Bs/CHEM.DSE-2(T) (AK)

2024

(CBCS)

(5th Semester)

CHEMISTRY

Paper: CHEM.DSE-2(T)

(Industrial Chemicals and Environment)

(PART : A—OBJECTIVE) (Marks : 25)

KEY ANSWERS FOR OBJECTIVES

- **A.** Put a Tick (✓) mark against the correct answer in the brackets provided : 1×15=15
 - 1. *(a)*
 - 2. *(c)*
 - 3. *(c)*
 - 4. *(c)*
 - 5. *(b)*
 - 6. *(c)*

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(2)

- 7. *(b)*
- 8. *(b)*
- 9. *(b)*
- 10. *(d)*
- 11. *(d)*
- 12. *(c)*
- 13. *(b)*
- 14. *(d)*
- 15. *(a)*

Bs/CHEM.DSE-2(T)
To be filled in by the Candidate
,
BA / BSc / BCom / BBA / BCA
5th Semester End Term
Examination, 2024 (CBCS)
Subject
Paper

Subject Code:

INSTRUCTIONS TO CANDIDATES

- 1. The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.
- 2. This paper should be ANSWERED FIRST and submitted within $\frac{1}{1}$ (one) Hour of the commencement of the Examination.
- 3. While answering the questions of this booklet, any cutting, erasing, overwriting or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.

Signature of Scrutiniser(s)

Signature of Examiner(s)

Booklet No. A

Date Stamp
To be filled in by the Candidate
BA / BSc / BCom / BBA / BCA
5th Semester End Term
Examination, 2024 (CBCS)
Roll No.
Regn. No
Subject
Paper
D
DESCRIPTIVE TYPE
Booklet No. B

Signature of Invigilator(s)



Bs/CHEM.DSE-2(T)

(CBCS)
(5th Semester)
CHEMISTRY
Paper: CHEM.DSE-2(T)
(Industrial Chemicals and Environment)
(PART : A—OBJECTIVE)
(<i>Marks</i> : 25)
The figures in the margin indicate full marks for the questions
A. Put a Tick (✓) mark against the correct answer in the brackets provided : 1×15=15
1. Which gas is commonly used in the large-scale production of ammonia?
(a) Nitrogen ()
(b) Oxygen ()
(c) Argon ()
(d) Chlorine ()
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2.		ch of the following gases is commonly used relding due to its high energy content?
	(a)	Helium ()
	(b)	Hydrogen ()
	(c)	Acetylene ()
	(d)	Neon ()
3.		t is the primary hazard associated with the dling of chlorine gas?
	(a)	Flammability ()
	(b)	Corrosiveness ()
	(c)	Toxicity ()
	(d)	Explosiveness ()
4	Whi	1 11 1 1 1
1.		ch acid is commonly used to produce lizers and explosives?
1.		lizers and explosives?
	fertil	lizers and explosives?
	fertil (a) (b)	lizers and explosives? Hydrochloric acid ()
•	fertil (a) (b) (c)	lizers and explosives? Hydrochloric acid () Sulphuric acid ()
	fertil (a) (b) (c) (d) What	lizers and explosives? Hydrochloric acid () Sulphuric acid () Nitric acid ()
	fertil (a) (b) (c) (d) What	lizers and explosives? Hydrochloric acid () Sulphuric acid () Nitric acid () Acetic acid () It is the primary application of potash alumedustries?
	fertil (a) (b) (c) (d) What in ir (a)	lizers and explosives? Hydrochloric acid () Sulphuric acid () Nitric acid () Acetic acid () It is the primary application of potash alumedustries?
	fertil (a) (b) (c) (d) What in ir (a) (b)	Hydrochloric acid () Sulphuric acid () Nitric acid () Acetic acid () It is the primary application of potash alumedustries? Bleaching agent ()
	fertile (a) (b) (c) (d) What in ir (a) (b) (c)	Hydrochloric acid () Sulphuric acid () Nitric acid () Acetic acid () at is the primary application of potash alumedustries? Bleaching agent () Water purification ()

6.		ch source of energy is considered wable?
	(a)	Coal ()
	(b)	Natural gas ()
	(c)	Solar energy ()
	(d)	Petrol ()
7.	Wha	t is the primary hazard in handling sulphur ide?
	(a)	Radioactivity ()
	(b)	Toxicity ()
	(c)	Explosiveness ()
	(d)	Corrosiveness ()
8.		ch process is used to prepare ultrapure als for semiconductor technology?
	(a)	Electrolysis ()
	(b)	Zone refining ()
	(c)	Blast furnace ()
	(d)	Smelting ()
9.	The	depletion of ozone is mainly due to
	(a)	oxygen gas ()
	(b)	CFC gas ()
	(c)	nitrogen gas ()
	(d)	carbon dioxide gas ()

10.	Which of the following organic substances make up the abiotic component of an ecosystem?
	(a) Protein ()
	(b) Carbohydrate ()
	(c) Lipid ()
	(d) All of the above ()
11.	The lowest region of the atmosphere is
	(a) thermosphere ()
	(b) mesosphere ()
	(c) stratosphere ()
	(d) troposphere ()
12.	Which of the following is not a primary air pollutant?
	(a) Sulphur dioxide ()
	(b) Nitrogen dioxide ()
	(c) Smog ()
	(d) Carbon monoxide ()

13.	Mere	cury vapour is
	(a)	major gaseous pollutant ()
	(b)	minor gaseous pollutant ()
	(c)	particulate pollutant ()
	(d)	secondary pollutant ()
14.	low	process of forcing a solvent to the region of soluble concentration from a high solute centration region through a semipermeable abrane by applying pressure is called
	(a)	ion exchange ()
	(b)	membrane filtration ()
	(c)	electrodialysis ()
	(d)	reverse osmosis ()
15.		solved oxygen (DO) comes under which gory?
	(a)	Physical characteristics ()
	(b)	Chemical characteristics ()
	(c)	Biological characteristics ()
	(d)	All of the above ()

B. Answer *all* questions :

2×5=10

1. Explain the primary use of argon in the industrial sector.

2. What are the environmental hazards associated with nuclear waste disposal?

3. Write a note on the greenhouse effect.

(9)

4. What is photochemical smog?

(10)

5. What is a hydrological cycle?

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