RR

Set No. 2

II B.Tech I Semester Examinations, November 2010 INORGANIC CHEMICAL TECHNOLOGY Chemical Engineering

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. Write in detail the chemical reactions occur in the furnace of Glass manufacturing with temperatures. [16]
- 2. (a) Discuss about the radioactive nature of Radium?
 - (b) Discuss about its applications?

[10+6]

- 3. (a) What are the various fields of chemical engineering in which a chemical engineer is employed
 - (b) Explain the material balances, energy changes and energy balances in chemical process industries. [8+8]
- 4. Explain briefly about

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- (a) Sorel cement
- (b) Blast furnace slag cement
- (c) Role of Gypsum
- (d) Coloured cement

[4x4]

- 5. Explain the production of high purity gaseous oxygen from air using the cryogenic process with a flowsheet. [16]
- 6. (a) What are the special features and functions of a refractories as engineeing materials?
 - (b) Write notes on silicon carbide refractory.

[8+8]

- 7. (a) Mention the engineering problems involved in the crystallization process employed for the water conditioning.
 - (b) Explain the Reverse osmosis process employed for the separation of water from brine. [8+8]
- 8. (a) Explain the production of ammonium nitrate with a flow diagram.
 - (b) What are the uses of ammonium nitrate?

[12+4]

Code No: RR210804

RR

Set No. 4

II B.Tech I Semester Examinations, November 2010 INORGANIC CHEMICAL TECHNOLOGY

Chemical Engineering

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) What are the special features and functions of a refractories as engineeing materials?
 - (b) Write notes on silicon carbide refractory.

[8+8]

- 2. Explain the production of high purity gaseous oxygen from air using the cryogenic process with a flowsheet. [16]
- 3. (a) Mention the engineering problems involved in the crystallization process employed for the water conditioning.
 - (b) Explain the Reverse osmosis process employed for the separation of water from brine. [8+8]
- 4. (a) Explain the production of ammonium nitrate with a flow diagram.
 - (b) What are the uses of ammonium nitrate?

[12+4]

- 5. (a) Discuss about the radioactive nature of Radium?
 - (b) Discuss about its applications?

[10+6]

- 6. Write in detail the chemical reactions occur in the furnace of Glass manufacturing with temperatures. [16]
- 7. (a) What are the various fields of chemical engineering in which a chemical engineer is employed
 - (b) Explain the material balances, energy changes and energy balances in chemical process industries. [8+8]
- 8. Explain briefly about
 - (a) Sorel cement
 - (b) Blast furnace slag cement
 - (c) Role of Gypsum
 - (d) Coloured cement

[4x4]

RR

Set No. 1

II B.Tech I Semester Examinations, November 2010 INORGANIC CHEMICAL TECHNOLOGY

Chemical Engineering

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) Discuss about the radioactive nature of Radium?
 - (b) Discuss about its applications?

[10+6]

- 2. (a) Explain the production of ammonium nitrate with a flow diagram.
 - (b) What are the uses of ammonium nitrate?

[12+4]

- 3. (a) What are the various fields of chemical engineering in which a chemical engineer is employed
 - (b) Explain the material balances, energy changes and energy balances in chemical process industries. [8+8]
- 4. Explain the production of high purity gaseous oxygen from air using the cryogenic process with a flowsheet. [16]
- 5. Explain briefly about

Code No: RR210804

- (a) Sorel cement
- (b) Blast furnace slag cement
- (c) Role of Gypsum
- (d) Coloured cement

[4x4]

- 6. (a) Mention the engineering problems involved in the crystallization process employed for the water conditioning.
 - (b) Explain the Reverse osmosis process employed for the separation of water from brine. [8+8]
- 7. Write in detail the chemical reactions occur in the furnace of Glass manufacturing with temperatures. [16]
- 8. (a) What are the special features and functions of a refractories as engineeing materials?
 - (b) Write notes on silicon carbide refractory. [8+8]

Code No: RR210804

RR

Set No. 3

II B.Tech I Semester Examinations, November 2010 INORGANIC CHEMICAL TECHNOLOGY

Chemical Engineering

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. Explain the production of high purity gaseous oxygen from air using the cryogenic process with a flowsheet. [16]
- 2. (a) What are the various fields of chemical engineering in which a chemical engineer is employed
 - (b) Explain the material balances, energy changes and energy balances in chemical process industries. [8+8]
- 3. Write in detail the chemical reactions occur in the furnace of Glass manufacturing with temperatures. [16]
- 4. (a) Explain the production of ammonium nitrate with a flow diagram.
 - (b) What are the uses of ammonium nitrate?

[12+4]

- 5. (a) Mention the engineering problems involved in the crystallization process employed for the water conditioning.
 - (b) Explain the Reverse osmosis process employed for the separation of water from brine. [8+8]
- 6. Explain briefly about
 - (a) Sorel cement
 - (b) Blast furnace slag cement
 - (c) Role of Gypsum
 - (d) Coloured cement

[4x4]

- 7. (a) Discuss about the radioactive nature of Radium?
 - (b) Discuss about its applications?

[10+6]

- 8. (a) What are the special features and functions of a refractories as engineeing materials?
 - (b) Write notes on silicon carbide refractory.

[8+8]