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6. Explain how the hydrometer is used, and what precautions it is necessary to take in order to ensure a correct test?

7. In testing a sample of spirits, the temperature was found to be 62 degrees, hydrometer indication 35, and another sample temperature 52, hydrometer indication 32, what would be the strength of each, and the difference in proof gallons between 100 Imperial gallons of the former and 95 wine gallons of the latter?

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No. 9.

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DISTILLATION.

*Time—1 Hour.*

(Maximum number of marks attainable, 70.)

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1. What are the several operations necessary to the distillation of spirits from grain? In what order do they transpire, and what length of time is requisite for each?
  2. What is the object of fermentation, and what are the different changes, as to the taste of the wash as the process goes on?
  3. What is meant by "Attenuation of Wash or Beer"?
  4. What further process is requisite in order to render spirits marketable after they have been charged for duty, and at what point is that charge established.
  5. What is the usual method of testing for duty? and what precautions should be taken by the officer prior to and during the operation of testing, in order to ensure a correct result?
  6. What result might be expected if the process of fermentation were unduly prolonged?
  7. Describe the process and state the object of taking a "Special Test"?
  8. What are the principal duties of an Officer of Excise in charge of a distillery, especially with a view to the prevention of fraud?
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