

PARUL UNIVERSITY
PARUL INSTITUTE OF APPLIED SCIENCES
MID-SEMESTER INTERNAL EXAMINATION, MARCH 2020
M. Sc. Semester II
Subject: Geology

Paper Code: 11211152

Title of the paper: Stratigraphy and Indian Geology

Date: 03/03/2020

Time: 2:30 to 4:00 pm

Maximum Marks: 40

Instructions:

1. *All questions are compulsory and options are given in first and second question only.*
 2. *Numbers to the right of question indicate the marks of respective question.*
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Q. 1 Write about the tectonics, stratigraphy and economic significance of Aravalli craton. **(08)**

OR

Write a short note on biostratigraphic units.

Q. 2 Attempt any three questions of the following. **(12)**

- (a) Geological time scale.
- (b) Write about the tectonics boundaries of Dharwar craton.
- (c) What is economic significance of Cuddpah Supergroup?
- (d) What kinds of folds are seen in the four generations of deformation in Aravalli Supergroup?
- (e) Write the stratigraphy of Vindhyan Supergroup.

Q. 3 Do as directed. (Attempt all five questions) **(05)**

- (a) Define chronostratigraphy.
- (b) What are the rock types seen in Dharwar Supergroup?
- (c) Write mineral assemblage of Charnockite rocks.
- (d) What is the depositional environment of Aravalli Supergroup?
- (e) What is the age of the Vindhyan Supergroup?

Q. 4 Choose the correct option of the following Multiple-Choice Questions (Write answer in your sheets) **(15)**

MCQ 1.	Pick the correct one from the given option			
	(A)	Main Boundary Thrust	(B)	Great Boundary Fault
	(C)	Bundelkhand Gneiss Complex	(D)	Achankovil Fold zone
MCQ 2.	The age of Aravalli Supergroup of rocks is			
	(A)	Cambrian	(B)	Archean
	(C)	Proterozoic	(D)	Haden
MCQ 3.	The Dharwar Supergroup of rocks are of _____ metamorphic facies.			
	(A)	Greenschist	(B)	Eclogitic
	(C)	Greenschist-amphibolite	(D)	Granulite
MCQ 4.	The phosphatic rocks or stromatolite is found in middle formation of _____.			
	(A)	Udaipur group	(B)	Aravalli
	(C)	Jharol group	(D)	Semri group

MCQ 5.	Among the following, the oldest rocks belong to			
	(A)	Sargur schist	(B)	Javanahalli
	(C)	Semri	(D)	Ajabgarh
MCQ 6.	The mineralization of the gold in KGF occurs as			
	(A)	veins	(B)	placer deposit
	(C)	Disseminated	(D)	Lodes
MCQ 7.	In Khetri Copper belt, the copper occurs in which host rock?			
	(A)	Sandstone	(B)	Shale
	(C)	Quartzite	(D)	Schist
MCQ 8.	The age of Breach Granite is dated at _____ by _____ technique.			
	(A)	2500 Ga, Pb/U	(B)	2550 Ma, Pb/U
	(C)	3500 Ma, Rb/Sr	(D)	2500 Ma, Sm/Nd
MCQ 9.	Match the minerals in Group I to the formation/group it occurs in from Group II			
	<p style="text-align: center;">Group I</p> <p>A. Pb-Zn B. Barite C. Sulfides D. Diamonds</p>		<p style="text-align: center;">Group II</p> <p>1. Wajrakarur 2. Chaibasa 3. Chitradurga 4. Zawar 5. Vempalle</p>	
	(A)	A -1, B -2, C -4, D -5	(B)	A -4, B -5, C -3, D -1
	(C)	A -4, B -3, C -5, D -1	(D)	A -4, B -1, C -3, D -5
MCQ 10.	The time-rock unit 'Stage' corresponds with _____ of the time units.			
	(A)	Epoch	(B)	Age
	(C)	Chron	(D)	Era
MCQ 11.	A zone is a _____ unit.			
	(A)	Lithostratigraphic	(B)	Biostratigraphic unit
	(C)	Magnetostratigraphic	(D)	Chronostratigraphic
MCQ 12.	The Pennsylvanian sub-period belongs to which of the following			
	(A)	Permian	(B)	Carboniferous
	(C)	Ordovician	(D)	Silurian
MCQ 13.	The Mesozoic group existed about _____ ago.			
	(A)	120 Ma	(B)	160 Ma
	(C)	150 Ma	(D)	280 Ma
MCQ 14.	Pick the incorrect option: _____ is not an acidic intrusion in the Aravalli craton			
	(A)	Seoli Granite	(B)	Bairat Granite
	(C)	Closepet Granite	(D)	Breach Granite
MCQ 15.	Pick the correct option of the units in descending lithostratigraphic order			
	(A)	Supergroup > Group > Members > Beds/Flow > Laminae	(B)	Supergroup > Group > Members > Laminae > Beds/Flow
	(C)	Laminae ≥ Beds/Flows > Members > Group > Supergroup	(D)	Supergroup > Group > Members ≥ Beds/Flow ≥ Laminae

-- All the Best--