Rayat Shikshan Sanstha's

Chhatrapati Shivaji College, Satara

(Automomous) M.A/M.Sc. (Part-I) (Semester-I) -2019-20

QUESTION BANK

GEOC 21 Fundamentals of Geomorphology

Question 1. A) Fill in the blanks (One mark Each)
1. Geomorphology is a significant branch of
2. Landscape is the function of structure, process and stage, is a dictum of W.M.Davis
3. 'Principles of Geology' are associated with the
4. The principle of uniformitarinism was given by
5. The term 'Geomorphology' was first used byin the year 1840. Arthur Keith
6. Continent and are first order landform on the earth crust. Ocean
7. Continental Slope is theorder landform on the ocean floor.(Third)
8. The term 'delta' first used by Greek geographer namely Aristotle
9. The term 'base level' postulated by J.W. Powell
10are consider to the concept of cycle of erosion. W.M.Davis
11propounded that the landscape is the function is the result of two competing
tendencies i.e. tendency towards variability and uniformity. Gilbert
12. Study of is the prime focus of geomorphology. Landforms
13. Sudden acceleration in erosive power of the fluvial process caused by variety of factor
is Catastrophism
14. There were several smaller inland seas scattered over the Pangaea which was surrounded by
huge water body, which known as Panthalasa
15. Lifting and rolling ofis deflation occurred by arid Region. Geo-material
16. The whole mechanism of the evolution motion and resultant reaction of plate is called
Plate tectonics
17. Tuzo Wilson 1965, university of Toranto first used the term Plate Tectonics
18. Theory of plate tectonics published byW.J.Morgan
19 Constructive, destructive and conservative are the margins or borders of Plate
20. The bounder between mantle and Core determiner by discontinuity. Moho

21. The bounder between lower crust and mantle determiner by discontinuity. Gutenberg
22. Exfoliation is a type ofMechanical weathering,
23. Seismic waves are recorded with the help of instruments known as Seismograph
24. The place of the occurrence of an earthquake is called focus and the place which experiences
the seismic event first is called Epicenter
25. Movement of rockwasteenblock down the hillslope is called
26. Seismic waves are recorded with the help of instruments known as Seismograph
27waves cannot pass through liquid materials. Secondary
28. The place of the occurrence of an earthquake is called focus and the place which experiences
the seismic event first is called Epicenter
29Lifting and rolling of geo-material is deflation occurred by Arid Region
30. Wearing away of land surface is a phenomena of Denudation
31. Uvala associaataed withregion. Karst
32. The breakdown of the rocks of valley side due to the impact of water currents of
Channel isHydraulic action
33. Sudden acceleration in erosive power of the fluvial process caused by variety of factor
is Rejuvenation
34. The final product of all denudational processes is Peneplain
35. A recent but significant branch of applied Geomorphology isGeomorphology.
Environmental
36. Writer of the book 'Geomorphology' published by prayagpustakbhavan isS.Singh
37. Stalagmites form inregion. Karst
38. Barchans are formed by action. Wind
39. The concept of Normal Cycle of Erosion was propounded by
40. U shaped vallies are formed byGlaciers
41. The greatest earthquake activities are concentrated in belt of Circum-Pacific
42 Caldera with cinder cone is landform produced byVolcanic Activity
43.Thewaves nottravel through the liquid part of the earth .secondary
44 The point on the earth surface immediately above the focus isEpi-centre

45 Extensive and broad fold consisting of several minor anticlines and synclines is FanFold
46 Horst is an elevated block between two normalFaults
47 fault is characterized by unequal and irregular limbs. Asymmetrical
48. Each geomorphic process produces its own characteristics assemblage oflandforms
49. Landscape is a function is structure, process andStage
50. Blow holes are the geomorphic features formed by Wind
51. Encyclopedia of Geomorphology is edited byFairbridge
52. Mushroom rock is associated with an action of wind
53.Rock fall and soil creep is a movement ofprcesss.Masswasting
54 is the mountain formed by folding process. Himalaya
55. Glacier is the mass of anwhich moves slowly down to the valley. ICe
56. The soil is the end product ofprocess. Weathering
57is known as the light house of the Mediterranean. Stramboli
58. The concept of geosyncline was propounded by
59 forces are responsible for the origin of mountains. Horizontal forces
60is considered to be the patron of science of geomorphology. W.M.Davis
61. The concept was sea floor spreading was proposed by H.Hess
62. Wave like bends form in the crustal rocks due to compressive force in interior of the earth are
calledFolds
63. Long but narrow ad shallow water depression characterized by sedimentation and
subsidence are calledGeosynclinec.
64. Wearing away of the land surface by erosion and weathering is termed as
Denudation
65. The concept of 'Base level' was enunciated by
66. The process of disintegration and decomposition of rocks, due to external forces, in situ is
known asWeathering
67. Fault is considered in theforces. Endogenetic
68.Study of is the prime focus of geomorphology.Landforms
69.Running water landforms are also known as

70. The Antarctic ice sheet is the best example of Continental glacier
71is the most powerful and effective erosive agent of coastal areas. Sea wave
72.Pot hole is considering the topography. Fluvial
73.Delta landform exists due to thework of running water. Depositional
74.In river the Grand Canyon is situated. Colorado river (USA)
75. Waterfalls are formed due to the erosional work ofRiver
76. Mushroom rocks are considered to the action of Wind
77. The average density of the whole earth is aboutg cm ⁻³ . 5.5
78.According to the nebular hypothesis the core of the earth should be in state.Liquid
79. Seismic waves are recorded with the help of instruments known as Seismograph
80waves cannot pass through liquid materials. Secondary
81has through light on the chemical composition of the earth's interior. E.Suess .
82. The bounder between mantle and Core determiner by discontinuity. Moho
83. The bounder between lower crust and mantle determiner by discontinuity. Gutenberg
84. The place of the occurrence of an earthquake is called focus and the place which experiences
the seismic event first is calledEpicenter
85.Landform are developed in limestone region are also called asKarst topography
86.Flood plains are landform. Fluvial
87 Sea wall can be cosstructed for the protection ofHarbors
88. Any change natural or man induced that may affect the geomorphic stability of a
landform ishazard. Geomorphic
89.Lifting and rolling of geo-material is deflation occurred by Arid Region 90.Wearing away of land surface is a phenomena of Denudation
90. Waddy are form by Aeolian
91.A large basin shaped volcanic creater is called
92. The breakdown of the rocks of valley side due to the impact of water currents of
Channel isHydraulic action
93.Sudden acceleration in erosive power of the fluvial process caused by variety of factor
is Catastrophism
94. The final product of all denudational processes isPeneplain

95. Valley deepening process take place during thesstage of river. Youth
96. Writer of the book 'Geomorphology' published by prayag pustak bhavan is S.Singh
97.Stalagmites form inregion.Karst
98.Barchans are form by Wind
99. The concept of Normal Cycle of Erosion was propounded by W.M. Davis
100. U shaped vallies are formed byGlaciers
101. Horns are produce by the erosional work ofGlacial
102. An upfold in thef straataa of the earth crust calledAnticline
103.Exfoliation is concerned withweathering. Physical
104. Karstification is domonated byUnderground water
105, Medial, terminal are the types of glacial moraine. Lateral
106. The greatest earthquake activities are concentrated in belt ofCircum-Pacific
107.Caldera with cone is landform produced by volcanic activity. Cinder
108. The waves travel through the solid and liquid part of the earth isPrimary
109. The point on the earth surface immediately above the focus isEpi-centre
110.Extensive and broadfold consisting of several minor anticlines and synclines isFan Fold
111. Horst is an elevated block between two normal Faults
112fault is characterized by unequal and irregular limbs. Asymmetrical
113. Each geomorphic process produces its own characteristics assemblage of landforms
114. Landscape is a function is structure, process andstage
115.Sand dunes are the geomorphic features formed byWind
116.Drumlins and the eskers are the features seen in the landscape of Glacier
B) Write a short note on any one of the following (Four marks each)
1.

3. Nature of Geomorphology

2. Scope of Geomorphology

- 4. Uniformitarianisam
- 5. Present is key to the past
- 6. Contribution of American Geographer
- 7. Characteristics of land watr distribution
- 8. Continental Drift Theory
- 9. Plate Tectonic Theory
- 10. Sea floor spreading
- 11. Convergent plate boundry
- 12. Divergent plate boundry
- 13. Transform plate boundry
- 14. Types of plates
- 15. Types of movement of plate boundry
- 16. Causes of volcanoes
- 17. Exogefnetic forces
- 18. Classification of forces
- 19. Types of Weathering
- 20. Process of Erosion
- 21. Process of mass movement
- 22. Chemical weathering
- 23. Biotic weathering
- 24. Factor affecting on physical weathering
- 25. Denudation
- 26. Agents of denudation
- 27. Fluvial process
- 28. Glacier types
- 29. Coastal Process
- 30. Sand Dunes formatin
- 31. Mushroom Rock
- 32. Erosional landform of river
- 33. Erosional landform of glacier

- 34. Erosional process of wind
- 35. Erosional landform of sea wave
- 36. Depositional landform of river
- 37. Erosion process of river
- 38. Depositional landform of wind
- 39. Depositional landform of sea wave
- 40. Features of youth stage of river Stages of river
- 40. Types of Himod
- 41. Wave cut landform

Question 2. A) Answer in one sentence (One mark each)

- 1. Who is the patron of Geomorphology?
- 2. What is Tiro of Davis?
- 3. Who is the author the book 'Geomorphology' published by Prayag Pustak Bhavan?
- 4. Who used the term first 'Geomorphiology'?
- 5. Who used the term first 'Delta'?
- 6. Who enunciated the concept of 'Base level'?
- 7. What is the meaning of Panthalasa?
- 8. What do you understand about pangea?
- 9. Who postulated the 'Theory of Plate Tectonic?
- 10. What is the name of theory propounded by Alfred Wegner in 1912?
- 11. What are the types of plate movement boundry?
- 12. Define plate boundries.
- 13. What is Angara?
- 14. What is Gondwana?
- 15. Define Exfoliation.
- 16. What is the name of instruments which seismic waves are recorded?
- 17. Define Epicenter.
- 18. Which type of waves cannot pass through liquid materials?
- 19. What is river rejuvenation?
- 20. What is the final product of all denudational processes?
- 21. Which forces are responsible for the origin of mountains?
- 22. Which forces are responsible for the building of continent?
- 23. What is attrition?
- 24. What is mean by Plucking?
- 25. What is deflation?
- 26. What is soli creep?
- 27. What do you understand about landslide?
- 28. What id physical weathering?
- 29. What is Chemical weathering?
- 30. Define biotic weathering.
- 31. What is fold?

- 32. What is fault?
- 33. What is erosion?
- 34. Define weathering?
- 35. Which denudational agent produce landform namely 'Mushroom Rock'.
- 36. In which climetic region work of wind found always dominent?
- 37. Which is the most powerful and effective erosive agent of coastal areas.
- 38. In which region work of glacier found dominent?
- 39. Which is the best example of Continental glacier?

40.

- 41. Pot Holes are considering which denudational agent?
- 42. Delta landform are considering which denudational agent.
- 43. In which river the Grand Canyon is situated?
- 44. What is the average density of the whole earth?
- 45. Drumlins are considering which denudational agent?
- 46. Yardang are considering which denudational agent?
- 47. Wave cut platforms are considering which denudational agent?
- 48. What is playa?
- 49. What is the name of topography landform are developed in desert region?
- 50. What is the name of topography landform are developed by running water?

B.) Explain the following concept (Four mark each)

1.

2. Landform 10. Sea floor spreading

3. Delta 11. Fold

4. Uniformitarianisam 12. Fault

5. Tiro of Davis

13. Endogenetic Forces

6. Plate boundary

7. Divergent plate 14. Exogenetic Forces

8. Conservative plate 15. Denudation

9. Transform plate 16. Exfoliation

- 17. Weathering
- 18. Erosion
- 19. Masswasting
- 20. Landslide
- 21. Debris fall
- 22. Soil creep
- 23. Chemical weathering
- 24. Physical Weathering
- 25. Biotic Weathering
- 26. Forms of Erosion
- 27. Fluvial
- 28. Wind
- 29. Glacier
- 30. Sea wave
- 31. Marphogenetic Region
- 32. Rapids
- 33. Waterfalls
- 34. Pot Hole
- 35. Deflation
- 36. Attrition
- 37. Abrasion
- 38. Corrosion
- 39. Plucking
- 40. Hydraulic action
- 41. Mushrooms Rocks
- 42. Mesa
- 43. Playa
- 44. Bajada
- 45. Drumlin
- 46. Wave Cut Platform
- 47. Lappies
- 48. Doline
- 49. V Shaped Valley

Question 3. A) Give reasons (Two mark each)

- 1. Circum pacific belt known as a Ring of fire.
- 2. Southern hemisphere is called water hemisphere.
- 3. Delta are mainly found in the lower course of river.
- 4. Vertical erosion always lies in the youth stage of river.
- 5. Variety of sand dunes are formed in the aeolian region.
- 6. Horizontal erosion lies in mature stage of river.
- 7. Landforms vary in size and shape in region to region.
- 8. Landslide always lies in rainfall affected area.
- 9. Sand dunes are found in different size and shape in arid region.
- 10. Pangea drifted towards westwrad and equatorward direction.
- 11. Secondary waves cannot travel liquid region.
- 12. Himalaya is a folded moumtain.
- 13. Japan known as a country of earthquake.
- 14. Northern hemisphere called land hemisphere.
- 15. Erosion is a dynamic process.
- 16. Generally masswasting process lies in rainfall affected hilly area.
- 17. Horizontal forces consider mountain building process.
- 18. Vertical forces concern continental building process.
- 19. Earthquake is an sudden force.
- 20. Chemical weathering lies in specially limestone area.
- 21. Velocity of water is very high in upper satge of river.
- 22. Weathering is a static process.

B) Write short answers (Two marks for each)

- 1. What do you understand about landform hierarchy?
- 2. State the two distinctive features of Delta.
- 3. Discuss 'Present is key to the past'.
- 4. What is Tiro of Davis?
- 5. Every landform is the function of structure, process and stage. Discuss.
- 6. What is plate boundary?

- 7. What are the charactristics of divergent plate boundry.
- 8. What are the charactristics of convergent plate boundry.
- 9. What are the charactristics of transform plate boundry.
- 10. What is sea floor spreading?
- 11. What are the two direction of drifting of continent?
- 12. Whate are the two direction of drifting of the continent?
- 13. Name the list of minor plate.
- 14. Write two evidances of continental drift theory.
- 15. Define Weathering.
- 16. What is Volcano? What are the types of volcano on the basis of period of origin?
- 17. What are the different kind of fold?
- 18. What are the different kind of fault?
- 19. What are the types of endogenetic forces?
- 20. List the exogenetic forces?
- 21. What is mean by denudation? What are the factor affecting on Physical weathering?
- 22. Write the process of chemical weathering.
- 23. How the exfoliation is type of physical weathering?
- 24. Lis tthe process of masswasting.
- 25. What are the causes of landslide?
- 26. Distingwish between primary and secondary sesmic wave.
- 27. What are the types of volcanoes on the basis of origin of period?
- 28. What are the types of sesmic wave?
- 29. What are the different forms erosional agent?
- 30. What are the erosional landforms of river?
- 31. What are the depositional landforms of river?
- 32. What are the erosional landforms of wind?
- 33. List the depositional landforms of aeolian?
- 34. What are the erosional landforms of ssea wave?
- 35. List the depositional landforms of coastal area.
- 36. What are the erosional landforms of glacier?
- 37. What are the depositional landforms in polar areas?
- 38. State the basis of marphogenetic region.
- 39. What are the formation process of waterfall?

40. Differenciate between weathering and erosion.

Question 4. Subject related technical aspects/ issues (Five marks of each)

- 1. How the role of lava in the formation process of Kas plateau in Satara district.
- 2. Explain the Process of waterfall formation with suitable diagram.
- 3. What do you understand about physical weathering and biotic weathering?
- 4. Discuss on Mass movement process around Satara district.
- 5. How the erosion is dynamic geomorphic process?
- 6. 'Sea wave' is dominent in the coastal area. Discuss.
- 7. Why the wind is active in desert region? Explain it.
- 8. Whart are the causes of changing forms of the land of any climatic region.
- 9. What do you understan about Rock structure and geomorphic process? Discuss it.

Question 5. Write broad answers (Five marks of each)

- 1. Give a brief account of development of geomorphic thought in the modern period.
- 2. Define Geomorphology and explain the scope of geomrphology.
- 3. Explain in detail nature of geomrphology
- 4. Give a brief account of development of geomorphic thought.
- 5. What are the characteristics of land water distribution?
- 6. Give an brief account of plate tectonic theory.
- 7. Critically exmine the theory of continental drift of Alfred Wegner.
- 8. Give an brief account of continental drift of Alfred Wegner.
- 9. Give an brief account of Sea floor spreading.
- 10. What are the different types of forces?
- 11. What are the causes of earthquake?
- 12. Explain the factor affecting on Physical weathering?
- 13. What are the various types of weathering?
- 14. Give brief account of chemical weathering process.
- 15. What are the various process mass movement?
- 16. Give a brief account of development of geomorphology in American school.
- 17. Discuss on erosional landforms of river.
- 18. What are the characteristics of youth stage of river?
- 19. Explain the different landforms associated with coastal area.
- 20. How the wind active in arid region?

- 21. Elaborate the landform associated with glacier.
- 22. Explain the erosional landforms associated wind action.
- 23. Explain the depositional landforms associated glaicer.

Question 6. A) Match the following/ distinguish (One mark of each)

1.

A Gro	oup	B Group
1.	Uniformitarianism	A. Continental Drift Theory
2.	Fluvial	B. James of Hutton
3.	Alfred Wegner	C. Rapids
	Ans: 1.B 2.0	C 3.A

2.

A Group		B Group
1.	Mushroom Rock	A. Wind
2.	Drumlin	B. River
3.	Pot hole	C. Glacier
	Ans: 1.A 2.	C 3.B

3.

A Gro	oup				B Group
1.	Sea cliff				A. Glacier
2.	Delta				B. Sea wave
3.	Drumlin				C. Runnign water
		Ans:	1.B	2.0	3.A

4.

A Group		B Group
1.	James hutton	A. Cycle of erosion

2.	W.M.Davis			B. Base Level
3.	J.W.Powell			C. Uniformitarianisam
	Ans:	1.C	2.A	3.B

5.

A Gro	up	B Group
1.	Continental drift theory	A. H.Hess
2.	Plate Tectonic theory	B. Alfred Wegner
3.	Sea floor spreading	C. W.J.Morgam
	Ans: 1.B 2.0	3.A

6.

A Gro	oup		B Group
1.	Volcano		A. Fold
2.	Fold		B. Sudden movements
3.	Anticline		C. Slow movement
	Ans:	1.B 2.	C 3.A

7.

A Group			B Group		
1.	Continent		A. Third order landform		
2.	plateau		B. Second order landform		
3.	Mesa		C. First order landform		
	Ans:	1.C 2.	B 3.A		

8.

A Group		B Group			
1.	Fluvial				A. Polar region
2.	Wind				B. Running water
3.	Glacier				C. Arid region
		Ans:	1.B	2.0	C 3.A

9.

A Group		B Group		
1.	Delta			A. Geomorphology
2.	Aruther Keith			B. Second order landform
3.	Continental slope			C. Aristotle
	Ans:	1.C	2.A	3.B

10.

A Gro	oup				B Group
1.	Epicentre				A. Sea wave
2.	Caldera				B. Earthquake
3.	Sea cliff				C. Volcano
		Ans:	1.B	2.C	3.A

B) True or False (One mark of each)

- 1. The term 'delta' first used by Greek geographer namely Aristotle True
- 2. 'Plate TectonicTheory' theory propounded by W.J.Morgan in 1967. **True**
- 3. Erosion is a static process. False
- 4. Southern hemisphere is called water hemisphere. True
- 5. Delta are mainly found in the lower course of river. **True**
- 6. Vertical erosion always lies in the old stage of river. False
- 7. Variety of sand dunes are formed in the aeolian region. **True**
- 8. Horizontal erosion lies in youth stage of river. False
- 9. Landforms vary in size and shape in region to region. **True**
- 10. Landslide always lies in rainfall affected area. True
- 11. Sand dunes are found in different size and shape in arid region. **True**
- 12. Pangea drifted towards westwrad and equatorward direction. True
- 13. Weathering is a static process. **True**
- 14. Generally masswasting process lies in rainfall affected hilly area. **True**
- 15. Horizontal forces consider continent building process. False

- 16. Vertical forces concern continental building process. **True**
- 17. Earthquake is an sudden force. **True**
- 18. Physical weathering lies in specially limestone area. **False**
- 19. Velocity of water is very high in upper satge of river. True
- 20. The erosion of the sea coast is caused by glacier. **True**
- 21. Washington consider as a country of earthquake. False
- 22. Pacific ocean consider Ring of fire. True
- 23. Geomorphology is the sub branch of physical geography. **True**
- 24. Secondary waves cannot travel liquid region. True
- 25. Himalaya is a folded moumtain. True
- 26. Geomorphology is branch of human geography. False
- 27. The term 'base level' postulated by W.M.Davis. False
- 28. W.M.Davis are consider to the concept of cycle of erosion. True
- 29. Study of landform is the prime focus of geomorphology. **True**
- 30. The average density of the whole earth is about 1.5 g cm⁻³. False
- 31. Stalagmites form in arid region. False
- 32. U shaped vallies are formed by Glaciers. **True**
- 33. The point on the earth surface immediately above the focus is Epi-centre. True
- 34. Barchans are formed by River action. False
- 35. The concept of Normal Cycle of Erosion was propounded by W.M. Davis. True
- 36. There were several smaller inland seas scattered over the Pangaea which was surrounded by huge water body, which known as pacific ocean. **False**

C) Define the term (Two mark of each)

1.		
2.	Delta	11. Landform
3.	Conservative plate	12. Fault
4.	Transform plate	13. Fold
5.	Sea floor spreading	14. Endogene

- 6. Plate boundary

 14. Endogenetic Forces

 15. Denudation
- 7. Divergent plate
 8. Exogenetic Forces
 16. Exfoliation
- 9. Uniformitarianisam 17. Weathering
- 10. Tiro of Davis 18. Erosion

- 19. Masswasting20. Landslide21. Debris fall22. Soil creep
- 23. Chemical weathering
- 24. Playa
- 25. Disintigration
- 26. Biotic Weathering
- 27.Pot Hole
- 28. Deflation
- 29. Bajada
- 30. Drumlin
- 31. Fluvial
- 32. Wind
- 33. Glacier
- 34. Sea wave
- 35. Marphogenetic Region
- 36. Rapids
- 37. Waterfalls
- 38. Wave Cut Platform
- 39. Lappies
- 40. Doline
- 41. V Shaped Valley
- 42. Attrition
- 43. Abrasion
- 44. Corrasion
- 45. Plucking
- 46. Hydraulic action
- 47. Mushrooms Rocks
- 48.Mesa
