14CHU23

Exam Date & Time: 29-Sep-2020 (10:00 AM - 01:45 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image : 30mins

BSc DEGREE EXAMINATION MAY 2020 (Sixth Semester)

Branch - CHEMISTRY INORGANIC CHEMISTRY -II [14CHU23]

Duration: 210 mins.

1/2

Marks: 75

SECTION A

Answer all the questions. 1) Why lanthanides are called as inner transition elements? (2)Comment on lanthanide contraction. 2) (2)What are actinides? 3) (2)Mention the names of Transuranic Elements. 4) (2)5) Define radioactivity. (2)What is Half-life period? 6) (2)7) What are isotopes? Give examples. (2)Define isobars with suitable examples. 8) (2)9) What are carbides? How are they classified? (2)Write the uses of ionic nitrides. 10)(2)**SECTION B** Answer all the questions. 11) Explain the chemical properties of Lantanides. (5) a) [OR] Discuss the colour of Lanthanide compounds. (5) b) Explain the Actinide contraction and its consequences. 12) (5)

https://examcloud.in/epn/reports/exam-qpaper.php

11/28/2020	14CHU23	
	a contract of the second se	
a)		
[OR]	Discuss the comparison between lanthanides and actinides.	
Б)	r and actinues.	(5)
13)	How will you detect and determine the radioactivity by Geiger-Muller counter?	
a)		(5)
[OR] b)	Mention the contributions of radioactivity.	(5)
14)	Explain how the isotopes are separated by Thermal Diffusion Method.	(5)
		(5)
a) [OR]		
b)	Discuss the structure of Isotones.	(5)
15)	Explain the structure and properties of Sodium borohydride.	(0)
		(5)
a) [OR]	Disques about a	
b)	Discuss about non-aqueous solvents and their types.	(5)
1	SECTION C	(金)大手
	ut of 5 questions.	
16)	 i) Describe the extraction of Lanthanides from Monazite sand ii) Write notes on Lanthanide contraction. 	(10)
10		(10)
17)	Explain the various steps involved in the preparation of uranium from its ore.	(10)
18)	Discuss the theory of radioactive disintegration with suitable example.	(10)
19)		(10)
	 i) Explain in detail about Aston's mass spectroscopic method ii) Justify the structure of isotopes of hydrogen. 	(10)
20)	Describe the structure, preparation and properties of Lithium Aluminium hydride.	
	· · ·	(10)

-----End-----

tps://examcloud.in/epn/reports/exam-qpaper.php