MCQ questions for Digital Electronics II

1. The	resolution of an n bit DAC with a maximum input of 5 V is 5 mV. The value of n is					
A.	8					
B.	9					
C.	10					
D.	11					
2. An 8 bit DAC has a full scale output of 2 mA and full scale error of \pm 0.5%. If input is 10000000 the range of outputs is						
A.	994 to 1014 μA					
B.	990 to 1020 μA					
C.	800 to 1200 μA					
D.	none of the above					
3. The	basic storage element in a digital system is					
A.	flip flop					
B.	counter					
C.	multiplexer					
D.	encoder					
4. A 12 bit ADC is used to convert analog voltage of 0 to 10 V into digital. The resolution is						
A.	2.44 mV					
B.	24.4 mV					
C.	1.2 V					
D.	none of the above					
5. Qua	intization error occurs in					
A.	D/A converter					
B.	A/D converter					
C.	both D/A and A/D converter. D. neither D/A nor A/D converter					

6. In which of these does thermionic emission occur?								
A.	LED							
B.	LCD							
C.	VF display							
D.	None							
7. Ass DAC	Assertion (A): R-2R ladder type DAC has higher speed of operation than weighted resistor							
Reason (R): R-2R ladder type DAC uses only two different values of resistor network uses many different values of resistors								
A.	Both A and R are correct and R is correct explanation of A							
B.	Both A and R are correct but R is not correct explanation of A							
C.	A is true, R is false							
D.	A is false, R is true							
8. RAI	M can be expanded to							
A.	increase word size							
B.	increase word number							
C.	either increase word size or increase word number							
D.	none of the above							
9. Whi	ch one of the following is cor	rect?						
A.	RAM is a volatile memory but ROM is non-volatile memory							
B.	RAM is non-volatile memory but ROM is volatile memory							
C.	Both ROM and RAM are volatile but in ROM data is not lost when power is switched off							
D.	Both ROM and RAM are non-volatile but in RAM data is lost when power is switched off.							
10. Which of them radiates emission?								
A.	LED only	В.	LCD only					
C.	Both LED and LCD	D.	Neither LED nor LCD.					

11. Which multivibrator can be used as a clock timer?							
A.	Astable multivibrator						
B.	Bistable multivibrator						
C.	Any of the above						
D.	None of the above						
12. Dynamic memory cells are constructed using							
A.	FETs						
B.	MOSFETs						
C.	Transistors						
D.	Flip flops						
13. Wh	ich of the- following display consumes least amount of power?						
A.	LCD						
B.	LED						
C.	Fluorescent display						
D.	All display consume same power.						
14. A b	inary ladder network D/A converter requires						
A.	resistors of one value only						
B.	resistors of many different values						
C.	resistors of two different values						
D.	none of the above.						
15. The	e advantages of flash memory over EEPROM are						
A.	higher density						
B.	lower cost						
C.	both higher density and lower cost						
D.	none of the above.						

16. Which material is generally used for LED?											
A.	Compounds of silica			B.	Compounds	Compounds of gallium					
C.	Compounds of phosphorur			D.	Compounds	Compounds of sulphur.					
17. When all the seven segments of a display are energized, the number shown is											
A.	0	B.	1		C.	7	D.	8			
18. Schmitt trigger is used for wave shaping.											
A.	True B. Fa		False	е.	C. Can't say. D. None of these.			se.			
19. Monostable multivibrator is called one-shot or single-shot circuit because it											
A.	can be used once										
B.	can be used single and not with other circuits.										
C.	always returns by itself to its single stable state										
D.	changes to o	quasistal	ble for a	fixed	period	of time upon re	eceipt of	triggerin	g signal.		
20. A f	lip-flop circuit	is									
A.	monostable	B.	bistab	le	C.	multistable	ı	D.	unstable		
21. Co	nsider the fol	lowing s	tatemen	ts Tin	ner 555	can be used a	s				
monos	stable multivik	orator									
bistab	le multivibrato	or									
astable	e multivibrato	r									
Which	of the above	stateme	nts are o	correc	t?						
A.	1 and 2										
B.	1 and 3										
C.	2 and 3										
D.	1, 2, 3										
22. Consider the following two											
Statements 1: stable multivibrator can be used for generating square wave.											

Statements 2: stable multivibrator can be used for storing binary information.

- A. only statement 1 is correct
- B. only statement 2 is correct
- C. both statements are correct
- D. both the statements 1 and 2 are not correct.
- 23. A Charge Couple Device (CCD) is a
- A. RAM
- B. sequential accessed memory
- C. content addressable memory
- D. read only memory
- 24. In magnetic film memory, the memory element consits of
- A. plated wires
- B. superconductive material
- C. nickel iron alloy
- D. doped aluminium.
- 25. In RAM, all the information can be obtained at the output with
- A. minimum time delay
- B. unequal time delay
- C. nearly identical time delay
- D. maximum time delay