

2019/TDC/ODD/SEM/GELDSC/ GELGE-301T/215

TDC (CBCS) Odd Semester Exam., 2019

GEOLOGY

(3rd Semester)

Course No. : GELDSC/GELGE-301T

(Petrology)

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

UNIT-I

- 1. Answer any three of the following: $1\times3=3$
 - (a) Which volcanic rocks contain the highest percentage of silica?
 - (b) Write the principal phase components of magma.
 - (c) What is the striking feature of Bowen's reaction series?
 - (d) If larger grains are surrounded by small grains, then that structure is called ____.

(Fill in the blank)

(Turn Over)

²⁰J/1248

GERGE-SUIT/215

http://www.elearninginfo.in

((3))

1×3=3

2. Write short note on any one of the following: 2 (a) Magmatic differentiation	6. Write explanatory note on any one of the following: (a) Mineralogical classification of igneous
(b) Assimilation 3. Write explanatory note on any one of the following: (a) Forms of igneous rocks	(b) Detailed petrographic description of gabbro [2:484] Gardello and to sord was reward of the control of the
(b) Types and mode of origin of igneous rocks UNIT—II 4. Answer any three of the following: 1×3=3	7. Answer any three of the following: 1×3= (a) What is the metamorphic product of sandstone?
(a) Write the principal mineral composition of gabbro. (b) Name two volcanic rocks. (c) Granite is characterised by type of feldspar. (Fill in the blank)	(b) Write the difference between weathering and erosion. (c) Name two rudaceous sedimentary rocks. (d) According to Wentworth's scale,
(d) On what basis igneous rocks are classified? The word of the following: 5. Write short note on any one of the following: (a) Granite (b) Rhyolite (b) Rhyol	particles having a diameter between 1 mm to 2 mm are described as (Fill in the blank) 8. Write short note on any one of the following: (a) Conglomerate (b) Sandstone
20J/1248 (Continued)	20J/1248 (Turn Over)

(5)

((84))

following: (a) Classification of sedimentary rocks	13. Answer any three of the following: 1×3=3
(a) Classification of section (b) Various structures of sedimentary rocks	(a) How do schists differ from phyllite?
in Defeiled WI—TINU bic description of	(b) Write the mineral composition of quartzite.
10. Answer any three of the following: 1×3=3	(c) Name the typical texture of marble.
(a) Define the term 'metamorphism' as applied to rocks.	(d) Write the possible mode of occurrence of gneiss.
(b) Name the agents of metamorphism. (c) What is the metamorphic product of	14. Write short note on any one of the following: 2
limestone? (d) Metamorphism involving substantial	(a) Slate
addition or removal of materials is generally termed as (Fill in the blank)	(b) Phyllite15. Write petrographic detail on any one of the following:
11. Write short note on any <i>one</i> of the following: 2	(a) Schist
(a) Zones of metamorphism (b) Grade of metamorphism	(b) Gneiss
12. Write explanatory note on any one of the following:	*** to dead to the second of
(a) Different types of metamorphism	
(b) Various textures of metamorphic rocks with neat sketches	
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