



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

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Name of Examination : **Summer 2021** - (Preview)

Course Code & Course Name : **IN355UX - Automotive Instrumentation Open Elective-II**

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Maximum Marks : **60**

Duration : **3 Hrs**

[Edit](#) [Print](#) [View Answer Key](#) [Close](#) **Answer Key Submission Type:** Marking scheme with model answers and solutions of numerical

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

1) Solve any three sub questions

- a) Describe open loop and closed loop control system in automobiles [6]
- b) With the help of diagram explain electronic engine control system [6]
- c) Write a note on 1) sensors 2) fuel economy [6]
- d) Explain Electronic Instrumentation system for different physical quantities measurement [6]

2)

Solve any three sub questions

- a) With the help of diagram explain Electronic ignition system [6]
- b) Explain Digital cruise control system [6]
- c) Explain Throttle angle sensor [6]
- d) Explain ABS system [6]

3) Solve any two sub questions

- a) Explain airbag technology [6]
- b) Explain lighting system component [6]
- c) Explain Automotive central locking and anti-theft system control technology [6]

4) Solve all sub questions

- a) Explain Automatic gear control system [6]
- b) Explain steering control techniques [6]

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