101 3 Hours / 70 Marks

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 devic permissible in Examination Hall.

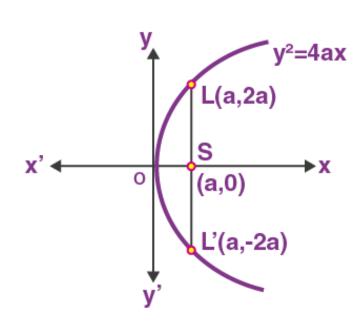
1. Answer any 5 questions:

a

Since the eccentricity of the parabola is 1, PM /PF = 1

PM = PF

Using the distance formula,



$$(xa)2+y2=|x+a1|$$

$$(x-a)^2+y^2=(x+a)^2$$

$$y2=4ax$$

$$Standard\ equation\ of\ Parabola$$

$$b$$

$$c$$

$$d$$

$$e$$

$$f$$

$$g$$

$$Answer\ any\ 3\ questions:$$

$$a$$

$$b$$

$$c$$

$$d$$

$$Answer\ any\ 3\ questions:$$

$$a$$

$$b$$

Answer any 2 questions:

Answer any 2 questions:

2.

3.

4.

5.

c d

a
b
c
d

abc