

B. Sc. Third Year Science 2020-2021

GEOLOGY

The examination shall consist of three theory papers and one practical

Time: 3 hrs

MM 50

	Hrs per week	Exam. Hrs.	Marks
A. Theory Papers			
Paper I : Mineral Resources	2	3	50
Paper II : Geoexploration and Principles of Mining	2	3	50
Paper III : Geology of Rajasthan and Groundwater Geology	2	3	50
B. Practical:	4	4	75
	Total Marks		225

Part I – Ten questions (short type answer) two from each Unit will be asked. Each question will be of one mark and the candidates are required to attempt **ALL** questions. **Total - 10 marks**

Part II – Five questions (answer not exceeding 250 words) one from each Unit with internal choice will be asked and the candidates are required to attempt **ALL** questions. Each question will be of 05 marks. **Total 25 marks**

Part III – Four questions may be in parts covering all five Units (answer not exceeding 500 words) will be asked. The candidates are required to attempt any **TWO** questions. Each question will be of 10 marks. **Total 20 marks**

Checked and Approved
(-sd)

(Dr. Maya Chaudhary)

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(Dr. Harish Kapasya)

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(Mr. Subhash Chandra Janagal)

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Paper-I: MINERAL RESOURCES

Time: 3 hrs

MM 50

UNIT-I

Magma and its relation with mineral deposits. Elementary ideas of magmatic concentration and hydrothermal process.

UNIT-II

Elementary ideas of processes of ore formation by Sedimentation, Volcanogenic, Evaporation, Oxidation and Supergene Enrichment, Metamorphism, Mechanical and Residual Concentration.

UNIT-III

Brief idea of Contact metasomatism and skarn formation. Coal, Petroleum and Radioactive Mineral Deposits of India.

UNIT-IV

Brief knowledge of mode of occurrence, distribution, uses and origin of important metallic mineral deposits of India - Lead, Zinc, Copper, Iron,

UNIT-V

Brief knowledge of mode of occurrence, distribution, uses and origin of important non-metallic mineral deposits of India - Rock phosphate, Gypsum, Talc, Asbestos, Barytes, Fluorite, Garnet, Kyanite, Sillimanite and Clay deposits.

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