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BR—147—2016

FACULTY OF COMPUTER STUDIES

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2016

(Revised Course)

COMPUTER SCIENCE

Paper S-3.2

(Java Server Pages, Servlets and Struts)

(Friday, 18-11-2016)

Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—100

N.B. :— (i) Attempt the following questions.

(ii) All questions carry equal marks.

1. (a) Discuss the advantages of servlets over traditional CGI. 10
- (b) Explain in detail the role of JSP. 10
- Or*
- (c) Discuss the basic servlet structure. 10
- (d) Explain servlet debugging. 10
2. (a) Explain installation and configuration of JDK and Apache tomcat. 10
- (b) Write in detail the single thread model interface. 10
- Or*
- (c) Discuss, how reading form data from servlet. 10
- (d) Explain sending and receiving cookies. 10
3. (a) Explain cookies attributes in detail. 10
- (b) Discuss the need for JSP. 10
- Or*
- (c) What is bean and why is it used ? 10
- (d) Discuss MVC framework. 10
4. (a) Explain basic components of struts. 10
- (b) Write in detail JDBC in general. 10

P.T.O.

Or

- (c) Discuss the installation of JSP. 10
- (d) Explain Request processing Engine. 10
- 5. Write short notes on any *four* : 20
 - (a) Servlet life cycle
 - (b) Benefit of JSP
 - (c) Session tracking
 - (d) Some problem of cookies
 - (e) Action class
 - (f) Import attributes.