

# 17515

**21819**

**3 Hours / 100 Marks**

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

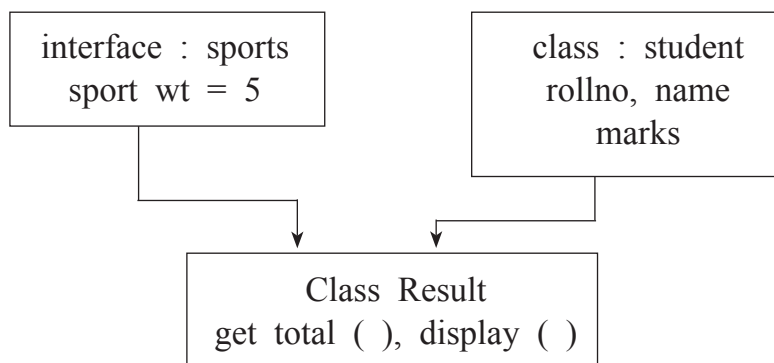
1. a) Attempt any THREE of the following: 12
- (i) Define exception. How it is handled?
- (ii) W.A.P to check the given no is prime or not.
- (iii) Write a syntax to inherit one interface into another interface.
- (iv) List and explain Applet attributes.
- b) Attempt any ONE of the following: 6
- (i) Explain package creation with suitable example.
- (ii) Explain serialization with suitable example for writing an object into file.

P.T.O.

- 2. Attempt any TWO of the following:** **16**
- a) Explain any four methods of graphics class.
  - b) W.A.P to throw authentication failure exception if the user has entered wrong password i.e. accept the password from user and then recheck it if it is properly entered then valid user else exception should throw.
  - c) Explain thread life cycle with neat diagram.
- 3. Attempt any FOUR of the following:** **16**
- a) Explain this keyword with suitable example.
  - b) Write a program to add two strings using command line argument.
  - c) Give four differences between strings class and string buffer class.
  - d) Explain thread priority and method to get and set priority values.
  - e) Write a program to copy the content of one file into another.
  - f) Give four difference between applet and application.
- 4. a) Attempt any THREE of the following:** **12**
- i) Explain shift right and shift left operators.
  - ii) List the standard default values of each data type.
  - iii) Explain vector methods:
    - 1) add Element ( )
    - 2) insert Element At ( )
  - iv) Explain stream and various types of streams.
- b) Attempt any ONE of the following:** **6**
- (i) Explain dynamic method dispatch.
  - (ii) Explain class variables with suitable example.

**5. Attempt any TWO of the following:****16**

- a) Explain features:
- (i) Platform Independence
  - (ii) Robust
  - (iii) Dynamic
  - (iv) Object oriented
- b) What is inheritance? List types of inheritance and explain single level inheritance with example.
- c) W.A.P to implement the following inheritance:

**6. Attempt any FOUR of the following:****16**

- a) W.A.P to reverse a three digit number accepted from user.
  - b) Write a program to draw a triangle inside an applet.
  - c) W.A.P to display three concentric circles in a applet.
  - d) Explain set class with example.
  - e) Explain draw arc function with example.
  - f) Explain two dimensional array in Java with example.
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