[Total No. of Printed Pages :2

www.rgpvonline.com

ME-114

B.E. I & II Semester

Examination, June 2017

Choice Based Credit System (CBCS) **Fundamentals of Mechanical Engineering**

Time: Three Hours

Maximum Marks: 60

www.rgpvonline.com

www.rgpvonline.com www.rgpvonline.com

www.rgpvonline.com

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

- What is Sheet metal working? Write down its advantages and disadvantages.
 - b) Discuss the various tools/equipments used in arc welding process.
- Explain the various types of flames generated in oxy-acetylene gas welding.
 - b) Explain the various operations performed on lathe machine. www.rgpvonline.com
- What is functions of engines? Write down its classifications.
 - b) Differentiate between four stroke cycle engine and two stroke cycle engine.
- Sketch the general arrangement of a hydropower plant and state the function of its different components.
 - b) Discuss the various components of nuclear power plant.

37

PTO

www.rgpvonline.com

www.rgpvonline.com

[2]

- Explain about the different types of spring used.
 - What do you mean by chain drive? Write down its advantages and disadvantages.
- State the first law of thermodynamics. Write down its corollaries.
 - Sketch and describe a cochran vertical boiler.
- 7. a) Explain following phenomenon related to plastic deformation of materials.
 - b) Discuss the various factors affecting the mechanical properties of metals.
- Write down short notes on any four of the followings:
 - Single point cutting tool
 - Centrifugal pump

Cam profile

www.rgpvonline.com

- Economiser
- Brinell hardness testing

28

ME-114

www.rgpvonline.com

www.rgpvonline.com

www.rgpvonline.com

www.rgpvonline.com