

Code No: **RT42262A****R13****Set No. 1****IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018****DEEP SEA MINING****(Mining Engineering)****Time: 3 hours****Max. Marks: 70***Question paper consists of Part-A and Part-B**Answer ALL sub questions from Part-A**Answer any THREE questions from Part-B*

PART-A (22 Marks)

1. a) What are the three features of the ocean floor? [3]
b) List the plenty of possibilities by the sea. [3]
c) Describe the location of Hydrothermal vents. [5]
d) List the types of offshore and subsea facilities. [4]
e) List the dangers of deep sea mining. [3]
f) What are the laws in International waters? [4]

PART-B (3x16 = 48 Marks)

2. a) Explain the physical characteristics of the ocean floor. [8]
b) Describe [8]
(i) Contour maps
(ii) Raised-relief maps
3. a) Explain the continental shelf and slope. [8]
b) Describe the profile of Indian ocean. [8]
4. a) Explain the geological prospecting methods. [8]
b) Explain the [8]
(i) Polymetallic sulphides
(ii) Cobalt crusts deposits
5. a) Explain the Fixed or conventional platforms [8]
b) Explain the offshore exploration of complaint towers [8]
6. a) Explain the how to act the bacteria and alage act as biocatalysts for deep-sea raw material deposition. [8]
b) Explain the deep sea mining and Ecosystem adaptability. [8]
7. a) List the long-term impacts of deep-sea mineral mining. [8]
b) Describe the potential environmental effects of deep sea mining. [8]