

Extra  
05 Copies



V.P. & R.P.T.P SCIENCE COLLEGE  
INTERANAL EXAM

F.Y.B.Sc.(SEM-I) INSTRUMENTATION (VOC.)

SUB: - Instrumentation system - I

SUB CODE: US01CINV21

DATE:-03/10/2019

TIME: 1:00 pm to 2:15 pm

MARKS-25

- Q-1 Choose correct answer [05]
- \_\_\_\_\_ is negative co-efficient of temperature. [05]  
(A) LDR (C) RTD  
(B) Thermistor (D) None of above
  - The current sensitivity of a meter is expressed in \_\_\_\_\_.  
(A) ampere (C) ohm/ampere  
(B) ohm/volt (D) None of above
  - Candela is unit of \_\_\_\_\_.  
(A) Temperature (C) luminous intensity  
(B) Mass (D) length
  - \_\_\_\_\_ is expressed as reproducibility of measurements.  
(A) Precision (C) Error  
(B) Accuracy (D) None of above
  - A resistor has colour band sequence blue, orange, silver, and silver than the resistor resistance value is \_\_\_\_\_.  
(A)  $63 \Omega \pm 10 \%$  (C)  $6.3 \Omega \pm 5 \%$   
(B)  $0.63 \Omega \pm 10 \%$  (D) None of above
- Q-2 List different type of fixed type resistor and explain any two in detail. [05]  
OR
- Q-2 List different type of fixed type capacitor and explain any two in detail. [05]
- Q-3 Explain cathode ray tube with necessary figure. [05]  
OR
- Q-3 Explain Digital voltmeter (DVM) with necessary figure. [05]
- Q-4 List and explain typical application of instrument system and explain any three in detail. [05]  
OR
- Q-4 Explain : (1) Deviation from mean [05]  
(2) Average deviation  
(3) Standard deviation
- Q-5 Enlist the electrical standards and explain any one in detail. [05]  
OR
- Q-5(a) The speed limit on a highway is 80 km/hr. Calculate the limit in (i) mi/hr [03]  
and (ii) ft/sec.
- Q-5(b) Express the density of water  $62.5 \text{ lb/ft}^3$  in (i)  $\text{lb/in}^3$  (ii)  $\text{g/cm}^3$  [02]