



- e) The population of a town in a decimal census is given below. Estimate the population for the year 1955.

Year (x)	:	1921	1931	1941	1951	1961
Population	:	46	66	81	93	101

(in thousand)

- f) From the following data find  $U_3$ , if  $U_4 = 0.35$ ,  $U_5 = 0.88$ ,  $U_6 = 1.71$ ,  $U_7 = 2$ ,  $U_8 = 4$ .

4. Attempt any four of the following :

16

a) Evaluate  $\int \frac{e^x (x+1)}{\cot(xe^x)} dx$ .

b) Evaluate  $\int x \tan^{-1} x dx$ .

c) Evaluate  $\int_0^2 \frac{1}{x^2 - 2x + 2} dx$ .

d) Evaluate  $\int_0^{\pi} x \sin^2 x dx$

- e) Using integration, find the area of the circle  $x^2 + y^2 = 9$ .

- f) Using integration, find the area bounded by the parabolas  $y^2 = 4x$  and  $x^2 = 4y$ .

5. Attempt any four of the following :

16

- a) Find  $y'(0)$  from the following data :

x	:	0	1	2	3	4	5
y	:	4	8	15	7	6	2

- b) Use trapezoidal rule to evaluate  $\int_2^7 \frac{1}{x} dx$ , divide  $[2, 7]$  into 5 equal subintervals.

- c) Using Simpson's  $\frac{1}{3}^{\text{rd}}$  rate, evaluate  $\int_0^1 \frac{1}{1+x^2} dx$ , dividing the interval  $[0, 1]$  into six equals parts. Hence find an approximate value of  $\pi$ .

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**Lingsheng Yao**



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