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Seat No. _____

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SARDAR PATEL UNIVERSITY
T. Y. B.Sc. 5TH SEMESTER EXAMINATION
18th November, 2019, Monday
10.00 AM to 01.00 PM
Earth System Sciences (US05CENV04)

Q.1 Multiple Choice Question (One marks each) (10)

1. _____ process involves uplift or warping of large parts of the earth's crust.
(a) Epeirogenic (b) Orogenic (c) Both of above (d) None of above
2. _____ is exogenic process.
(a) Earthquake (b) Erosion (c) Volcano (d) Diastrophism
3. _____ means the deposition of eroded material.
(a) Degradation (b) Agradation (c) Glaciation (d) Deformation
4. _____ is the chemical composition of Quartz.
(a) SiO₄ (b) Si₂O₃ (c) SiO₂ (d) Al₂O₃
5. Hardness of diamond is _____.
(a) 1 (b) 5 (c) 7 (d) 10
6. _____ is the most explosive type of volcano.
(a) Hawaiian (b) Vulcanian (c) Strombolian (d) Peleean
7. _____ instrument is used to measure the intensity of earthquake.
(a) Reflectometer (b) Seismometer (c) Nephelometer (d) Diatometer
8. _____ can cause a tsunami.
(a) Volcanic eruption (b) Underwater earthquake (c) Landslide (d) All above
9. Cyclone is called as _____ in Australia.
(a) Hurricane (b) Typhoons (c) Taifu (d) Willy willy
10. A flood can vary in _____.
(a) Size (b) Speed of water flow (c) Duration (d) All above

Q.2 Answer in brief (Any 10) (20)

1. Give a short note on denudational process.
2. Explain trellis drainage pattern with suitable diagram.
3. How erosion and deposition takes place in weathering.
4. Define Minerology.
5. What is Hardness of mineral? Explain briefly.
6. What is meant by Pseudochromatic color of minerals.
7. Define: Focus and epicenter.
8. What is seismograph.
9. Explain structure of volcano in brief.
10. What is drought?
11. What are different types of Flood? Explain.
12. Give a short note on landslide.

(1)

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- Q.3 (a) Give a note on physical weathering process. (05)
(b) Write about sand dune in detail. (05)
- OR
- Q.3 (a) Explain rock cycle in detail with suitable diagram. (05)
(b) Give a note on chemical weathering process. (05)
- Q.4 (a) Give a detailed note on sulphur cycle with suitable diagram. (05)
(b) Write about cleavage of mineral. (05)
- OR
- Q.4 (a) Discuss about nitrogen cycle in detail. (05)
(b) Explain streak of mineral. (05)
- Q.5 (a) Explain causes of earthquake. (05)
(b) Write about topography produced by extrusive volcano. (05)
- OR
- Q.5 (a) Discuss the impacts of volcano. (05)
(b) Give a note on classification of earthquake. (05)
- Q.6 Write in detail about disaster management of tsunami. (10)
- OR
- Q.6 Discuss characteristics features of tropical cyclone. (10)

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(2)