<u>Declaration</u>:

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2> USN	2GI19CS175.
3> B.E/M. Tech/MCA	B.E
4> Semester	. 3
5>Course Name	Startistical-Neumerical-Fourier
6>Course Code	18 MATCS 31
7) Name of Colg	KLS Geogle Institute of Technology
8) Date & Time	09-11-2020 ; 10:15 AM
2 1111 Nimber	+919972287030
I hereby declare the above best of my knowledge. Also I are regulations for online exams from	mentioned enjo is but to prece to obside all the and by the college
(0) Signature	Longoli

PART-A

13 n- (P+9)

2) Touce

3) $F(x) = \frac{g(x)}{\chi_n - \chi_{n+1}}$

4) Because there one on no. of possibilities for

60 PCED & REPORT (P) Et Sailine (9) = PF97

| Foreborbility of success (P) Et Sailine (9) = 1

PART-B

2GI19CS175

By data.

17 P(N < 45) = 31 1.

→ z=45-4 (z1, xay) WKT Z = X-M

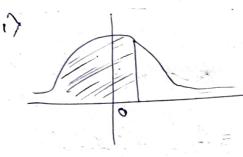
P(x<45)=0.31

2/x P(G4< N) = 8.1.

P(64<N) = 0.08

WKT Z= N-M -> Z= 64-M (ZZ, Nay).

P(64 < K) = 0.8



$$0.5 + \phi(z_1) = 0.31$$

 $\phi(z_1) = 0.31 - 0.5$

$$6.5 - \phi(z_2) = 0.08$$

$$\phi(z_2) = 0.42$$

Reflecting to narmal peobability, coe home. L p(Z2) = D.42 $\phi(z_i) = -\phi(0.5)$

Z2 = 1.44 IN = 1/019

$$= 0 + k + 2k$$

$$= 3k$$

$$P(k(3)) = 3 \quad \text{on } 0.3$$

$$|(NZG)| = |(N=G) + |(N=T)|$$

$$= 2K^{2} + 7K^{2} + K$$

$$= 9K^{2} + K$$

$$= 9 + 1$$

$$= 19 \text{ on } 0.19$$

=18C4+
$$\rho$$
 = success = $\frac{1}{10}$
 q = failure = $\frac{9}{10}$

we know that
$$P(u) = {}^{n}C_{n}P^{n}q^{n-n}$$

$$P(At least 4 out of 5 getshot) = {}^{5}C_{4}\left(\frac{1}{10}\right)\left(\frac{q}{10}\right) + {}^{5}C_{5}\left(\frac{1}{10}\right)$$

$$= \frac{45}{10^5} + \frac{1}{10^5}$$

$$= -4.6 \left(\frac{1}{10^5} \right)$$

1)
$$\int_{C}(x) = x^{2} - 5x + 2 = 0$$

Real lies in blow 4 k 5

CORT Rate = $Mn - \int_{C}(Mn)$

Ret Mo = $Mn - \int_{C}(Mn)$
 $Mn = Mn - \int_{C}(Mn)$

: [Real Root = 4.56158]

$$2n = \log_{10} n + 7$$

$$n = \log_{10} n + 7 = \phi(n)$$

$$\frac{1}{2} (n) = \frac{1}{2} (n) = \frac{1}{2} (n) = \log_{10} n + 7$$

$$(\cos n \sin n \cos n) = 2n \cdot \log_{10} n - 7$$

$$(\cos n \sin n \cos n) = (3 \cdot 7, 3 \cdot 8)$$

$$\begin{cases} (3 \cdot 8) = 0.0202 \\ (3 \cdot 8) = 0.0202 \\ (1 \circ (3 \cdot 8)) = -0.1815 < 1 \end{cases}$$

$$k = |\phi(3 \cdot 8)| = 0.1815 < 1$$

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$$k = |\phi(n)| = |\log_{10} (n) + 7| = \log_{10} (3 \cdot 7) + 7| = 3.7841$$

$$(n_{1} = |\phi(n_{1})|) = |\log_{10} (n_{1}) + 7| = \log_{10} (3 \cdot 7841) + 7| = 3.7887$$

$$(n_{2} = |\phi(n_{1})|) = |\log_{10} (3 \cdot 7887) + 7| = 3.7892$$

$$(n_{3} = |\phi(n_{3})|) = |\log_{10} (3 \cdot 7872) + 7| = 3.7892$$

$$(n_{4} = |\phi(n_{3})|) = |\log_{10} (3 \cdot 7872) + 7| = 3.7892$$

$$(n_{5} = |\phi(n_{5})|) = |\log_{10} (3 \cdot 7872) + 7| = 3.7892$$

$$(n_{7} = |\phi(n_{3})|) = |\log_{10} (3 \cdot 7872) + 7| = 3.7892$$

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2) $g(n) = 2n - \log n - 7 = 0$

3.) Calvan:

$$y' = n - y^2$$
, $y_0 = 1$, $y_0 = 0$
 $y_0 = y_0 + \frac{(n - n_0)y'_0}{1!} + \frac{(n - n_0)^2y''_0}{3!} + \frac{(n - n$

 $(y(0.1) = y + (0.1 - 0)y'_0 + (0.1)y''_0 + (0.1)^2 y''_0 + ($

= $1 + 0.1(-1) + 0.00(0.1)^{2}(3) + (0.1)^{2}(-8) + 6$ 0.1 + 0.015 -0.001 +...

y(0.1) = xxxxx 0.91366