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Roll No

FT-403 (GS)
B.E. IV Semester Examination, June 2020
Grading System (GS)
Rescue Equipments and Techniques
Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) Write the Limitations of Bernoulli's theorem.
b) Explain the working principle of hydraulic operated tools and their types?
2. a) Explain rescue problem with their remedies from fire incident in Hospital building.
b) Discuss on portable fire extinguisher used for electrical fire.
3. Summarize basic guidelines for rope maintenance.
4. a) What are the basic rules governing the principle characteristic of pressure in liquid?
b) Explain the working principle of pneumatically operated tools and their use in rescue operation.
5. a) Differentiate between respiratory and non respiratory equipment used in rescue operation.
b) What do you mean by renunciator? Explain in brief.

OR

Describe the following extinguisher on the basis of extinguishing media, application and neat clean sketch.

- i) CO₂ type fire extinguisher
 - ii) Foam type fire extinguisher
6. a) Explain the specification multipurpose fire tender as per the Indian Standard.
b) Write the mechanism of Dry Chemical Power (DCP) used to extinguisher the fire.
 7. What do you understand by Small Gears explain in brief?

OR

Explain different types of Ropes. Write their material of Construction and Application.

8. a) Differentiate between Half hitch and clove hitch.
b) Discuss in detail on rescue operation carried out during poisonous gas leak inside the mine.
- OR
- a) Discuss on personal protective equipments and their importance at work place.
b) Write the advantages and disadvantages of hydraulic platform and turntable Ladder.
