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Name:

Test Type

Chapter



MCQs, Short & Long question

18 Start to before Operational Amplifier



Roll No.

Class

Unit

(For information O3335126161 parhozone@gmail.com)

12

18

Subject

Date

Time

Physics

Q. No. 1 Tick the best option 26							
1.	A photodiode can turn its current ON and OFF in:						
	(a) Milli-seconds (b) Mirco-seconds	(c) Nano-seconds	(d) Mega-seconds				
2.	The size of base in a transistor is of the order of:						
	(a) 10^{-4} m (b) 10^{-6} m	(c) 10 ⁻⁸ m	(d) 10^6 m				
3.	The phase difference between input voltage and o						
	(a) 0° (b) 90°	(c) 180°	(d) 120°				
4.	A transistor has a base current of 1 mA and emitte						
	(a) 1 (b) 99	(c) 100	(d) 101				
5.	The output voltage of a rectifier is:						
	(a) Perfectly direct (b) Smooth DC	(c) Pulsating DC	(d) Alternating				
6.	The potential barrier in diode stops movement of:						
	(a) Electrons (b) Holes	(c) Photons	(d) A & B both				
7.	In forward biasing a p-n junction ideal, offers:	90 Writer 9027	NEW LES W. N.				
728	(a) High resistance (b) Infinite resistance (c) Low resistance (d) Zero resistance						
8.	In reverse biasing a p-n junction diode the resistar						
		(c) Micro-ohms	(d) Few-ohms				
9.	The number of diodes used in bridge rectifier circ		2.40024				
	(a) 3 (b) 2	(c) 1	(d) 4				
10.	The SI unit of current gain are:		V 15 3 7 1 1 1				
	(a) Volts (b) Ampere	(c) Ohm	(d) No unit				
11.	Which component of the transistor has highest con		45.5				
10	(a) Base (b) Emitter	(c) Collector	(d) Resistor				
12.	The value of barrier potential for silicon at room to		(D.0.7.1)				
10	(a) 0.3 V (b) 1.1 V	(c) 0.9 V	(d) 0.7 V				
13.	The current due to minority charge carriers in sem		718 416 - 6				
1.4	(a) Conventional current (b) Leakage current	(c) Electronic current	(d) Alternating current				
14.	A silicon solar cell with 4000 (mm) ² surface area (
16	(a) 6.0 W (b) 1.4 W	(c) 0.4 W	(d) 0.6 W				
15.	Which one of the following is not works at reverse (a) LEDs (b) Photodiode		(d) Phatamaltain call				
16.	(a) LEDs (b) Photodiode Depletion region carries:	(c) Zener diode	(d) Photovoltaic cell				
10.	(a) Positive charge (b) Negative charge	(c) Ions	(d) No charge carriers				
17.	Special type of semiconductors, which are used for						
17.	(a) C: (b) Ca	(a) CaAaD	(d) Both A & B				
18.	Which of the following diode is used for detection	of light?	(a) Both A & B				
10.	(a) Light emitted diode (b) Photodiode	(c) Photovoltaic cell	(d) All of these				
19.	The ratio of potential barrier of Ge to Si at room to		(a) The of these				
-2.	(a) 3:7 (b) 7:3	(c) 1:3	(d) 2:5				
20.	A diode characteristics curve is plotted between:	(-) -10	(-)				
	(a) Current and time (b) Voltage and time	(c) Voltage and current	(d) Voltage and resistance				
21.	Which factor does not affect the conductivity of P		(-)				
	(a) Doping (b) Voltage	(c) Temperature	(d) Pressure				
22.	A circuit which gives smooth D.C is known as:	1					
	(a) Modulator (b) Amplifier	(c) Rectifier	(d) Filter				
23.	When a P-N junction is reversed biased, the deple						
	(a) Widened (b) Narrowed	(c) Normal	(d) No change				
24.	Transistor is made from:		, ,				
	(a) Plastic (b) Metals	(c) Conductors	(d) Dopped semiconductors				
25.	Number of LEDs required to display all the digits	The second contract the second					
	(a) Five (b) Six	(c) Seven	(d) Eight				
26.	The color of light emitted by a LED depends on:	司 司	N 15 320				
	(a) Its forward biasing	emitted by a LED depends on: sing (b) Its reverse biasing					
	(c) The amount of forward biasing	(d) The nature of semi-c	onductor material used				
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Q. No. 2 Write the short answer of these following question

 $6 \times 2 = 12$

- 1) What is photodiode? Give its applications.
- 2) How depletion region formed? Define potential barrier?
- 3) Define current gain of transistor.
- 4) Define rectification. Draw the circuit diagram and output waveform of full wave rectifier.
- 5) What is transistor? Give its types and symbols.
- 6) How electrons flow in n-p-n transistor? Show the motion of electrons by block diagram.

Q. No. 3 Long question

05

1) How transistor is used as an amplifier?



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