

(4)

Unit-III / FkacF-III

6. Explain the following: 7 1/2

- (a) Cleavage in minerals.
- (b) Fracture in minerals

efrecvedueelKele keae Jecette keaepeS :

- (a) Keefrepell/cell/heelles peeves Jeeues kaieealepe kea Okeaej
- (b) Keefrepell/cell/heelles peeves Jeeues oeikeaej

7. Give the chemical composition, physical properties, occurrences and uses of minerals of Feldspar family. 7 1/2

Heaumehej meceh kea Keefrepell/kea jemeeluee/rekea mellešve, Yeeullekea iegeell/ GheefmLeele SJeB Gheueeie keae Jecette keaepeS~

Unit-IV / FkacF-IV

8. Give the chemical composition, physical properties, occurrences and uses of mica group of minerals. 7 1/2

ceeFkae mecepele kea Keefrepell/kea jemeeluee/rekea mellešve, Yeeullekea iegeell/ GheefmLeele SJeB Gheueeie keae Jecette keaepeS~

9. Write short notes on the following: 7 1/2

- (a) Silicate structures
- (b) Physical properties and chemical composition of feldspathoids.

efrecvedueelKele hej meefehle ešhneCeer dueeKeS :

- (a) efneuee/kaš mejj UeveeSl
- (b) Heaumehej meceh kea Keefrepell/kea Yeeullekea iegeell/SJeB jemeeluee/rekea mellešve

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(Printed Pages 4)

Roll No. _____

S-648

B.Sc. (Part-I) Examination, 2015

(Regular & Exempted)

GEOLOGY

Third Paper

(Crystallography & Mineralogy)

Time Allowed : Three Hours] [Maximum Marks : 50

Note : (i) Answer five questions in all.

(ii) Question No. 1 is compulsory.

(iii) Select one question from each unit.

(iv) Marks for each question are indicated in the margin.

(i) kegue heeble OelMveel/kea Goej oeepeS~

(ii) OelMve meB1 Deee/lee/ue&nw

(iii) OelUekea FkacF&mes Skea OelMve keaepeS~

(iv) OelUekea OelMve kea Dekea neeMeS cellwMees ieJes nQ

1. Write short notes to the following (in about 50 words each): 20

efrecvedueelKele kea ueleg Goej Deee/lee/uee 50 Meyoell/cellw/oepeS :

(2)

- (a) Physical Properties of muscovite
Develeä Keevepe keä Yeeüleä iege
- (b) Physical properties of two minerals of cubic system.
keilevekeä mecepele keä oes Keevepeell/keä Yeeüleä iegeell/keä JeCelle
- (c) Physical Properties of two minerals of garnet family.
iejevess mecepele keä oes Keevepeell/keä Yeeüleä iegeell/keä JeCelle keäepeS-
- (d) Types of lustre found in minerals
Keevepeell/wheelles peeves Jeeves Ueckaä keä ökeäej
- (e) Geode form
epelleo mJe™he
- (f) Solid angle
leve keäse
- (g) Prism
efepce
- (h) Open and closed forms
Kegeer SJeb yevo Deekääl eJel
- (i) Twin Laws
Ueaeve keä efleje
- (j) Axes of orthorhombic system.
Dekeej estyekeä mecepele keä De#e

(3)

Unit-I / FkeäF-I

- 2. What do you understand by crystallographic notation? Describe in detail with suitable diagrams. 7 1/2
epämŠueeesehekeä veesŠMeve mesDehekeä keälee Deell/öeäle nW? GheUgeä efleseeWÉej e meel emleej JeCelle keäepeS-
- 3. Write short notes on the following: 7 1/2
 - (a) Euler's formula
 - (b) Laws of constancy of interfacial angle
efrecveeüekEle hej me#ehle efšheäCelleB efueekES :
 - (a) Deäuej keä heäjeäuee
 - (b) Develejeäuekeä keäse keäer emLej lee keä efneäevle

Unit-II / FkeäF-II

- 4. Give the crystallographic axes, elements of symmetry of monoclinic system. Name any two minerals crystallizing in this system. 7 1/2
ceesekeäieeävekeä mecepele keä De#eell/SJeb meecceäle telJeell/keä JeCelle keäepeS~ Fme mecepele keä oes Keevepeell/keä veäe efueekES-
- 5. Write short notes on the following: 7 1/2
 - (a) Positive and Negative forms
 - (b) Domes
 - (c) Pyramids
efrecveeüekEle hej me#ehle efšheäCelleB efueekES :
 - (a) Oeeelckeä SJeb Še+Ceeelckeä Deekääl eJel
 - (b) [eseähe
 - (c) efheäeece[