CG-11-2020 WINTER EXAM 2020

Subject Name: RB-29_PHYSICS - Digital & Communication Electronics-XV (CBCS) OR_VI_19-03-2021 Date: 19/03/2021 Duration : 60 min. Instruction / सुचना / :-* Follow the detail instructions given on OMR Sheet * ओ एम आर वरील सर्व सूचनांचे पालन करावे. Base of Binary number system is A]8 C]2 B]10 D]16 Q.2 Weight of 5 in adeeimal number 3528 is. A]100 14 C]10 B]1000 D]1 114 Q.3 Decimal equivalent of (1010)₂ = A) 8 B) 10 C) 20 D) 100 Q.4 1's complement of binary number (1001), is. A) 1001 B) 1100 C) 1010 D) 0110 Q.5 $(1001)_2 + (1100)_2 = \dots$ A) 11001 B) 10101 C) 11100 D) 10100 114 114 Q.6 (108)₁₀ = (... A) 152 B) 151 C) 154 D) 157 Q.7 Hexadecimal equivalent of (10101101)₂ A) A D B) BC D) B.D D) AC Q.8 (11110011)₂ = (?)_{Gray.}
A) 10010011
B) 10011100
C) 10001010
D) 10001111 114 114 Q.9 (54)₁₀ = (.....)_{Ex-3} A) 57 B) 10000111 C) 87 D) 10110111 114 114 Q.10 (0011)₂ - (0010)₂ = (......)₂ A) 0001 B) 1000 C) 1010 D) 0100 Q.11 If both inputs are low the output of OR-gate is A) High B) 1 C) ∞ D) Low Q.12

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The symbol of NOT Gate
A)
B) —
c)
D)

D)		
Q.13 If both the inputs of AND gate are high then output is A) Low B) 0 C) High D) ∞	114	114
Q.14 In Ex-NOR gate when two inputs are high the output is A) Low B) Zero C) High D) ∞	114	114
Q.15 Logical expression for two input NOR-Gage is A) $\overline{A+B}$ B) $\overline{A}+\overline{B}$ C) $\overline{A}.\overline{B}$ D) $\overline{A}.\overline{B}$.	114	114
Q.16 According to Rate of Boolean algebra A + A = 1) 1 B) 0 C) A D) A	114	114
Q.17 According to Demorgans theorem $\overline{A+B+C+D}=$ A) $\overline{A}+\overline{B}+\overline{C}+\overline{D}$ B) $A+B+C+D$ C) $\overline{A+B}+\overline{C}+\overline{D}$ D) \overline{A} . \overline{B} . \overline{C} . \overline{D}	114	114
Q.18 In Boolean algebra A . 1 =	114	114
Q.19 The number of cell's in a 4 variable K-map is A]4 B]8	114 C]16 D]12	114
Q.20 (A+B)(A+C)= A)A+B B)A.BC C)A+BC D)A.BC	114	114
Q.21 In F.M of carrier is changed according to modulating signal. A]Amplitude B]Frequency	114 C]Wavelength D]Phase	114
Q.22 ec = Ec Cos (Wct + θ) is an expression for carrier frequency where . θ - is	114	114
Q.23 114	114	114

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A]flat B]narrow	C]sharp D]Smooth		
Q.37 The frequency response characterists A]sensitivity B]selectivity	ic of I.F. Amplifier determine of a Radio Reciver. C]fidelity D]Image frequency	114	
Q.38 A radio reciver is tuned to frequency A]1200 B]1250	800 kHr. If I.F. of the reciver is 455 KHz. then local oscillator frequency is KHz. C]1255 D]345	114	
Q.39 If two recivers A & B have sensitivities 10 µv & reciver. A) B B) Either A or B C) A D) None of the above		114	
Q.40 In Radio Reciver Audio Amplifier is us A]Carrier signal B]R.F.	sed to amplify signal from detector. C]A.M. D]Modulating signal	114	