Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - Fundamental of Electronics Course Code - DME401

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8.

Mark only one oval.
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Bachelor of Pharmacy
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B.SC.(CS)
B.SC.(BT)
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BBA
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BBA(LLB)
B.OPTOMETRY
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B.SC.(MLT)
B.SC.(MRIT)
B.SC.(PA)
LLB
B.SC(IT)-AI
B.SC.(MSJ)
Bachelor of Physiotherapy
B.SC.(AM)
Dip.CSE
Dip.ECE
<u>DIP.EE</u>
DIPCE

9.

DIP.ME
PGDHM
MBA
M.SC.(BT)
M.TECH(CSE)
LLM
M.A.(JMC)
M.A.(ENG)
M.SC.(MATH)
M.SC.(MB)
M.SC.(MSJ)
M.SC.(AM)
M.SC.CS)
M.SC.(ANCS)
M.SC.(MM)
B.A.(Eng)
Answer all the questions. Each question carry one mark.
1.Convert (0.345)10 into an octal number
Mark only one oval.
(0.16050)8
(0.26050)8
(0.19450)8
(0.24040)8

10.	2.Convert binary to octal: (110110001010)2 =?
	Mark only one oval.
	(5512)8
	(6612)8
	(4532)8
	(6745)8
11.	3.Binary subtraction of 100101 – 011110 is
	Mark only one oval.
	111
	10101
	111000
	101010
12.	4.Divide the binary numbers: 111101 ÷ 1001 and find the remainder
	Mark only one oval.
	10
	1010
	1100
	11

13.	5.On subtracting (01010)2 from (11110)2 using 1's complement, we get
	Mark only one oval.
	1001
	11010
	10101
	10100
14.	6.1's complement can be easily obtained by using
	Mark only one oval.
	Comparator
	Inverter
	Adder
	Subtractor
15.	7.For arithmetic operations which one is faster?
	Mark only one oval.
	1's complement is used
	2's complement
	10's complement
	9's complement

16.	8.The digit F in Hexadecimal system is equivalent to in decimal system.
	Mark only one oval.
	13
	14
	15
	17
17.	9.The value of base x is: (211) x = (152)8
	Mark only one oval.
	5
	<u> </u>
	7
	8
18.	10.The inverter can be produced with how many NAND gates?
	Mark only one oval.
	1
	2
	<u>3</u>
	4

19.	11. Which is an incorrect rule of binary subtraction from the following?
	Mark only one oval.
	0 - 0 = 0
	0 - 1 = -1
	1 - 0 = 1
	0 − 1 = 1 with borrow '1'
20.	12.The decimal equivalent of the binary number (1011.011)2 is
	Mark only one oval.
	(11.375)10
	(10.123)10
	(11.175)10
	(9.23)10
21.	13.A three digit decimal number requires for representation in the conventional BCD format.
	Mark only one oval.
	3 bits
	6 bits
	12 bits
	24 bits

22.	14.The advantages of a junction transistor over the vacuum triode is
	Mark only one oval.
	high power consumption
	High efficiency
	large size
	Less doping
23.	15.In an NPN transistor, the arrow is pointed towards
	Mark only one oval.
	the collector
	The base
	the emitter
	Depends on the configuration
24.	16.When does the transistor act like an open switch?
	Mark only one oval.
	cut off region
	Active region
	saturated region
	None of these

25.	17.The transfer of a signal in a transistor is
	Mark only one oval.
	Ow to high resistance
	High to low resistance
	collector to base junction
	Emitter to base junction
26	10 lp a DND transiator aparating in active region, the main stream of current is
26.	18.In a PNP transistor operating in active region, the main stream of current is
	Mark only one oval.
	drift of holes
	Drift of electrons
	diffusion of holes
	Diffusion of electrons
27.	19.The AC current gain in a common base configuration is
	Mark only one oval.
	-ΔΙC/ΔΙΕ
	ΔΙC/ΔΙΕ
	ΔΙΕ/ΔΙΟ
	-ΔΙΕ/ΔΙΟ

28.	20.The base current amplification factor β is given by-
	Mark only one oval.
	O IC/IB
	☐ IB/IC
	IE/IB
	IB/IE
29.	21.In ICEO, what does the subscript 'CEO' mean?
	Mark only one oval.
	collector to base emitter open
	Emitter to base collector open
	collector to emitter base open
	Emitter to collector base open
30.	22.The application of a CC configured transistor is
	Mark only one oval.
	voltage multiplier
	Level shifter
	rectification
	Impedance matching

31.	23.The output resistance of transistor is given by-
	Mark only one oval.
	ΔVCΕ/ΔΙΒ
	ΔVΒΕ/ΔΙΒ
	ΔVΒΕ/ΔΙC
	ΔVCΕ/ΔΙC
32.	24.How many NAND circuits are contained in a 7400 NAND IC?
	Mark only one oval.
	2
	4
	8
	<u> </u>
33.	25.In which operation carry is obtained?
	Mark only one oval.
	Subtraction
	Addition
	Multiplication
	Both addition and subtraction

34.	26.If A, B and C are the inputs of a full adder then the carry is given by-
	Mark only one oval.
	A AND B OR (A OR B) AND C
	A OR B OR (A AND B) C
	(A AND B) OR (A AND B)C
	A XOR B XOR (A XOR B) AND C
35.	27.How many AND, OR and EXOR gates are required for the configuration of ful adder?
	Mark only one oval.
	1, 2, 2
	2, 1, 2
	3, 1, 2
	4, 0, 1
36.	28.Let the input of a subtractor is A and B then what the output will be if A = B?
	Mark only one oval.
	O
	1
	\bigcirc A
	В

37.	29. The output of a subtractor is given by (if A, B and X are the inputs)-
	Mark only one oval.
	A AND B XOR X
	A XOR B XOR X
	A OR B NOR X
	A NOR B XOR X
38.	30.A differential amplifier-
	Mark only one oval.
	is a part of an Op-amp
	has one input and one output
	has two outputs
	is a part of an Op-amp, has one input and one output
39.	31.In the common mode
	Mark only one oval.
	both inputs are grounded
	the outputs are connected together
	an identical signal appears on both the inputs
	the output signal are in-phase

40.	32.If ADM = 3500 and ACM = 0.35, the CMRR is
	Mark only one oval.
	1225
	80 dB
	10000
	Both 1225 and 80 dB
41.	33.With zero volts on both inputs, an OP-amp ideally should have an output-
	Mark only one oval.
	equal to the positive supply voltage
	equal to the negative supply voltage
	equal to zero
	equal to CMRR
42.	34.A certain OP-amp has bias currents of 50 μA. The input offset current is
	Mark only one oval.
	700 nA
	99.3 μΑ
	49.7 μΑ
	None of these

43.	35.The output of a particular Op-amp increases 8V in 12µs. The slew rate is
	Mark only one oval.
	90 V/μs
	0.67 V/μs
	1.5 V/μs
	None of these
44.	36.For an Op-amp with negative feedback, the output is
	Mark only one oval.
	equal to the input
	increased
	feedback to the inverting input
	feedback to the non-inverting input
45.	37.Negative feedback-
	Mark only one oval.
	increases the input and output impedances
	increases the input impedance and bandwidth
	decreases the output impedance and bandwidth
	does not affect impedance or bandwidth

46.	38.A certain non-inverting amplifier has Ri of 1 k Ω and Rf of 100 k Ω . The closed-loop voltage gain is
	Mark only one oval.
	10000
	1000
	101
	100
47.	39.A voltage follower:
	Mark only one oval.
	has a voltage gain of 1
	is non-inverting
	has no feedback resisto
	All of these
48.	40.The Op-amp can amplify:
	Mark only one oval.
	a.c. signals only
	d.c. signals only
	both a.c. and d.c. signals
	None of these

49.	41.The input offset current equals the-
	Mark only one oval.
	difference between two base currents
	average of two base currents
	collector current divided by current gain
	None of these
50.	42.The common-mode voltage gain is
	Mark only one oval.
	smaller than differential voltage gain
	equal to differential voltage gain
	greater than differential voltage gain
	None of these
51.	43.Current cannot flow to ground through:
	Mark only one oval.
	a mechanical ground
	an a.c. ground
	a virtual ground
	an ordinary ground

52.	44.In the design of a biasing circuit, the value of collector load RC is determined by
	Mark only one oval.
	VCE consideration
	VBE consideration
	IB consideration
	None of these
53.	45.If the temperature increases, the value of VCE:
	Mark only one oval.
	Remains the same
	Decreases
	Increases
	None of these
54.	46.The inputs of a NAND gate are connected together. The resulting circuit is
	Mark only one oval.
	OR gate
	AND gate
	NOT gate
	None of these

55.	47.The only function of NOT gate is to
	Mark only one oval.
	Top signal Invert input signal
	Act as a universal gate
	None of these
56.	48.In which of the following base systems is 123 not a valid number?
	Mark only one oval.
	Base 10
	Base 16
	Base 8
	Base 3
57.	49.A diode whose terminal characteristics are related as i = Is eV/VT(Is is the reverse saturation current, and VT is the thermal voltage(=25mV)) is biased at i = 2mA. Its dynamic resistance is
	Mark only one oval.
	25Ω
	12.5Ω
	50Ω
	50 kΩ

58.	50.Storage of 1KB means the following number of bytes
	Mark only one oval.
	1000
	964
	1024
	1064
59.	51.The number 1000 would appear just immediately after
	Mark only one oval.
	FFFF(Hex)
	1111(binary)
	7777(octal)
	All of these
60	F2 Most of the digital commuters do not have floating point hardware because
60.	52.Most of the digital computers do not have floating point hardware because
	Mark only one oval.
	floating point hardware is costly
	It is slower than software
	It is not possible to perform floating point addition by hardware
	No specific reason

61.	53. Which of the following gate is a two-level logic gate
	Mark only one oval.
	OR gate
	NAND gate
	EX-OR gate
	NOT gate
62.	54.An OR gate ha 6 input The number Of input words in its truth table are
	Mark only one oval.
	<u> </u>
	32
	<u>64</u>
	128
63.	55.When an input signal 1 is applied to a NOT gate, the output is
	Mark only one oval.
	"0"
	u1"
	Either "0" or "1"
	None of these

64.	56.When a P-N junction is reverse-biased
	Mark only one oval.
	Its depletion layer become narrow Its barrier potential decreased Its breaks It offers high resistance
65.	57.he conduction band of a semi-conductor material may be
66.	58.An atom is said to be ionized when any one of its orbiting electron Mark only one oval. Jumps from one orbit to another Is raised to a higher orbit Comes to the ground state Is completely removed

67	. 59.The main reason why electrons can tunnel through a P-N junction is that
	Mark only one oval.
	They have high energy
	Barrier potential is very low
	Depletion layer is extremely thin
	Impurity level is low
68	. 60.The d.c. output voltage of a bridge rectifier having a total secondary peak voltage of 100 V is volt.
	Mark only one oval.
	63.6
	31.8
	90
	70.7

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