

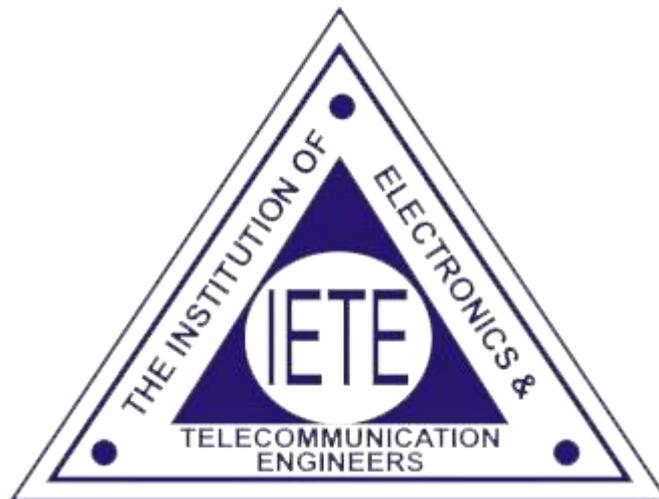


DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year 2016-2017 (Even Semester)

THE INSTITUTION OF ELECTRONICS AND TELECOMMUNICATION ENGINEERS

IETE STUDENTS' FORUM (ISF)



A REPORT

OF

Technical Quiz Competition

on

16.07.2016

Department of Electronics and Communication

Kings College of Engineering, Thanjavur.

The IEI Student Chapter, Kings College of Engineering, organized a Quiz Competition on 16.07.16 for the IEI student members of ECE Department. 43 students have actively participated in this competition. The list of students participated in the event is as follows

ROLL NO	REGISTER NUMBER	NAME OF THE STUDENT
1	821113106001	AARTHI S
2	821113106002	ABARNASRI R
3	821113106003	ABINAVIA
4	821113106004	ABINAYAA
5	821113106006	ABIRAMI S
6	821113106007	AGASTHIYAA
7	821113106008	AJEETHKUMAR V
8	821113106009	AKALYAN
9	821113106010	AKSHAYAA
10	821113106012	ANITHA S
11	821113106013	ANNALAKSHMI A
12	821113106014	ANU RATHIKA M
13	821113106015	ANUSHA A
14	821113106016	ARAVIND K
15	821113106017	ARAVINDH R
16	821113106018	ARAVINTH A
17	821113106019	ARAVINTH R
18	821113106020	AROKIA AJITH LEO X
19	821113106021	ARTHI A
20	821113106022	ARUN KUMAR G
21	821113106023	ARUN KUMAR V
22	821113106024	ASHIYABEGUM J
23	821113106025	ASHVITHA M
24	821113106027	BALACHANDAR R
25	821113106028	BARGAVI G
26	821113106029	BASHIRUNNISHA S
27	821113106030	BAVATHARANI S
28	821113106031	BEESHMAR S
29	821113106032	BENITA A
30	821113106033	CHANDRAMALA C
31	821113106034	CHANTHIYA S
32	821113106035	DEEPIKA L
33	821113106036	DHARANI M
34	821113106037	DURGA DEVI P
35	821113106038	ELAMATHI M
36	821113106039	ESTHER THANISHA T
37	821113106040	FARIDHA NASRIN N
38	821113106041	GAYATHRI A
39	821113106043	GOWTHAMAN A
40	821113106044	GUNASEELAN S
41	821113106046	HARI PRIYA P
42	821113106047	HASIKA PRIYA R
43	821113106048	HEMALATHA R

The Quiz competition is conducted with the help of Power point presentations for the student team. The presentation at Quiz round is shown as follows.

7/16/2016

KINGS COLLEGE OF ENGINEERING
PUNALKULAM

DEPARTMENT OF ECE

IETE

QUIZ COMPETITION
On
Basic Electronics

Question

2. SCRs are connected in series to enhance

- (a) their overall dv/dt rating
- (b) their voltage ratings
- (c) their current handling capabilities
- (d) none of these

Question

1). In a semiconductor diode, P-side is grounded and N-side is applied a potential of -5V through a resistance of 100 ohms. the diode shall

- (a) conduct fully
- (b) not conduct
- (c) conduct partially
- (d) none of these

Answer

2. SCRs are connected in series to enhance

- (a) their overall dv/dt rating
- (b) their voltage ratings
- (c) their current handling capabilities
- (d) none of these

Answer

1). In a semiconductor diode, P-side is grounded and N-side is applied a potential of -5V through a resistance of 100 ohms. the diode shall

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Question

3. The SLEW RATE specification of an opamp is usually measured in

- (a) microvolts per second
- (b) volts per microsecond
- (c) decibels
- (d) volts per microvolt

Answer

3. The SLEW RATE specification of an opamp is usually measured in
- (a) microvolts per second
 - (b) volts per microsecond
 - (c) decibels
 - (d) volts per microvolt

Question

5. in the astable mode of operation of IC 555, the timing capacitor always charges between
- (a) 0 and $1/3 V_{cc}$
 - (b) $1/3 V_{cc}$ and $2/3 V_{cc}$
 - (c) 0 and $2/3 V_{cc}$
 - (d) 0 and V_{cc}

Question

4. The pulse width in a 555 monostable multivibrator is given by
- (a) $t = 0.69 RC$
 - (b) $t = 1.1 RC$
 - (c) $t = 1.38 RC$
 - (d) none of these

Answer

5. in the astable mode of operation of IC 555, the timing capacitor always charges between
- (a) 0 and $1/3 V_{cc}$
 - (b) $1/3 V_{cc}$ and $2/3 V_{cc}$
 - (c) 0 and $2/3 V_{cc}$
 - (d) 0 and V_{cc}

Answer

4. The pulse width in a 555 monostable multivibrator is given by
- (a) $t = 0.69 RC$
 - (b) $t = 1.1 RC$
 - (c) $t = 1.38 RC$
 - (d) none of these

Question

6. when a PLL is being used as an FM demodulator, the demodulated signal appears at
- (a) the output of phase comparator
 - (b) the VCO output
 - (c) the output of low pass filter
 - (d) none of these.

Answer

6. when a PLL is being used as an FM demodulator, the demodulated signal appears at
- (a) the output of phase comparator
 - (b) the VCO output
 - (c) the output of low pass filter
 - (d) none of these.

Question

8. the output voltage at no load in an unregulated power supply is the same as its output voltage at rated load current. its internal resistance is therefore
- (a) extremely small
 - (b) zero
 - (c) infinite
 - (d) extremely large.

Question

7. most popular oscillator configuration for audio applications is :
- (a) Hartley oscillator
 - (b) colpitt's oscillator
 - (c) wein-bridge oscillator
 - (d) R-C phase shift oscillator.

Answer

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Answer

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Question

9. mark the rectifier circuit that produces the least ripple
- (a) single rectifier, half wave, single phase
 - (b) four rectifiers, full wave, single phase
 - (c) two rectifiers, full wave, single phase
 - (d) six rectifiers, full wave, three phase.

Answer

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- (a) single rectifier, half wave, single phase
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 - (c) two rectifiers, full wave, single phase
 - (d) six rectifiers, full wave, three phase.

Question

11. The pulse width in a 555 monostable multivibrator is given by
- (a) $t = 0.69 RC$
 - (b) $t = 1.1 RC$
 - (c) $t = RC$
 - (d) none of these

Question

10. the SLEW RATE specification of an opamp is usually measured in
- (a) microvolts per second
 - (b) volts per microsecond
 - (c) decibels
 - (d) volts per microvolt

Answer

11. The pulse width in a 555 monostable multivibrator is given by
- (a) $t = 0.69 RC$
 - (b) $t = 1.1 RC$
 - (c) $t = RC$
 - (d) none of these

Answer

10. the SLEW RATE specification of an opamp is usually measured in
- (a) microvolts per second
 - (b) volts per microsecond
 - (c) decibels
 - (d) volts per microvolt

Question

12. When a PLL is being used as an FM demodulator, the demodulated signal appears at
- (a) the output of phase comparator
 - (b) the VCO output
 - (c) the output of low pass filter
 - (d) none of these.

Answer

- 12. when a PLL is being used as an FM demodulator, the demodulated signal appears at
- (a) the output of phase comparator
- **(b) the VCO output**
- (c) the output of low pass filter
- (d) none of these.

Question

- 14. A 4-bit circulating register is initially set to 0001 (1 is the true output of the first flip flop and represents LSB).
- 4-bit number preset in the register at the end of 16 clock pulses is
- (a) 0010
- (b) 0001
- (c) 0100
- (d) 1000

Question

- 13. "A NOR gate is equivalent to a bubbled AND gate". this statement is an outcome of
- (a) demorgan's theorems
- (b) involution law
- (c) absorption law
- (d) idempotent law

Answer

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Answer

- 13. "A NOR gate is equivalent to a bubbled AND gate". this statement is an outcome of
- **(a) demorgan's theorems**
- (b) involution law
- (c) absorption law
- (d) idempotent law

Question

- 15. number of comparators needed to build a 6-bit simultaneous A/D converter is
- (a) 63
- (b) 64
- (c) 7
- (d) 6

Answer

- 15. number of comparators needed to build a 6-bit simultaneous A/D converter is
- **(a) 63**
- (b) 64
- (c) 7
- (d) 6

**Thank you for
Your Participation**

Question

- 16. in a broadcast communication receiver, most of the receiver selectivity is achieved in
- (a) RF Section
- (b) IF Section
- (c) Mixer

Answer

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- (a) RF Section
- **(b) IF Section**
- (c) Mixer

Outcome

The students have got an experience of sharing their knowledge in the field of Electronics and Communication Engineering. The students have actively shown their teamwork when the quiz questions were asked as per quiz round to the different team of student members. Through this technical Quiz event students have an opportunity to enhance their technical knowledge.