Muhib Haider Dry Wednesday Due: 20-11-024 Subject:-Physics Q 7:-Data :- inductione of the coil=1 10 m. H = 1010 Resistance = R=200 voitage = V= 240V To Find: - Power dissipate= P=? Solution = By farmula- P- VICOSO $= \int \left(2 \times \pi \times \frac{180}{4} \times 10 \times 10^{3} \right)^{2} + (20)^{2} \int$ 20.32 1(3 6)2+400 = 20.32 \Q SO, I.ms = 240 = 11.81 Amp Now using 0 = tan a L/R $= tan^{-1} \frac{2\pi L}{R}$ $= tan^{-1} \left(2\pi \frac{180}{11} \cdot 10^{-2}\right)$ 20

= tan (36 = tan (0.18) D = 10.20° Now petting values in eq 1° = 27B9.6 W A chote wil, is also called an in-ductor, is used in circuits to block high frequency alternating current (AC) while allowing De and lower -Frequency ALS to pass through Some resons are below: -1) Descreases ownert. 2 Protects cinevits 3) Used in fluorescent loumps between the information and carrier is that

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the counter is a steady signal with a constant height and frequency, while the information is to signal that varies the carriers characteristics. The wants carries are the wants carry radio signals between 540 and 1600Hz Field does not include a vollage . It indenes a current . The derection of the included current depends on wethers the magnetic field is vianing on falling and it opposes the current in the undoices.