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1st Internal Assessment Examination, 2022
B. Com. (Honours) Semester – I
Paper – 1.4 CH, Subject: Business Mathematics (GE-1)

Examination Date: 08.01.2022

Time: 30 Minutes

Full Marks: 10 (5*2 = 10)

(Answer any five questions out of the followings)

Q1. Define the Logarithmical expression of $5^2 = 25$.

লগ-এর গাণিতিক-এ প্রকাশ করো।

Q2. Solve: (সমাধান করো:) $\frac{2^{-5} \times 2^3}{5^{-2} \times 2^2}$

Q3. Solve (সমাধান করো): $\frac{\log_5 25 + \log_3 81 - \log_4 16}{2 \log_3 9 + \log_5 25}$

Q4. Define a Set.

সেট -এর সংজ্ঞা দাও।

Q5. What is the Distributive Law of the Set Theory?

সেট এর বন্টন নিয়ম টি কী ?

Q6. If $A = \{4, 6, 9, 12\}$ and $B = \{2, 4, 5, 9, 11\}$, then find $(A \cup B)$ and $(A \cap B)$.

যদি $A = \{4, 6, 9, 12\}$ ও $B = \{2, 4, 5, 9, 11\}$, তবে $(A \cup B)$ ও $(A \cap B)$ এর মান নির্ণয় করো।

Q7. What is a null set?

ফাঁকা সেট কী ?

Q8. Solve (সমাধান করো): $\frac{\log_4 16^{-2} * \sqrt{2 \log_{16} 4}}{\log_{16} 4^{-2} * \sqrt{\frac{1}{2} * \log_4 16}}$

Q9. Write the laws of Logarithmic Operations.

লগ - গাণিতিকের নিয়ম গুলো কী কী ?

Q10. In a Class, there are fifty students out of which 30 students know Bengali, 25 students know English, and 15 students know Hindi. Only 10 students know both Bengali and Hindi, only 8 students know English and Hindi, and only 5 students know Bengali and English. Only 3 students know all three languages. How many students only know each of the three languages?

ইংরেজি প্রশ্ন দেখো :

[Students will take the Internal Assessment Examination at home and upload their Answer Scripts to the Email Address of Dr. Paritosh Chandra Sinha (PCS) at pcsinha.rm@gmail.com within 01:00 PM of the Examination Date as notified.]

[The Proforma of the Cover Page of the Answer Script is as usual]