## Electronics for Computer Engineering

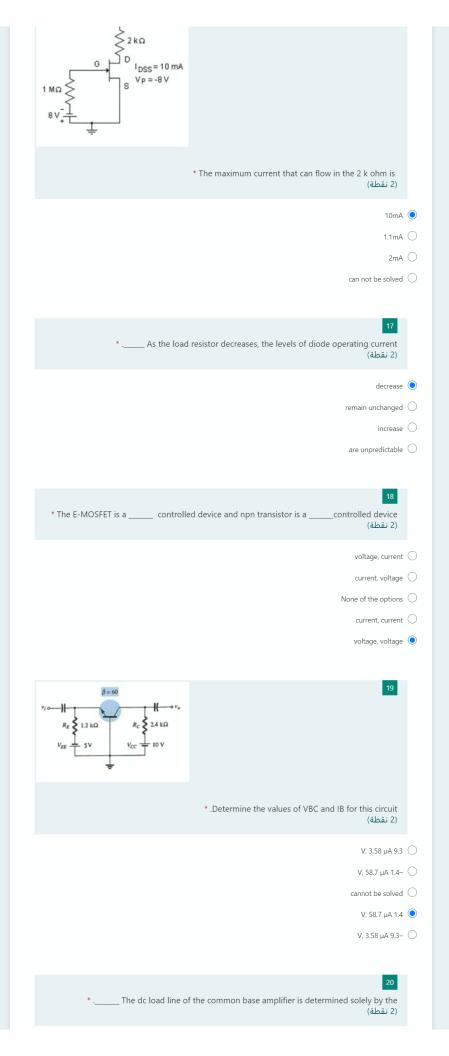
Submit عند إنهاء الإجابة على كامل الاسئله يجب تسليم اجابتك بالضغط على

مرحباً محمد، عند إرسال هذا النموذج، سيري مالك النموذج اسمك وبريدك الإلكتروني.	,
* مطلوب	i
1 * If the BJT transistor in CE configuration is in saturation then (2 نقطة)	
.IC is always equal to βIB	
.1C is always equal to – β1B	$\bigcirc$
.IC is greater than or equal to $eta$ IB	$\bigcirc$
.IC is less than βIB	0
2 * ?Which of the following ratings is true (2 نقطة)	
.Si diodes have higher PIV and narrower temperature ranges than Ge diodes	$\bigcirc$
.Si diodes have higher PIV and wider temperature ranges than Ge diodes	
.Si diodes have lower PIV and narrower temperature ranges than Ge diodes	$\bigcirc$
.Si diodes have lower PIV and wider temperature ranges than Ge diodes	0
* acircuit is a circuit which shifts the DC level of output voltage (1 نقطة)	
Clipper	$\bigcirc$
Clamper	
Rectifier	$\bigcirc$
Regulator	0
4 * ?What is the level of IG in a MOSFET (2) نقطة)	
Zero amperes	
Equal to ID	$\bigcirc$
Depends on VDS	$\bigcirc$
ID=IS	0
The depletion width in the forward bias, which results in having a majority flow across * .the junction (1 نقطة)	
increases	$\bigcirc$
remains unchanged	$\bigcirc$
reduces	

* The number of carriers participating in the operation principle of a unipolar device is (2) نقطة)	
а	3 (
1	1
	) (
2	2
7 * ?Which of the following is (are) the application(s) of a transistor (2 نقطة)	
Computer logic circuitry	, (
Switching and contro	(
Al	(
Amplification of signa	1
8 which one of the stability factors has the least impact on the device at a very high temperature  * ?in a voltage-divider biasing network of BJT amplifier  (قطة) 2)	
S(β)	)
S(ICO)	) (
Undefined	1
S(VBE	) (
S(IBO)	) (
9 * .The inner layer of a BJT transistor is the outer layers (2) نقطة)	
much smaller than	1
the same as	;
much larger than	1 (
None of the above	, (
* .Determine the value of $\alpha$ when $\beta$ = 100 (2) نقطة)	
0.01	
101	(
0.99	) (
Cannot be solved	1
Si * .Determine the resistor RL (قطقة 2)	

changes alternatively  $\, \bigcirc \,$ 

RL = 16 k $\Omega$ RL =  $5 k\Omega$ RL = 15 k $\Omega$ None of the above 🥥 12 \_The ratio of the total swing of the output of a clamper to its input peak-peak value is (2 نقطة) 1 🔘 0.5 🔘 2 🔾 0 0 The slope of the dc load line in a voltage-divider network in a common sources FET .48 \* .\_\_\_\_ amplifier is controlled by (2 نقطة) R1 🗸 VBE IDSS 🗸 VP 14  $^{\star}\,.....$  To increase the current-carrying capability, practical diodes are connected (2 نقطة) in parallel 🔘 in series  $\bigcirc$ in parallel-series None of the above  $\bigcirc$ + V<sub>CC</sub> R<sub>1</sub> Rc  $\beta_{DC}$ RE  ${}^{\star}$  In the voltage-divider biased NPN transistor circuit, if R1 opens, the transistor is (2 نقطة) operates in the saturation region  $\, \bigcirc \,$ operates in the cut off region  $\ \ \bigcirc$ operates in the active region .can not be determined  $\, \bigcirc \,$ 



buse	collector loop	•
base	e-emitter loop	(
	None	
collecto	r-emitter loop	
	21	
* to increase the total PIV rating, diodes are c	onnected (2 نقطة)	
None	e of the above	
	in parallel	(
in	parallel-series	(
	in series	•
60kΩ \$ 500 Ω	22	
the BJT has a current gain ( $\beta$ ) of 50. For an emitter – base voltage VEB = 0.7V, the * collector voltage VCE (	in Volts) is (2 نقطة)	
	2.04V-	
	2.04V	
can	not be solved	
	2.14-	
	2.14	
* The capacitors are used to in amplifier conf	23 igurations (2 نقطة)	
blo	ck the dc level	•
	allow dc level	
to sh	ift the Q point	$\subset$
All	of the options	
$\begin{array}{c} R_{I} = 1 \text{ k ohm} \\ \\ 10 \text{ v} \\ \end{array}$	24	
Determine the peak for both half cycles of the output waveform. if the Zener die	odes have	

v,-10.7 v 10.7 🔘

	V,-0.7 V 0.7	
3 (	v,-9.3 v 9.3	
	can not be solved	
	25	$V_{i} \circ V_{o} = 6 \text{ mA}$ $V_{i} \circ V_{o} = 70 \text{ M}$ $V_{i} \circ V_{o} = 70 \text{ M}$ $V_{i} \circ V_{o} = 70 \text{ M}$
	* ?what is the value of R2 that makes VGSQ equal to 1 V (2 نقطة)	
	MΩ 10	
	ΜΩ 100	
) (	ΜΩ 110	
2 (	ΜΩ 22	
. 0	None	
	ener diode, changing the can vary the value of Vz (قطق 2)	* . in the Z
. (	the load resistance	
. (	the input voltage	
t O	leakage current	
• 0	forward voltage	
n	doping concentration	
	إرسال	
	ا. إنشاء هذا المحتوى بواسطة مالك النموذج. سيتم إرسال البيانات التي ترسلها إلى مالك النم بم التشغيل بواسطة Microsoft Forms الخصوصية وملفات تعريف الارتباط   شروط الاستخ	