Reg. No. ☐☐☐☐☐☐☐☐☐

III Semester B.C.A.4 Degree Examination, November/December 2018
OOPS USING JAVA (Regular)

Time : 3 Hours

Max. Marks : 80

Instructions : *i)* *All sections are compulsory.*

ii) *Draw neat diagrams wherever necessary.*

SECTION – A

1. Answer the following questions : **(2×10=20)**

   a) Define AWT.

   b) What is garbage collection ?

   c) What is vector ? List any two methods.

   d) What is multithreading ?

   e) What is super and this keywords ?

   f) What are access modifiers in java ?

   g) What is exception handling ?

   h) What is applet ?

   i) What is typecasting in java ?

   j) Explain the line "Public static void main (String args [ ])'.

SECTION – B

Answer **any four** of the following : **(5×4=20)**

2. Explain the java program structure.

3. What is package ? Write down steps for creating user defined package.

4. Explain applet life cycle with neat diagram.

5. Write a java program to demonstrate at least 5 string methods using scanner class.

6. Explain with File reader and File writer concept.

SECTION – C

Answer **any four** of the following : **(10×4=40)**

7. a) What do you mean by unchecked exception ? Write a program to illustrate try, catch and finally statements.

   b) Write a note on graphics class and methods. **(5+5)**

8. a) Explain method overriding with example.

   b) Difference between C++ and java. **(5+5)**

9. Write short note on :

   a) Final keyword

   b) Synchronization in threads

   c) Static method

   d) Wait ( ) and Sleep ( ).

10. Explain with example wrapper classes ? Write a java program to implement wrapper classes and their methods.

11. Explain method overloading with example.

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