming language is Java?
a) Object-oriented programming language b) Relational programming language
c) Sixth-generation programming language d) Database management language
9. The Extension with which web documents are saved is _____
a) .class b) .c c) .html d) .css
10. The
 tag is used to add _____
a) Long break b) Line break c) Braces d) All of these



UNIVERSITY OF THE PUNJAB

Third Semester – 2019

Examination: B.S. 4 Years Program

Roll No.

PAPER: Computer-III

Course Code: COMP-201/CMP-21316 Part – II

MAX. TIME: 2 Hrs. 45 Min.

MAX. MARKS: 50

ATTEMPT THIS (SUBJECTIVE) ON THE SEPARATE ANSWER SHEET PROVIDED

Q.2. Answer the following short questions.

(5x4=20)

- i. How do you create links to sections within the same web page?
- ii. Write an HTML table tag sequence that outputs the following:
150 pcs 1100 1500
110 pcs 15 150
- iii. How do you create a link that will connect to another web page when clicked?
- iv. What are two types of Web Storage in HTML5?
- v. What is the difference between final, finalize and finally as per JAVA?

Q.3. Answer the following Long questions.

(3x10=30)

- i. An anagram is a word or a phrase made by transposing the letters of another word or phrase; for example, "parliament" is an anagram of "partial men," and "software" is an anagram of "swear oft." Write a JAVA program that figures out whether one string is an anagram of another string. The program should ignore white space and punctuation
- ii. For each of the following pairs of concepts that are used in Java explain similarities and differences and discuss when you would use one rather than the other. If there are important syntactic differences, method names, degrees of generalization possible or the like, then any code fragments you give in illustration should be as short as possible to make the desired point.

(a) JApplet and simple Java applications.
(b) Vector<String> and arrays of strings (String []).
(c) class, abstract class and interface.
- iii. What is JDBC Connection? Explain steps to get Database connection in a simple java program and also write the java code as example.