## 2021 级物理实验(上)期末大作业——答题纸(正反面打印) <sub>班级</sub> <u>B2/03/8</u> <sub>学号</sub> <u>[21/03/821</u> <sub>姓名</sub> <u>梁发铝</u> <sub>得分</sub>

一、计算题 1

解: 图1:70-28mm 图二:12.519mm

(上) 由题信, D=(20.41+20.34+20.40+20.46+20.40+20.40+20.40mm=20.41mm UB= Uinu= 2.02mm

UA = = 1.05x | (20.42-20.40)+ (20.34-20.41)+ (20.40-20.40)+ (20.46-20.41)+ (20.40

= フィ6435葉mm  $U_D = \sqrt{V_B^2 + V_A^2} = 2.048mm$ 

又1. D的表述式为 D= 10.410 ± 0.048 mm

二、计算题 2

解: (1) d= (41.10+41.11+41.16) /3=241.23mm h=(12.361-2005)mm=12.356mm

页),  $\nabla = \frac{\pi d^3h}{4} = \frac{3.14 \times 41.23 \times 12.356}{4} \text{ mm}^3 = 16488.237 \text{ mm}^3$   $= \frac{1.64888337}{655} \text{ /6.65} \times \text{ /6.44} \text{ mm}^3$ 

(1) V = 71 dth

西边取自然对数

InV= ln是+2lnd+lnh 対 lnV 対定ラ d与 h 的偏号: 2lnV = 士 +; 2lnV= fl 2d = 七 +; 2lnV= fl

図有。 年本 (2 光) + (以上) + (以L) + (UL) Uh=D.004mm

\$\forall Ud, UB=0.01mm

UA = \$\frac{1}{\sqrt{n}} \frac{1}{2} \cdirding = \frac{1}{2} \cdirding = \frac{1}{2}

 $(n=3, \frac{t}{\sqrt{n}}=2.48) = \int \frac{(41.20-41.23)^{\frac{1}{4}}(41.21-41.23)^$ 

= 0.0764mm

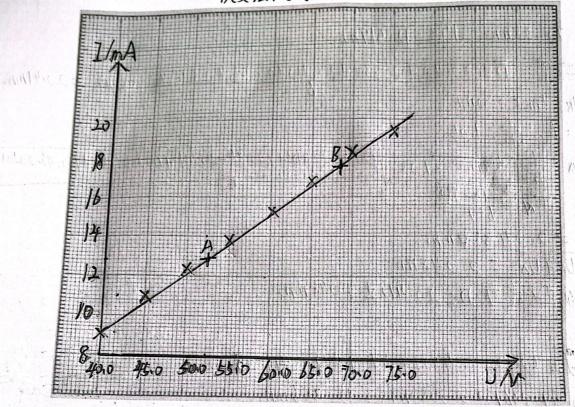
El. Ud = JUA+ UB = 3.0761 0:0790mm

Uv= VV4(Uh)+ (Uh) = ##0.007x 104mm3

D), V=V±Uv=(1.650+3.007)×104mm3 学号\_<u>B2/03/B21</u> 姓名\_子发程

三、作图题

张安注测待测电阻尺的保护U-1图



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解: 本图值及. 在图1. 光平两点Ac52.5, 12.8) 於序 C68.5, 17.6)

$$R = \frac{41.5 - 68.5}{12.8 - 17.6} \times 10^{3} = 3:3 \times 10^{3} \Omega$$

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