24004

B.Tech. 2nd Semester F-Scheme

(Common for All Branches) Examination,

May-2019

BASICS OF ELECTRONICS

Paper-ECE-101-F

Time allowed : 3 hours]   *[Maximum marks : 100*

Note : Question No. 1 is compulsory. Attempt any one question from each section.

1. (i)   What is the amplifier and why their is need for cascading ?   4

    (ii)   What is CMRR and Slew rate ?   4

    (iii)   What are the differences between Zener and Avalanche breakdown ?   4

    (iv)   What is the use of acquadag coating ? Discuss.   4

    (v)   Discuss De-Morgan's theorem.   4

2. (a)   What is PN junction ? How it is formed ? Explain VI characteristics of junction diode.   10

    (b)   Explain the differences between intrinsic and extrinsic semiconductor.   10

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SECTION – A

2. (a)   What are different techniques of method study ?   10

    (b)   What are various incentive payment schemes ?   10

3. (a)   Explain the behavioural aspects in detail.   10

    (b)   Explain the various factors effecting the productivity.   10

SECTION – B

4. Write short notes on the following :   20

    (i)   EOQ

    (ii)   ABC

5. (a)   Explain the cost variance analysis.   10

    (b)   What is fixed and variable cost ?   10

SECTION – C

6. (a)   Discuss the concept of AQQL.   10

    (b)   Discuss the various decision options.   10

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7. Explain the following : 20

   (i) SQC

   (ii) Johnson algorithm for n-jobs.

SECTION – D

8. (a) What is the role of MIS in decision making ? 10

   (b) What is product life cycle ? 10

9. Write short notes on the following : 20

   (i) Role of 3 S 's

   (ii) Valve Engineering.

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