

B

Sl. No. : YYY

ಒಟ್ಟು ಪ್ರಶ್ನೆಗಳ ಸಂಖ್ಯೆ : 9]

Total No. of Questions : 9]

ಸಂಕೇತ ಸಂಖ್ಯೆ : **73****CCE RR**
REVISED & UN-REVISED

[ಒಟ್ಟು ಮುದ್ರಿತ ಪುಟಗಳ ಸಂಖ್ಯೆ : 4

[Total No. of Printed Pages : 4

Code No. : 73

ಇಲ್ಲಿಂದ ಕತ್ತರಿಸಿ

ವಿಷಯ : ಎಲಿಮೆಂಟ್ಸ್ ಆಫ್ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಇಂಜಿನಿಯರಿಂಗ್
Subject : ELEMENTS OF ELECTRONICS ENGINEERING
 (ಹೊಸ ಪಠ್ಯಕ್ರಮ / New Syllabus)
 (ಪುನರಾವರ್ತಿತ ಶಾಲಾ ಅಭ್ಯರ್ಥಿ / Regular Repeater)

ದಿನಾಂಕ : 23. 06. 2018]

[Date : 23. 06. 2018

ಸಮಯ : ಬೆಳಿಗ್ಗೆ 9-30 ರಿಂದ ಮಧ್ಯಾಹ್ನ-12-45 ರವರೆಗೆ]

[Time : 9-30 A.M. to 12-45 P.M.

ಪರಮಾವಧಿ ಅಂಕಗಳು : 90]

[Max. Marks : 90

General Instructions to the Candidate :

1. This Question Paper consists of 9 objective and 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.

TEAR HERE TO OPEN THE QUESTION PAPER

ಪ್ರಶ್ನೆ-ಪತ್ರಿಕೆಯನ್ನು ತೆರೆದಿರುವುದು ಇಲ್ಲಿ ಕತ್ತರಿಸಿ

Tear here

RR(B)-30005

[Turn over

Note : Answer all the questions.

1. Fill in the blanks with the appropriate figure/word(s) by selecting from the choices given in the brackets : 10 × 1 = 10
 - i) Oscilloscope is used to measure
(a.c. voltage, d.c. voltage, both a.c. & d.c. voltages)
 - ii) Truth table can only be used for circuits.
(digital, combinational, synchronous)
 - iii) MSI contains
(12-100 gates, less than 12 gates, more than 100 gates)
 - iv) Intel 8085 is a
(microprocessor, transistor, diode)
 - v) Flip-flop is a bistable circuit which has
(2 stable states, 3 stable states, 4 stable states)
 - vi) Counter is a special type of
(Register, Inverter, Converter)
 - vii) Non-linear IC is also known as
(digital I.C., monolithic I.C., hybrid I.C.)
 - viii) The cost of Op-Amp is
(less, medium, high)
 - ix) Binary number system consists only two digits, they are
(0 & 1, 1 & 2, 0 & 8)
 - x) An IC whose output is proportional to its input is known as
(linear IC, non-linear IC, none of these)
2.
 - a) What is an IC ? 2
 - b) What are the salient features of an IC ? 3
 - c) Draw a symbol of LED and explain briefly. 5
3.
 - a) Define SSI. 2
 - b) List various applications of ICs. 3
 - c) Draw the constructional diagram of monolithic IC. 5
4.
 - a) What is an Op-Amp ? 2
 - b) What are the ideal characteristics of an Op-Amp ? 3
 - c) Explain the functions of input stage and output stage of an Op-Amp. 5

5. a) Name different types of number systems used in digital systems. 2
b) Convert decimal 33 into its binary equivalent. 3
c) Draw the symbols of AND, NAND, OR, NOR & NOT logic gates. 5
6. a) Define rectifier. 2
b) Explain decimal number system. 3
c) Explain NAND gate and verify its truth table. 5
7. a) What is meant by flip-flop ? 2
b) What are the uses of flip-flops ? 3
c) Explain JK flip-flop with a neat symbol and verify its truth table. 5
8. a) Define register. 2
b) Explain shift register. 3
c) Draw the block diagram of SISO shift register and explain briefly. 5
9. a) Define counter. 2
b) Explain microprocessor and name the microprocessor which has 40 pins. 3
c) Write short notes on the following : 5
i) LCD
ii) Binary system.
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