Universidad Autónoma de Coahuila

Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15128916***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***PEDRO FRAIRE SOLÍS***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15132525***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JULIO CÉSAR LOZANO ALMAGUER***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15158174***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JORGE LUIS DÍAZ ENRÍQUEZ***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15149897***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***JULIO CÉSAR GARCÍA CASTILLO***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15133897***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***VÍCTOR MANUEL GARCÍA CARRILLO***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15132740***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JOVANA SOLEDAD GARCÍA REYES***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Facultad de Ingeniería Mecánica y Eléctrica

Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15141730***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***VÍCTOR MANUEL PUENTES RODRÍGUEZ***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15153534***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JOSÉ ANTONIO RINCÓN ACOSTA***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15149344***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***FABIÁN ALONSO SOTO LUNA***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15140545***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***MAYRA SELENE MIRELES CARDOZA***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15315202***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***ALAN M. CABRERA MORA***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***13056433***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***DANIEL ALEJANDRO CARRILLO HERNÁNDEZ***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15122162***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***ORLANDO BARBOZA GARCÍA***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***10069634***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***EDUARDO TORRES GOITIA***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15157355***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***VICTOR SIFUENTES VARGAS***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***14576492***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***JONATHAN RODRÍGUEZ CHÁVEZ***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***15129708***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***LUIS FERNANDO CASTAÑEDA QUIROGA***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***14317737***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ /10
Student's name	***VANESA IRANÍ MORA MORENO***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)

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Unidad Torreón

Subject	Semiconductor physics	Group	4A
Degree	Electrical engineering	Date	07/03/2017
Exam / Homework	Exam 1: Max time (1 hour 30 min)	Registration #	***7272835***
Professor's name	Dr. Suresh Kumar Gadi	Marks Obtained	_____ / 10
Student's name	***CASTREJÓN ALFARO SERGIO PABLO***		

Instructions

1. In the calculations, the student should maintain at least a precision of 3 decimal places with a correct rounding. (20% of the marks obtained will be reduced)

Questions

1. List all the elements with: (3 points)
   (a) four valance electrons.
   (b) three valance electrons.
   (c) five valance electrons.
2. Beyond which atomic number the elements show the property of radioactive decay (or nuclear decay)? (1 points)
3. What are the different allotropes of the carbon element? (3 points)
4. Draw and explain the monocrystalline silicon structure. (3 point)