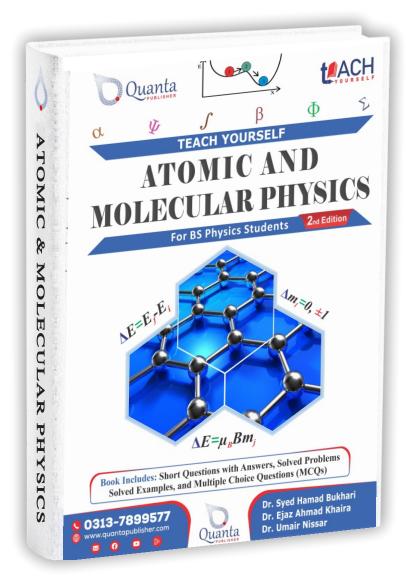
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GOVERNMENT COLLEGE UNIVERSITY, FAISALABAD

SUB CAMPUSES EXAMINATIONS (SPRING SEMESTER 2022)

Course Code: PHY-404

Class: BS PHYSICS Course Title: Modern Physics-II Semester: 4

Time Allowed: 100 minutes

Marks: 18

Session: 2020-2024

Attempt all the Questions.

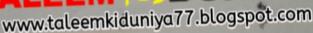
Q No.2

- Write the limitations of Bohr atomic model.
- What is sommarfeld model? Draw the schematic picture of sommerfeld elliptical orbit and also · give two guantization rule of sommerfeld model of atom.

O No.3



TALEEM DUN



> Describe the four quantum number for hydrogen atom. What are these quantum number associated with?

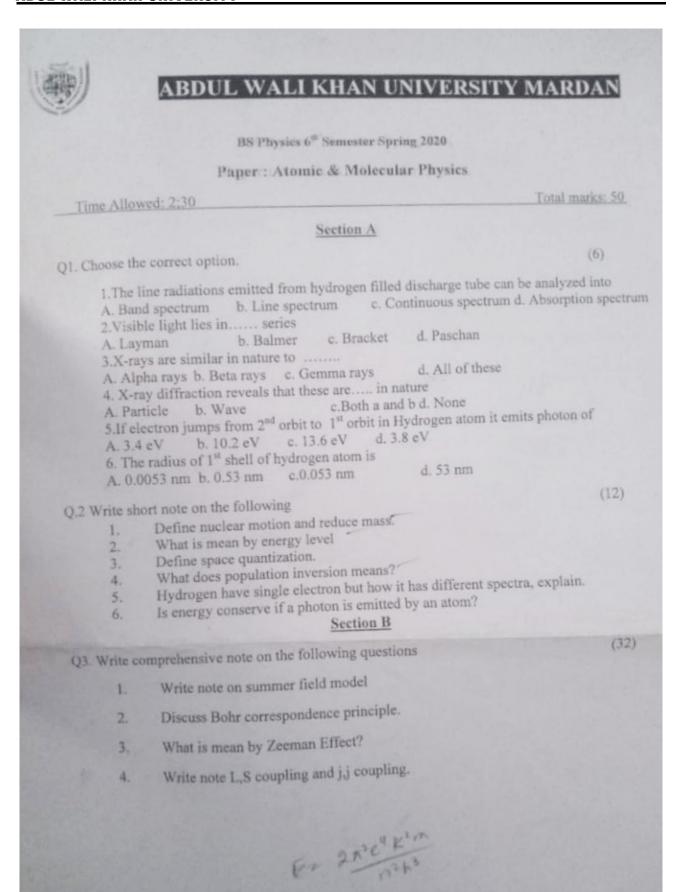
State and explain Pauli Exclusion Principle in detail.

O No.4

- > State and explain stark effect and also draw the schematic picture of splitting of spectral lines in absence and presence of electric field.
- How can we calculate the change in wavelength in Zeeman effect.

O No.5

- What are pumping scheme in laser? Explain optical and electrical pumping.
- What is spin orbit coupling.



BS Phy	sícs Mid	Test 2019	4t	h Semeste
Course	Code: Phy -404	Course title:- Mo	dern Physics II	
		ime:- 1 hour	Roll No	
		Myn		
Note:-	Attempt All Question	ons. Va>		
Note:- Q.1	Attempt All Question Define orbital Q	4.6	109.2	
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