

Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020)

Course Name - Analog Circuits

Course Code - PCC-EC402

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Answer all the questions. Each question carry one mark.

9. 1. The resolution of a DAC depends on which of the following

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- The number of bits
- Monotonocity
- Reference voltage
- The values of resistances

10. 2. A digital-to-analog converter with a full scale output voltage of 3.5 V has a resolution close to 14 mV. Its bits size is

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- 4
- 8
- 16
- 32

11. 3. We use crystal oscillator because

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- It gives high output voltage
- It works at high frequency
- Frequency of oscillation remains substantially constant
- It requires very low dc supply voltage

12. 4. An 8-bit converter is used for a dc range of 0 -10V. Find the weight of LSB.

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- 39 mV
- 78 mV
- 39.2 mV
- 40 mV

13. 5. Cascade amplifiers are used for

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- Voltage amplification
- Video amplifiers
- Power amplifier
- Tuned amplifier

14. 6. The output of a certain op-amp circuit changes by 20 V in 4 μ s. Its slew rate is

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- 50 V/ μ s
 500 mV/ μ s
 5 V/ μ s
 500 V/ μ s

15. 7. The voltage follower is commonly used as

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- Switch
 Isolator
 Regulator
 None of these

16. 8. For an active integrator, the overall gain

Mark only one oval.

- Increase with frequency of input
 Decrease with input frequency
 Constant with frequency
 None of these

17. 9. Which of the following are the non-linear applications of OP-AMP?

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- Current-to-voltage converter
- Comparator
- Peak detector
- Limiter

18. 10. The resonant frequency of a Wien-bridge oscillator is around

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- 10 Hz
- 10 KHz
- 100 KHz
- 10MHz

19. 11. The main function of a voltage regulator is to provide a nearly..... output voltage.

Mark only one oval.

- Sinusoidal
- Constant
- Smooth
- Fluctuating

20. 12. Voltage regulator normally uses.....

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- Positive feedback
- Negative feedback
- No feedback
- Phase limiting

21. 13. Thermal shutdown occurs in an IC regulator if

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- Power dissipation is too low
- Internal temperature is too high
- Current through the device is too low
- Any of these occurs

22. 14. In a CB amplifier the maximum efficiency could be

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- 25%
- 50%
- 75%
- 33%

23. 15. The maximum rate of change of output voltage per unit time is

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- Slew rate
- CMRR
- Offset voltage
- None of these

24. 16. An OPAMP has

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- Equal input and output resistance
- Low input resistance and a large output resistance
- Large input resistance and low output resistance
- None of these

25. 17. The open loop voltage gain of an OPAMP is

Mark only one oval.

- Small
- Large
- Can be anything
- Unity

26. 18. The cut-in point of a capacitor filter is _____

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- The instant at which the conduction starts
- The instant at which the conduction stops
- The time after which the output is not filtered
- The time during which the output is perfectly filtered

27. 19. Which of the following are true about capacitor filter?

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- It is also called as capacitor output filter
- It is electrolytic
- It is connected in parallel to load
- It helps in storing the magnetic energy

28. 20. The inductor is placed in the L section filter because _____

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- It offers zero resistance to DC component
- It offers infinite resistance to DC component
- It bypasses the DC component
- It bypasses the AC component

29. 21. The advantages of a pi-filter is _____

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- low output voltage
- low PIV
- low ripple factor
- high voltage regulation

30. 22. The number of pins of the IC741 OP-AMP is

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- 10
- 8
- 12
- 7

31. 23. An astable multivibrator has

Mark only one oval.

- No stable state
- Single stable state
- Two stable state
- None of these

32. 24. The open loop voltage gain of an OPAMP is

Mark only one oval.

- Small
- large
- unity
- can be anything

33. 25. Phase shift oscillator has the following advantage

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- It does not contain transformer or inductor
- It provides good frequency stability
- It can produce low frequency
- It provides very small feedback

34. 26. Wein bridge oscillator has the following disadvantage

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- It can generate frequency up to 1 MHz only
- It requires large number of components
- Output is constant
- There is a loading effect

35. 27. An instrumentation amplifier uses

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- 1 op-amp
- 2 op-amp
- 4 op-amp
- 3 op-amp

36. 28. The transfer characteristic of a transconductance amplifier is

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- $g_m = I_0/V_s$
- $A_i = I_0/I_s$
- $A_v = V_0/V_s$
- $r_m = V_0/I_s$

37. 29. Which of the following is not an essential element of d.c. power supply

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- Rectifier
- Filter
- Voltage Regulator
- Voltage Amplifier

38. 30. Voltage regulator normally uses.....

Mark only one oval.

- Positive feedback
- Negative feedback
- No feedback
- Phase limiting

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