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

Course Name - Basic Electronics II : Analog Electronics
Course Code - EC201 (BL) - BSCHN, BSCCS

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Answer all the questions. Each question carry one mark.

9. 1.If the differential voltage gain and the common mode voltage gain of a differential amplifier are 48dB and 2 dB respectively, then its common mode rejection ratio is

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- 23dB
- 25dB
- 46dB
- 50dB

10. 2. An ideal OP AMP has

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- infinite input impedance
- zero output impedance
- infinite voltage gain
- all of the these

11. 3. The feedback element in the integrator is a

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- capacitor
- inductor
- diode
- resistance

12. 4. The open loop voltage gain of an OPAMP is

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- small
- large
- can be anything
- unity

13. 5. The voltage gain of an OP AMP non-inverting amplifier is

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- less than unity
- greater than unity
- equal to unity
- None of these

14. 6. Barkhausen Criterion for oscillator stability is

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- $A\beta = 0$
- $A\beta = 1$
- $-A\beta = 1$
- $A = 1/\sqrt{\beta}$

15. 7. Feedback factor of RC-phase shift oscillator should be

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- 29
- 1/29
- 1
- 100

16. 8. The use of negative feedback

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- reduces the voltage gain of an Op-amp
- makes the Op-amp oscillate
- makes linear operation possible
- both reduces the voltage gain of an Op-amp & makes the Op-amp oscillate

17. 9.The phase shift oscillator requires an external phase shift of

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- 90°
- 180°
- 270°
- 360°

18. 10. If FET operates in cut-off, the depletion layers are

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- Touching each other
- Close together
- Far apart
- None of these

19. 11. A FET operates on

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- Majority carriers only
- Minority carriers
- Positive and negative ions
- Positively charged ions

20. 12. Which of the following devices is expected to have the highest input impedance

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- MOSFET
- BJT
- JFET
- None of these

21. 13. A FET is better chopper than a BJT because it has

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- Low offset voltage
- High input voltage
- High input current
- High series ON resistance

22. 14 The voltage gain of single-stage CE amplifier increases with

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- Increase in ac load resistance
- Decrease in ac load resistance
- Increase in source resistance
- Increase re

23. 15. How to improve CMRR value

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- Increase common mode gain
- Decrease common mode gain
- Increase Differential mode gain
- Decrease differential mode gain

24. 16. In which of the following configuration does a MOSFET works as an amplifier?

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- Common Source (CS)
- Common Gate (CG)
- Common drain (CD)
- All of these

25. 17. The transistor operates in saturation region if

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- Collector junction is reverse biased and the emitter junction is forward biased
- Collector junction is forward biased and the emitter junction is reverse biased
- Both the collector junction and the emitter junction are forward biased
- Both the collector junction and the emitter junction are reverse biased

26. 18. The input resistance of 741 OPAMP is

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- 100 Ω
- Approx. 20 kΩ
- Approx. 2 MΩ
- 20 MΩ

27. 19. Which of the following is not an example for non-sinusoidal oscillator?

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- Sawtooth Generators
- Blocking oscillators
- Multivibrator
- Crystal oscillators

28. 20. An oscillator of LC type that has a split capacitor in the circuit is

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- Hartley oscillator
- Colpitt oscillator
- Wein-bridge oscillator
- RC phase shift oscillator

29. 21. Which of the following oscillator cannot be used in low frequency oscillations?

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- Wein bridge oscillators
- RC phase shift oscillators
- Colpitts oscillators
- RC oscillators

30. 22. The operating point is also called the .....

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- Cut off point
- Quiescent point
- Saturation point
- None of these

31. 23. The voltage follower is commonly used as

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- Switch
- Isolator
- Regulator
- None of these

32. 24. A quartz crystal oscillator consists of

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- Only series resonant frequency
- Only parallel resonant frequency
- Both series and parallel frequencies
- Neither series nor parallel frequency

33. 25. Every practical oscillator loop gain is

Mark only one oval.

- Less than unity
- Greater than unity
- Equal to unity
- None of these

34. 26. Phase shift oscillator has the following advantage

Mark only one oval.

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

35. 27. The highest frequency stability is obtained in

Mark only one oval.

- ◯ Colpit oscillator
- ◯ Crystal oscillator
- ◯ Hartley oscillator
- ◯ Phase shift oscillator

36. 28. 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 volatge

37. 29. When a large sine wave drives a Schmitt trigger, the output is a

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- ◯ Rectangular wave
- ◯ Triangular wave
- ◯ Rectified sine wave
- ◯ Series of ramps

38. 30. 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

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