

# **PACE Junior Science College**

ANDHERI / BORIVALI / DADAR / NERUL / POWAI / THANE

**STD: XII**

**DATE:**

**COMPUTER SCIENCE**

**MARKS: 50**

**TIME:**

**Prelim I Answer Key(paper I):**

Q.1 (A)

1. Latency
2. Searching
3. HR
4. Polymorphism

Q.1 (B) a) Explanation (3mks)

b) Algorithm with diagram (3mks)

c) i. Definition and example ( $\frac{1}{2} + \frac{1}{2}$ )

ii. Definition and example ( $\frac{1}{2} + \frac{1}{2}$ )

iii. Definition and example ( $\frac{1}{2} + \frac{1}{2}$ )

Q. 2 (A) a) i. Primary Key definition and example ( $\frac{1}{2} + \frac{1}{2}$ )

ii. Record definition and example ( $\frac{1}{2} + \frac{1}{2}$ )

iii. Field Definition and example ( $\frac{1}{2} + \frac{1}{2}$ )

b) Operator overloading definition with syntax (1+1)

Difference between member function and friend function (1mk)

c) 3 differences 1mark each (3mks)

Q.2 (B) a) Definition (1mk)

Explanation with example (3mk)

b) Definition (1mk)

Advantages three points (1  $\frac{1}{2}$ mk)

Disadvantages three points (1  $\frac{1}{2}$ mk)

Q.3 (A) a) Definition (1mk)

Difference two points (2mks)

b) Difference three points (3mks)

c) Each Definition (1mk)

(B) a) Definition	(1mk)
Three states	(3mk)
b) Constructor Definition	(1mk)
Destructor Definition	(1mk)
Example of each	(1mk)
Difference	(1mk)
Q.4 (A) a) Define Class	(1mk)
Class declaration	(2mks)
b) Define Virtual Function	(1mk)
State any Four Rules	(2mks)
c) Define Binary Tree	(1mk)
Terminologies (any 2)	(2mks)
(B) (a) Explanation of Paging with the Diagram	(2mks)
Explanation Segmentation with the Diagram	(2mks)
(b)Explanation of Bubble sort	(1mk)
Algorithm	(1mk)
Example	(1mk)
Complexity	(1mk)
Q.5 Please check and give marks for programs according to yourself	(10mks)