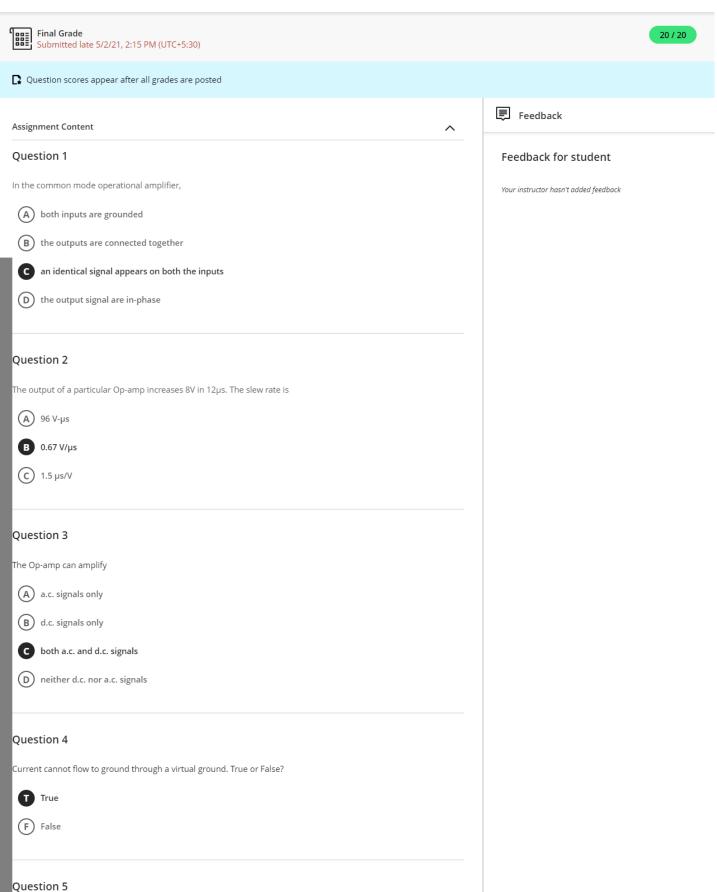
Unit 3: Quiz Pool

Hemant Kumar



Which of the following electrical characteristics is not exhibited by an ideal op-amp?	
A Infinite voltage gain	
B Infinite bandwidth	
C Infinite output resistance	
D Infinite slew rate	
Question 6	
How many pins of IC 741 are used for connections?	
(A) 5	
B 6	
G 7	
D 8	
Question 7	
The non-inverting input is applied at pin 3 of IC 741. True or False?	
T True	
F False	
Question 8	
The inverting input is applied at pin 3 of IC 741. True or False?	
T True	
F False	
Question 9	
An ideal op-amp has infinite bandwidth. True or False?	
True	
F False	
Question 10	
An ideal op-amp has zero slew rate. True or False?	
T True	
F False	
Question 11	

Question 11

T) True
F False
To raise
Question 12
An ideal op-amp has infinite CMRR. True or False?
True
(F) False
Question 13
An ideal op-amp has infinite input offset voltage. True or False?
T) True
F False
Question 14
The average value of the two currents flowing into the op-amp input terminals is known as
(A) input offset current
B input bias current
C differential current
Question 15
Which type of feedback is used to operate op-amp as an oscillator?
(A) negative
B positive
Question 16
Which type of feedback is used to operate op-amp as an amplifier?
A negative
B positive
Question 17
Which of the following op-amp configuration is used as phase shifter?
A inverting op-amp
B non-inverting op-amp

Question 18 Which of the following op-amp configuration is used to isolate cascaded circuits? (A) inverting op-amp B non-inverting op-amp Question 19 Which of the following will you use to convert a square waveform into a triangular waveform? A integrator (B) differentiator Question 20 Which of the following will you use to convert a square waveform into spikes? (A) integrator B differentiator Question 21 Which of the following will you use to convert a triangular waveform into a square waveform? (A) integrator **B** differentiator Question 22 Which of the following will you use to convert a sine waveform into a cosine waveform? A integrator (B) differentiator Question 23 Which of the following will you use to convert a triangular waveform into a parabolic waveform? A integrator (B) differentiator Question 24

Output of a comparator will always be a square waveform if sine wave is used as input. True or False?

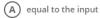




Question 25
Which type of ADC uses ramp generating circuit at the time of conversion?
successive approximation ADC
B counting ADC
© flash ADC
Question 26
Which type of DAC uses only two different values of resistors?
A R-2R Ladder
B binary weighted resistor
Question 27
What will be the output voltage of an open loop amplifier if 15V is applied to inverting terminal and 20V is applied to non-inverting terminal? Assume gain as 2.
A 10 V
B -10 V
Question 28
Binary weighted resistor is a A-to-D converter. True or False?
T True
F False
Question 29
There are 8 pins in IC 741. True or False?
True
F False
Question 30
Negative feedback op-amp works as an oscillator. True or false?
T True
F False

Question 31

ositive	e feedback op-amp works as an oscillator. True or false?
O	True
F	False
Ques	tion 32
A differ	rentiator converts a triangular waveform into
A	spikes
B	square waveform
©	sine waveform
D	parabola
Ques	tion 33
When a	a differential amplifier is operated single-ended
A	the output is grounded
B	one input is grounded and signal is applied to the other
©	both inputs are connected together
D	the output is not inverted
Ques	tion 34
n diffe	rential mode,
A	opposite polarity signals are applied to the inputs
В	the gain is one
©	the outputs are of different amplitudes
D	only one supply voltage is used
Ques	tion 35
n the o	common mode,
A	both inputs are grounded
В	the outputs are connected together
G	an identical signal appears on both the inputs
D	the output signal are in-phase
Oues	tion 36



B increased
C fed back to the inverting input
(D) fed back to the non-inverting input
Question 37
Vhich of the following is/are correct in relation to a voltage follower? 1. It has a voltage gain of 1 2. It is noninverting 3. It has no feedback resistor
(A) Only 1
B Only 2
C Only 3
D Both 1 and 2
(E) Both 1 and 3
F Both 2 and 3
G All 1, 2 and 3
Question 38
he input offset current equals the
A difference between two base currents
B average of two base currents
C collector current divided by current gain
Question 39
Op-amp integrator uses:
A Capacitor as feedback element
B Resistor as feedback element
C Inductor as feedback element
(D) A simple wire as feedback element
Question 40
n a differentiator, a capacitor is connected to the input terminal of the inverting amplifier. True or false?
A True

F False