

18EES101J - CT-3 (02/08/2021; 09:00 am - 10:30 am)

Your email will be recorded when you submit this form

Not **kk1738@srmist.edu.in**? [Switch account](#)

Part-B

10 X 2 = 20 MARKS

The binary code of $(21.125)_{10}$

- ☒ 10101.001
- ☐ 10100.001
- ☐ 10101.010
- ☐ 10100.111

Clear selection

The representation of octal number $(532.2)_8$ in decimal is _____

- ☒ $(346.25)_{10}$
- ☐ $(532.864)_{10}$
- ☐ $(340.67)_{10}$
- ☐ $(531.668)_{10}$

Clear selection



If VP is denoted as the primary voltage, Vs1 and Vs2 are denoted by the secondary voltages of LVDT, then which of the following holds true

- ☐ VP, Vs1 and Vs2 are average values
- ☒ VP, Vs1 and Vs2 are peak values
- ☐ VP, Vs1 and Vs2 are constant values
- ☐ VP, Vs1 and Vs2 are RMS values

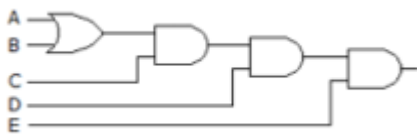
Clear selection

For a given transducer, closeness of a measured value to true value is defined as

- ☐ Precision
- ☐ efficiency
- ☒ accuracy
- ☐ reliability

Clear selection

Derive the Boolean expression for the logic circuit shown below



- ☒ $C.(A+B).D.E$
- ☐ $C.(A+B). D'. E$
- ☐ $A.B+C+D+E$
- ☐ $A.B.C.D.E$

Clear selection



A thermistor has

- ☐ positive temperature coefficient
- ☒ negative temperature coefficient
- ☐ zero temperature coefficient
- ☐ variable temperature coefficient

Clear selection

Which of the following is not a requirement of a transducer

- ☐ Ruggedness and no residual 8
- ☐ Linearity and repeatability
- ☒ Very low signal to noise ratio and presence of hysteresis
- ☐ Robustness and reliability

Clear selection

For the minterm designation $Y = \sum m(1, 3, 5, 7)$ the complete expression is

- ☐ $Y = A'B'C + AB'C$
- ☐ $Y = A'B'C + A'BC + AB'C + ABC$
- ☒ $Y = A'B'C' + A'B'C + A'BC + AB'C$
- ☐ $Y = A'B'C' + ABC + A'B'C + AB'C$

Clear selection



For the K map in the given figure the simplified Boolean expression is

		BC		
A	0	1	1	1
	1		1	1

- ☒ $A+B'C$
- ☐ $B+A'C$
- ☐ $C+A'B$
- ☐ $A'+BC$

Clear selection

Nominal measurements of LVDT lies in the range of

- ☐ nm
- ☒ mm
- ☐ km
- ☐ m

Clear selection

☐ Send me a copy of my responses.

[Back](#)

Submit

Never submit passwords through Google Forms.

This form was created inside of SRM Institute of Science and Technology. [Report Abuse](#)

Google Forms

