Roll No.

Course No.: EE-212(EE/CSE)

good Year B. Tech. of the Four Year Integrated Degree Course Examination, 2018-19 (COMPUTER SCIENCE AND

ENGINEERING/ELECTRICAL)

SEMESTER-I

LECTRICAL MEASUREMENT AND INSTRUMENTS

Time: Three Hours

Maximum Marks: 50

"Do not write anything on question paper except Roll Number otherwise it shall be deemed as an act of indulging in use of unfair means and action shall be taken as per rules."

- (i) Attempt five questions in all.
- (ii) The Question Paper has four Units. Each unit has two questions.
- (iii) Attempt at least one question from each Unit.
- (iv) Answer should be to the point.

M-V/205/I/2018-19/185/ZZ/160

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- (v) All questions carry equal marks.
- (vi) Assume suitable data, if necessary and indicate the same clearly.

UNIT-I

- 1. (a) Describe construction of Moving Iron Type Instruments with diagram also determine torque equation.
 - (b) Why Moving Iron Type Instruments are used in both AC and DC.
- 2. (a) Write short notes on the following:
 - (i) Current Sensitivity.
 - (ii) Voltage Sensitivity.
 - (b) Explain Construction and Working of Vibration

 Type Galvanometer.

 5

UNIT-II

- 3. (a) Distinguish between AC and DC type
 5
 Potentiometer.
 - (b) What are the problems Associated with AC Potentiometer? Describe the working of any one AC Potentiometer with neat sketch.

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magurement of High
Define the difficulties in measurement of High 5 Resistances.
Resistances. What are the different methods of measuring What are the Define substitution method
What are the unit of Define substitution method
(b) Linm Reside
Medium with neat diagram.
IINIT-III
Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phasor 5. (b) Derive the expression for the ratio and Phasor 5. (a) Derive the expression for the ratio and Phasor 5. (b) Derive the expression for the ratio and Phase 5. (c) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 5. (a) Derive the expression for the ratio and Phase 6. (a) Derive the expression for the ratio and Phase 6. (b) Derive the expression for the ratio and Phase 6. (c) Derive the expression for the ratio and Phase 6. (d) Derive the expression for the ratio and Phase 6. (d) Derive the expression for the ratio and Phase 6. (d) Derive the expression for the ratio and Phase 6. (d) Derive the expression for the ratio and Phase 7. (d) Derive the expression for the ratio and Phase 8. (d) Derive the expression for the ratio and Phase 8. (d) Derive the expression for the ratio and Phase 9. (d) Derive the expression for the ratio and Phase 9. (d) Derive the expression for the ratio and Phase 9. (d) Derive the expression for the ratio and Phase 9. (d) Derive the expression for the ratio and Phase 9. (d) Derive the expression for the ratio and Phase 9. (d) Derive the expression for the ratio and Phase 9. (d) Derive the expression for the ratio and Phase 9. (d) Derive the expression for the ratio and Phase 9. (d) Derive the expression for the ratio and Phase 9. (d) Derive the expression for the ratio and Phase
Derive the expression for the neat Phasor
5. (a) Derive the expression for the rather angle error of a CT with a neat Phasor
diagram. (b) Brief one method of Testing of Current 5
(b) Brief one
Transformer.
6. (a) Why Hay's bridge suited for measurement of
6. (a) Why Hay's bridge suited for Inductance of High Q Coils? Derive the equation 5
and the condition.
determine the relation
(b) For Anderson's bridge, determined the for unknown Impedance. What are the
for unknown Impedance. advantages and limitations of this bridge? 5
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UNIT-IV
7. (a) Explain Heterodyne wave analyzer with the help
7. (a) Explain Heterodylle Way
of diagrams.
of diagrams. (b) What are the advantages of Transistor Voltmeter (c) What are the Advantages of Transistor Voltmeter ?
(b) What are the automore Voltmeter? over the Vaccum Tube Voltmeter? P. T. O.
M-V/205/I/2018-19/185/ZZ/160 3

- s. (a) What are the Principal requirements in magnetic measurements?
 - (b) Write short notes on the following:
 - (i) TVM's using FET as input stage.

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(ii) Ramp Type Digital Voltmeter.

B. Tech. (CSE) (II Yr.)

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Second Year B. T
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- (ii) The Question P questions.
- (iii) Attempt at leas
- (iv) Answer

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Course No: CS-213 (CS)

Second Year B. Tech. of Four - Year Integrated

Degree Course Examination, 2018-19

(Computer Science Engineering)

SEMESTER-I

OBJECT ORIENTED PROGRAMMING WITH C++

Time: Three Hours

Maximum Marks: 50

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Roll number otherwise it shall be deemed as an act
of indulging in use of unfair means and action shall
be taken as per rules".

- (i) Attempt five questions in all.
- (ii) The Question Paper has four Units. Each unit has two questions.
- (iii) Attempt at least one question from each Unit.
- (iv) Answer should be to the point.
- (v) All questions carry equal marks.

P.T.O.

UNIT - I

- 1. (a) What is Object oriented programming? How day what is organized in an object-oriente program?
 - (b) Why do we need the preprocessor directive iostream and iomanip? Write unique advantages of object oriented programming paradigm.
- 2. (a) Write a function using reference variables arguments to swap the values of a pair integer.
 - (b) When will you make a function inline? How does an inline function is differ from a preprocessor macro?

UNIT - II

- 3. (a) What do you mean by constructor? How do we invoke a constructor function? Give an programming example.
 - (b) What is operator overloading? How many arguments are required in the definition of an overloaded unary operator? Give an programming example.
- 4. (a) What do you mean by dynamic initialization of objects? How you would create space for array of objects using pointers? Explain with example.

M-V/237/I-2018-19/110/ZZ/216

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What are the applications of "This" pointer? Explain array of pointer with programming example.

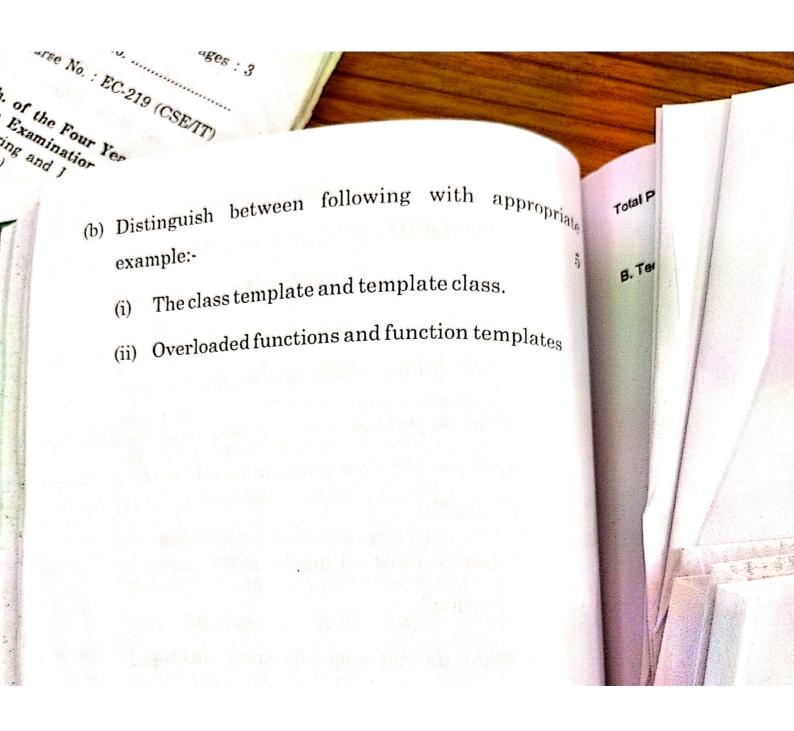
UNIT - III

- (a) What do you mean by Inheritance? Explain all types $_{
 m of\,Inheritance\,with\,programming\,example.}$
 - (b) What do you mean by polymorphism? Describe How an object of a class that contains object of other classes 5
- 6. (a) What is a virtual function? Why do we need virtual function?
 - (b) What do you mean by static function? When is a friend function compulsory? Give an example.

UNIT - IV

- 7. (a) What is a Stream? Describe briefly the features of I/O 5 system supported by C++.
 - (b) What is a file mode? Describe the various available 5 file mode options with example.
- 8. (a) What is an Exception? Explain Exception Handling mechanism with programming example.

M-V/237/I-2018-19/110/ZZ/216



Course No.: EC-219 (CSE) $app_{rop_{ri_{a_{l_e}}}}$ B. Tech. (CSE) Second Year B. Tech. of the Four - Year Integrated
Degree Course Examination 10 Degree Course Examination, 2018-19 $plate_{8}$ (COMPUTER SCIENCE ENGINEERING) SEMESTER- I ANALOG ELECTRONICS TIME: THREE HOURS Maximum Marks: 50 "Do not write anything on question paper except Roll Number otherwise it shall be deemed as an act of indulging in use of Unfair-means and action taken as per rules". The question paper has four units. Each unit has two questions. Attempt at least one question from each unit. (ii) (iii) Answer should be to the point. Assume suitable data, if necessary and indicate the same clearly. (iv) All que stions carry equal marks. (v) (vi) Draw the small signal high frequency model of common emitter (CE) configuration and explain significance of all resistive components. How amplifiers are classified? Explain different types of distortion in amplifier. Discuss the effect of emitter bypass capacitor on low frequency response of BJT What is transistor biasing? Explain voltage divider biasing in brief. 2. (b) An amplifier has voltage gain with feedback of 100. If the gain without feedback UNIT-II changes by 20% and gain with feedback should not vary more than 2%. Determine the values of open loop gain A and feedback ratio β. (a) 3. Give topology for various types of feedback amplifiers. (b) Scanned by CamScanner

- 4. (a) Describe the effect of negative feedback on the bandwidth and distortion in an
 - Describe the working principle of voltage series feedback and voltage shunt Describe the working principle of voltage shunt feedback. Also explain how input and output Impedances of an amplifier are

UNIT-III

- 5. (a) Derive expression for maximum efficiency of class B transformer coupled push-
 - (b) What is a cross over distortion? Explain how the harmonic distortion in push-pull
 - 6. (a) Draw equivalent circuit of capacitor coupled single tuned amplifier and derive the
 - (b) Discuss the effect of cascading tuned amplifiers in bandwidth.

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- 7. (a) What is CMRR? Write the ideal characteristics of an op-amp.
 - (b) Describe the construction of RC phase shift oscillator and explain its working.
 - 8. (a) Discuss the working principle of op-amp as a differentiator and comments on its
 - (b) In a Hartley oscillator, the value of the capacitor in tuned circuit is 500pF and the two sections of coil have indicated and 12mH Find the frequency of two sections of coil have inductances 38µH and 12µH.Find the frequency of

Roll No.: _____

Course No.: CS-214

B. Tech. (CSE) (II Yr.)

Second Year B. Tech. of the Four - Year Integrated

Degree Course Examination, 2018-19

(COMPUTER SCIENCE ENGINEERING)

SEMESTER- I PRINCIPLES OF PROGRAMMING LANGUAGES

TIME: THREE HOURS

Maximum Marks: 80

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- (i) Attempt any <u>FIVE</u> questions.
- (ii) The question paper has four units. Each unit has two questions.
- (iii) Attempt at least one question from each unit.
- (iv) Answer should be to the point.
- (v) All questions carry equal marks.

UNIT 1

- Q.1 (a) Differentiate between Assembly Language and Machine Language . 8
 - (b) What are the features of a good Programming Language? Explain with example.
- Q.2 (a) Why High Level Language is better than Low Level Language. Describe? 8
 - (b) Describe Virtual Computer. How can you design it, elaborate. 8

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Q8

What do you mean by pata Types. Also explain various data types. What do you mean between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with an expense between a Translator and a Compiler with a compiler wit	8
Q.3 (a) syplain the differ	kample 8
(b) Concept of Information Hiding in Programming Language. [a] Explain the concept of Information Hiding in Programming Language.	8
Q.4 (a) Explain the concept of Type. How is it implemented. (b) What is an Elementary Data	8
UNIT 3	
O5 (a) What is Inheritance. How is it implemented in programming language.	8
Q.5 (a) What is limes at the various types of sequence control in Programming Language. (b) Explain the various types of sequence control in Programming Language.	8
Q.6 (a) Explain Polymorphism with the help of an example in detail.	8
(b) What is Data Encapsulation. Why is it needed.	8
UNIT 4	
Q.7 (a) What is the point of having a garbage collector? Why not use malloc and f	ree. 8
(b) Differentiate between C and C++.	8
(a) Explain Static and Dynamic Scoping with their advantages and disadvantages	es.

Roll No.:

Course No.: CS-211

B.Tech. (CSE) (II Yr.)

Second Year B. Tech. of the Four – Year Integrated Degree Course Examination, 2018-19 (COMPUTER SCIENCE ENGINEERING)

SEMESTER- I DIGITAL LOGIC DESIGN

TIME: THREE HOURS

Maximum Marks: 50

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- (iii) Attempt at least one question from each unit.
- (iv) Answer should be to the point.
- (v) All questions carry equal marks.

UNIT-I

- Q.1 Convert the following:
 - (a) (1F8E6)₁₆ to Decimal
 - (b) $(-18)_{10}$ to 2's complement
 - (c) $(-25)_{10}$ to Binary
 - (d) (1001011)₂ to Gray Code
 - (e) (129)₁₀ to Excess-3 Code
- Q. 2 (a) Explain the characteristics of digital IC's.
 - (b) Explain the emitter coupled logic gate with diagram.

- (2)
- (2)
- (2)
- (2)
- (2)

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