



Uva Wellassa University, Sri Lanka
End Semester Examination – April 2011
MRT 131-1 Earth Processes



Time: One (01) hour

Total 04 Questions

Answer all questions

Draw sketch diagrams where necessary

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- 01) Briefly discuss followings
- (i) Formation of planets (15 marks)
 - (ii) Earth's hydrosphere (10 marks)
 - (iii) Geologic time scale (10 marks)
- 02) Give a detailed account on the rock cycle with special attention on the environments of formation. (25 marks)
- 03) Write short notes on
- (i) Ductile structures
 - (ii) Unconformities
 - (iii) Soil profile (25 marks)
- 04) USGS reported that an earthquake of magnitude 9 triggered on 11th March 2011 at Tohoku near the northeast coast of Honshu, Japan, resulted from thrust faulting on or near the subduction zone plate boundary between the Pacific and North American plates.
- (i) Describe the process taking place in subduction zone plate boundary.
 - (ii) Describe the causes of earthquake in above plate boundary.
 - (iii) How seismologists would calculate the magnitude and location in Tohoku earthquake on March 11, 2011. (25 marks)