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GF—16—2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (CS) (Fourth Semester) EXAMINATION

APRIL/MAY, 2023

(CBCS/Revised Pattern)

COMPUTER SCIENCE

Paper AF-18

(Programming in Java)

(Monday, 24-4-2023)

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

Time—Three Hours

Maximum Marks—75

N.B. — (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data, if required.

(iv) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.

1. Attempt any five of the following (3 marks each) :

15

Explain how java differ from C and C++.

Explain Java operators with example.

Explain use of 'this' keyword.

(d) Explain applet tags.

Explain method overriding with example.

Explain super method overriding.

Explain JVM.

P.T.O.

2. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain Java programming structure with example.
 - (b) Explain Java features.
 - (c) Explain abstract class with example.
 - (d) What is package ? How do you create and access package ?
 - (e) Explain types of streams.
3. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain final method and final class in brief.
 - (b) Explain data types in Java.
 - (c) What is inheritance ? Discuss types of inheritance.
 - (d) How do you define your own exception ? Explain with suitable example
 - (e) Explain how to create user defined exception.
4. Attempt any *three* of the following (5 marks each) : 15
- (a) Explain Stream Classes in Java.
 - (b) How do you define Class, Method and Objects ?
 - (c) Explain static members in Java. <https://www.srtmunonline.com>
 - (d) Explain architecture of JDBC.
 - (e) What is interface ? How do you define and implement interface ?
5. Write short notes on any *three* of the following (5 marks each) : 15
- (a) Visibility control in Java
 - (b) Exception handling mechanism
 - (c) Finally clause
 - (d) Serialization and Deserialization
 - (e) Branching Statements in Java with example.