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|  | GOVERNMENTOFKARNATAKA  DepartmentofCollegiateandTechnicalEducation  **GOVERNMENT/AIDED/PRIVATEPOLYTECHNIC,456**  E-Mail:-Institute/Dept./Faculty(Official ID).456/EC/VEENA H K | FormNo: |
| Revision:  Date: |

INS-FORMAT-13

CIE1(written Test)

Institution Name: VIDYA VIKAS POLYTECHNIC Institutioncode:456

Name of the Program: ELECTRONICS & COMMUNCIATION ENGG Academicyear:2023-2024

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| **Course**  **Name** | | EMTT | **CIE (written Test)** |  | **Sem** | **3** | **Date:** |
| **Course**  **Code** | |  | **Duration** | **80mins** | **Marks** | **30** | |
|  | | **Note: Answer one full question from each section.** | | | | | |
| **Section** | **Assessment Questions** | | | **Cognitive**  **Levels** | **Course Outcome** | **ProgramOutcome** | **Marks** |
| I | 1)list the static characteristics  OR  List the dynamic characteristics  2) what is error & list the types of errors | | | L1(R) | 1 | 1,2,5 | 2x3=6 |
|  |  |
| II | 3)comparison of AC & DC bridge  OR  Applications of thermistors  4) Explain measurement & methods of measurements | | | L2(U) | 1 | 1,2,5 | 1x4=4  1x5=5 |
| III | 5) by using a micrometer screw the following reading were taken of a certain physical length 1.34, 1.38 , 1.56, 1.47, 1.42, 1.44, 1.53, 1.48, 1.40, 1.59 mm .assuring that only random error are present calculation the following  a) arithmetic mean b) average deviation c) standard deviation d) variance  OR  **6**) the given readings from micrometer lengths are 49.7,  50.1, 50.2, 49.6, 49.7 calculate the a) arithmetic mean  b) Deviation of each deviations c) algebraic sum deviations | | | L3(A) |  |  | 1x7=7 |
| 2 | 1,2,3,4 |
| IV | 7)following are the set of readings taken by two meter for a true  Value of 5 volts  Meter A 4.81 V 4.81 V 4.79 V 4.78 V  Meter B 4.92 V 5.09 V 4.83 V 5.16 V  Choose the meter with better precisions justify the answer after  Defining precisions | | | L4(AN) |  |  | 1x8=8 |
| 2 | 1,2,3,4 |