CITY COLLEGE

DEPARTMENT OF MATHEMATICS

Schedule for Online Internal Assessment 2021-2022

Semester-VI

Date: 10.06.2022

Semester	Stream	Paper	Date of Exam	Time of Exam	Submission email id
		CC13	16.06.2022	1:00PM-1:30PM	Cu112mtmasem6@gmail.com
	Honours	CC14	16.06.2022	3:00PM-3:30PM	Cu112mtmasem6@gmail.com
VI		DSE A(2)	17.06.2022	1:00PM-1:30PM	Cu112mtmasem6@gmail.com
		DSE B(2)	17.06.2022	3:00PM-3:30PM	Cu112mtmasem6@gmail.com
	General	DSE B	16.06.2022	3:00PM-3:30PM	Cu112mtmgsem6@gmail.com

Note:

- 1. Question Papers will be available in respective Whatsapp groups 15 minutes prior to the starting of the examination on the scheduled days.
- 2. Scanned copies of answer scripts should be sent to the respective email ids within 15 minutes after the examination in a single pdf.
- 3. Question Papers for General Exams will be available on college website 15 minutes prior to the starting of the examination on the scheduled days.

Sd/- Sd/Principal Head, Dept of Mathematics
City College City College

CITY COLLEGE

Internal Assessment-2022

B.Sc. Semester – 6 (Under CBCS System) HONS & GENERAL Examinations, 2022.

Calcutta University Roll Number											
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Calcutta University Registration Number														
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B.Sc. Semester – 6(Under CBCS System)	YEAR : 2022
Subject	
Course (Hons./Gen)	
Paper	
Date of the Exam.	

Internal Assusment-2022 Sub: Mathematics (MTMG) Sem-6 General Paper - DSE-B

[Full Marks-10]

[Time-30 Min]

Choose the correct one obtain only: [Answer any fine of the inverse haplace transform of F(s) = \frac{5+3}{5^2+25+1} is @

2 te-t+e-t, & (3t+1)\(\text{e}\)t, & (3\(\text{e}\)t, & (4t+1)\(\text{e}\)t. 2> The solution of 1mg -y=1; y(0)=y(0) =0 is (a) 3(3+1)(3+2), (b) 3(3+1)(3-1), (c) 3(3+1), (d) 3(3-1) [where L \f(t)] = F(5)]. 3) The haplace transform of eat cos(wt) is given by

(a) s-a
(s-a)+wr, (b) (s-a)+wr, (c) (s-a)+wr

(s) If f(t) is a function defined for all t >0, its haplace

transform F(s) is defined as

(a) setf(t) dt, (b) setf(s) dt, (c) setf(t) dt, (d) setf(t)

(a) setf(t) dt, (b) setf(s) dt, (c) setf(t) dt, (d) setf(t)

(d) setf(t) dt, (e) setf(s) dt, (e) setf(t) dt, (e) se 5> The sequence lim [3+(-)n] is @ Convergent, & Divergent, & Oscillatory, & Harmonie. 6) If the ordinary generating function of a sequence $\{a_n\}_{n=0}^\infty$ is $\frac{1+\pi}{(1-\pi)^3}$, then a_3-a_0 is equal to $(a_1-\pi)^3$ $(a_1-\pi)^3$ (a_2-a_0) (a_3-a_0) (a_3-a_0)

Thich of the following is not Dirichlet's 2 condition for the Forvier series enpansion? 2 (2) fm) is periodic, single realized, finite. (5) fm) has finite number of discontinuities enough one period.

Ofen has finishe number of maxima and minima,

Ofen has finishe number and single valued.

Ofen is periodic, infinite and single valued. (F) If the function f(n) is even, then which of the following is zero? O an, & bn, O ao, O none of the above.