



GOVERNMENT COLLEGE OF ENGINEERING, JALGAON

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Name of Examination : **Winter 2020** - (Preview)

Course Code & Course Name : **IN305UZ - Open Elective-I-Introduction to BioMedical Engineering**

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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 two subquestions.

- a) Explain the Biomedical Instrumentation system with the help of a block diagram. [6]
- b) Write a short note on the classification of biomedical instruments. [6]
- c) Explain the cardiovascular system with the help of a diagram. [6]

2) Solve any two subquestions.

- a) Explain the ECG system with the help of a block diagram. [6]
- b) Write a short note on the respiratory system. [6]
- c) Write a short note on ECG leads. [6]

3) Solve any two subquestions.

- a) Explain the EEG system with the help of a block diagram. [6]
- b) write a short note on the nervous system. [6]
- c) Explain different types of muscles in brief. [6]

4) Solve all subquestions.

- a) Explain the EMG system with the help of a block diagram. [6]
- b) Explain the CAT scanner with the help of a block diagram. [6]

5) Solve all subquestions.

- a) Explain the magnetic resonance imaging system with the help of a diagram. [6]
- b) write a short note on DC defibrillators. [6]

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