

## P97/FHS201/EE/20160512

Time : 3 Hours

Marks : 80

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### Instructions :

1. All Questions are Compulsory.
  2. Each Sub-question carry 5 marks.
  3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
  4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
  - a) Describe working of 4-stroke petrol engine. 5
  - b) What are the types of positive displacement pump? 5
  - c) Describe procedure for inspection of Hydrant. 5
  - d) What is the procedure for closed circuit water relay operation? 5
  - e) Write a note on Hose laying lorry. 5
2. Solve any **four** sub-questions.
  - a) Describe 'Emergency Tender' in short. 5
  - b) Write in brief about fire service pump operation. 5
  - c) What are the different types of primers used in fire service? 5
  - d) What are the different types of trailer pump? 5
  - e) Describe dry vacuum test of centrifugal pump. 5

3. Solve any **four** sub-questions.
- a) Describe static pressure test of a hydrant. 5
  - b) Write a note on Water Tender Type 'A'. 5
  - c) Explain water ring priming system. 5
  - d) Write different hydrant operating gears. 5
  - e) How does reciprocating primer works? 5
4. Solve any **four** sub-questions.
- a) Explain out-put test procedure of centrifugal pump. 5
  - b) What are the operator's fault? 5
  - c) What do you understand by multi-stage pump? 5
  - d) What are the parts associated with centrifugal pump and write their respective functions? 5
  - e) Explain water distribution system. 5

