

GURUDAS COLLEGE

(GOVT.SPONSORED)

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Date: 11.12.2020

B.COM SEM V (HONS.) INTERNAL EXAMINATION – 2020 SUBJECT – ECONOMICS II AND ADVANCED BUSINESS MATHS PAPER – DSE 5.1 A

Full Marks: 20 Time: 1hr

Group A

ECONOMICS II

Answer any two questions

 2×5

- 1. Distinguish between the concepts of 'stock' and 'flow' in macroeconomic theory.
- 2. What are the problems for calculating National Income?
- 3. Show that MPC + MPS = 1.
- 4. Distinguish between Demand-pull and Cost-pull inflation?

Group B

ADVANCED BUSINESS MATHS

1. Answer the following questions (any four)

$$2\frac{1}{2}$$
 x 4= 10

(i) If
$$y = log(sinx)$$
 then find $\frac{dy}{dx}$ at $x = \frac{\pi}{4}$.

(ii) If
$$A = \begin{bmatrix} 2 & -3 \\ 0 & 1 \end{bmatrix}$$
 and $B = \begin{bmatrix} -4 & -3 \\ 5 & 1 \end{bmatrix}$ then find $2A + B$.

(iii) Find
$$\lim_{x\to 0} \frac{\sqrt{3+x}-\sqrt{3}}{x}$$

(iv) Find $\int tanx sec^2x dx$

(v) Find
$$\begin{vmatrix} 1 & 1+x \\ 1 & 2 \end{vmatrix} = 0$$
 then find the value of x .

(vi) If $v = 3e^{-x} + 4e^{x}$ then find the second derivative with respect to x.