| 15U4 | | |
|-----------|---|------------------------|
| | | Reg. No |
| F | OURTH SEMESTER B.Sc. DEGREE EXAMINAT | ION, MAY 2017 |
| | (CUCBCSS-UG) | |
| | Geology - Core Course CC15U GL4 B07 - MINERALOGY | |
| | (2015Admission) | |
| Time: | Three Hours slavenim laix | Maximum: 80 Marks |
| I. Ans | swer all the ten questions: | |
| (zdrahlos | A mineral which cannot be scratched by corundum | |
| | A mineral which shows least alteration | |
| 3. | mineral shows double hardness | IV. Write essays on an |
| 4. | Chemical formulae of sphene | |
| 5. | Pyroxene which shows pink pleochroism | |
| 6. | Minerals which are extinct throughout 360° rotation und | ler crossed polars are |
| | called as and a note as a saturction of nicol's prism. Add a note | |
| 7. | A mineral which shows symmetric extinction | |
| 8. | Common alteration product of olivine Common alteration product of olivine | |
| 20 Marks) | Mica which is white in colour | |
| 10. | is known as 1λ (one lamda) plate | |
| | | (10x1 Marks) |
| | ine any ten questions in one or two sentences: | |
| | Mineral | |
| 12. | Luster | |
| 13. | Double refraction | |
| 14. | Refractive index | |
| 15. | Vander walls bonding | |
| 16. | Piezoelectricity | |
| 17. | Total internal reflection | |
| 18. | Optic axis | |
| 19. | Pseudomorphism | |
| . 20. | Indicatrix | |
| 21. | Varieties of corundum | |
| 22. | True colour of a mineral | |
| | | (10x2=20 Marks) |
| | | (IVAL EV HAIRS) |

| ц. | write short essay on any five of the following questions: |
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| | 23. Covalent and ionic bonds |
| | 24. Solid solution and exsolution |
| | 25. Hardness and cleavage |
| | 26. Polarized light CLA BOT - MAKENA AND USED OF COLUMN AND USED OF CO |
| | 27. Garnet group (noiseimbAc102) |
| | 28. Uniaxial and biaxial minerals |
| | 29. Quartz group |
| | 30. Cordierite and calcite and calcite and calcite |
| | mubnico yd bedstatte de scratched by connidum (5x6=30 Marks) |
| | |
| V. | Write essays on any two of the following: |
| | 31. Describe the Feldspar group of minerals. Add a note on their occurrence and |
| | 5. Pyroxene which shows pink pleochroismnoitaisoasa |
| | 32. Describe the optical properties of minerals. I sombo one dollar element of |
| | 33. Describe the construction of nicol's prism. Add a note on how it is used for |
| | determining order of interference colour of mineral de doidy leasning A |
| | 34. Describe the silicate structures with example. |
| | nuoloo ni olidwal doll (2x10=20 Marks) |
| | 10 is known as 1\(\lambda\) (one lamda) plate |
| | II. Define any ten questions in one or ******* lences: |
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| | 18 Optic axis |
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