

ಒಟ್ಟು ಮುದ್ರಿತ ಪುಟಗಳ ಸಂಖ್ಯೆ : 8] Total No. of Printed Pages: 8

ಒಟ್ಟು ಪ್ರಶೆಗಳ ಸಂಖ್ಯೆ : 10]

Total No. of Questions: 10]

CCE RR

Question Paper Serial No. 600

ಸಂಕೇತ ಸಂಖ್ಯೆ: 71

Code No.: 71

ವಿಷಯ: ಎಲಿಮೆಂಟ್ಸ್ ಆಫ್ ಮೆಕ್ಯಾನಿಕಲ್ ಅಂಡ್

ಎಲೆಕ್ಟ್ರಿಕಲ್ ಇಂಜಿನಿಯರಿಂಗ್ - 2

Subject: ELEMENTS OF MECHANICAL AND **ELECTRICAL ENGINEERING-2**

(ಪುನರಾವರ್ತಿತ ಶಾಲಾ ಅಭ್ಯರ್ಥಿ/ Regular Repeater)

Date: 02. 07. 2022 ದಿನಾಂಕ: 02.07.2022]

ಸಮಯ: ಬೆಳಗ್ಗೆ 9-30 ರಿಂದ ಮಧ್ಯಾಹ-12-45 ರವರೆಗೆ] [Time: 9-30 A.M. to 12-45 P.M.

ಪರಮಾವಧಿ ಅಂಕಗಳು: 100] [Max. Marks : 100

General Instructions to the Candidate:

- 1. This Question Paper consists of 10 subjective types of questions.
- 2. This question paper has been sealed by reverse jacket. You have to cut on the right side to open the paper at the time of commencement of the examination. Check whether all the pages of the question paper are intact.
- 3. Follow the instructions given against both the objective and subjective types of questions.
- 4. Figures in the right hand margin indicate maximum marks.
- 5. The maximum time to answer the paper is given at the top of the question paper. It includes 15 minutes for reading the question paper.

Note: Answer questions from Sections $\mathbf{A} \& \mathbf{B}$ as per the instructions given under them.





SECTION - A

Note : Answer *all* the questions.



1. a) Define E.C. engine.

- 2
- b) Explain the function of connecting rod in an internal combustion engine.
- c) Draw a neat sketch of four-stroke diesel engine and label the parts.
- 2. a) Define air compressor.

2

b) Write the classification of air compressor.



3

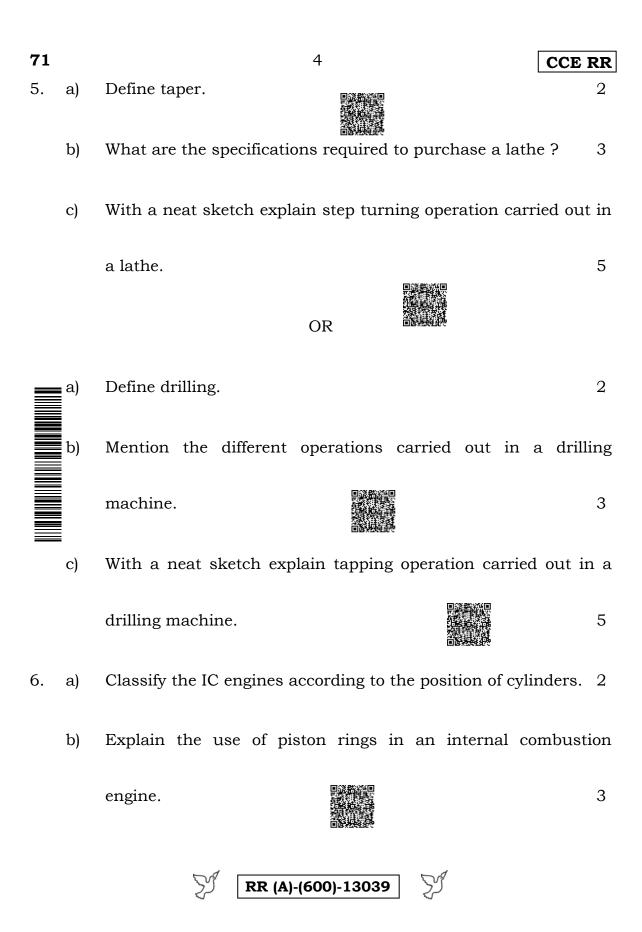


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[Turn over



Describe electrical power and also mention its SI unit.

b)

3

- Draw a neat diagram of sine wave and mark the following: 5 c)
 - Amplitude i)



- Cycle. ii)
- 9. Define the term electromagnetic induction. a)

2

State Fleming's Right Hand Rule.



3

Explain with a neat diagram, working of mutually induced

e.m.f.



5

List the types of electric iron. 10. a)

2

Define the term Reverse bias. b)



3

Draw a neat diagram of an electric bell and label the parts. c)

5

OR





8