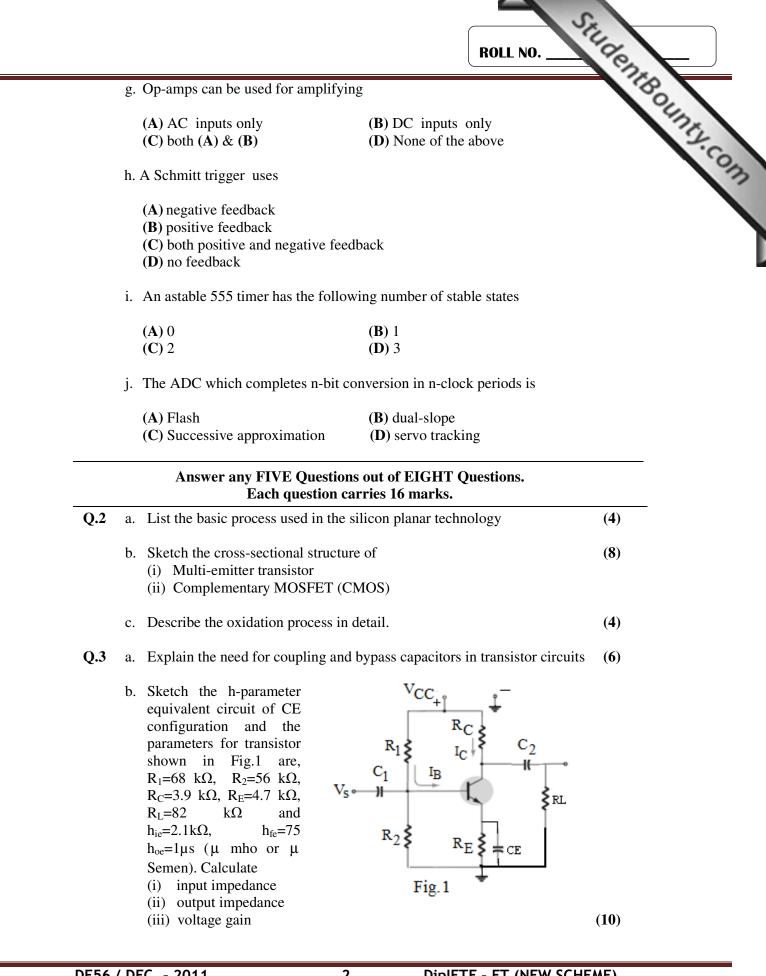
StudentBounty.com **ROLL NO. Diplete – ET (NEW SCHEME)** Code: DE56 -Subject: ANALOG ELECTRONICS **Time: 3 Hours** Max. Marks: 100 **DECEMBER 2011** NOTE: There are 9 Questions in all. • Please write your Roll No. at the space provided on each page immediately after receiving the Question Paper. • Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else. • The answer sheet for the O.1 will be collected by the invigilator after 45 Minutes of the commencement of the examination. • Out of the remaining EIGHT Ouestions answer any FIVE Ouestions. Each question carries 16 marks. • Any required data not explicitly given, may be suitably assumed and stated. Choose the correct or the best alternative in the following: (2×10) **Q.1** a. The output voltage of a CE amplifier with respect to its input voltage is (A) amplified (B) inverted (C) 180° out of phase (**D**) all of the above b. A transistor has $h_{fe}=27$ and its h_{fc} will be (A) -0.96 **(B)** 0.96. **(C)** -0.27 **(D)** -0.28 c. A transistor switch will be biased to work in its region of operation. (A) Cut-off and Active (B) Cut-off and Saturation (C) Active and Saturation (**D**) None of the above d. The drain to source current of an n- channel depletion MOSFET has (A) Ids=0 at Vgs=0 (B) Ids=negative maximum at Vgs=0 (C) Ids=positive maximum at Vgs=0 (D) Ids is independent of Vgs e. Which of the following provides least distortion? (A) Class A (B) Class B (C) Class AB (D) Class C f. Due to capacitances within an op-amp, the gain of an op-amp _____at higher frequencies (A) decreases (**B**) increases (C) neither decreases or increases (**D**) infinity DE54 / DEC _ 2011 DiDIETE - ET (NEW SCHEME) 1



DE56 / DEC _ 2011

2

