

ANALOG & DIGITAL ELECTRONICS

CS – 301

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternative –

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- i) The gain required for sustained oscillation in Wien-bridge oscillator is
 - a) 29
 - b) 1.5
 - c) 3
 - d) 1
- ii) Schmitt trigger is also known as
 - a) squaring circuit
 - b) blocking oscillator
 - c) sweep circuit
 - d) astable multivibrator
- iii) A differential amplifier has the differential gain of 100. If its CMRR = 240, then the common mode gain is
 - a) 0.24
 - b) 0.417
 - c) 24000
 - d) 1
- iv) The maximum theoretical efficiency of class A amplifier can be
 - a) 50%
 - b) 78%
 - c) 25%
 - d) 100%
- v) For a wide range of oscillations in the audio range, the preferred oscillator is
 - a) Hartley
 - b) Phase shift
 - c) Wien-bridge
 - d) Hartley and Colpitt
- vi) To improve the efficiency of the amplifier we have to
 - a) reduce the power dissipation rating
 - b) reduce supply voltage
 - c) reduce the load power
 - d) reduce unwanted power loss
- vii) A class B push-pull power amplifier has an a.c. output of 10 watts. The d.c. power from the power supply under ideal condition is
 - a) 10 watts
 - b) 12.75 watts
 - c) 15 watts
 - d) 20 watts
- viii) To avoid false triggering of the NE 555 timer, the RESET pin (Pin 4) is generally connected to

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CO Houle



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