## https://selldocx.com/products/test-bank-grobs-basic-electronics-13e-schult

Stuc	lent name:	
1)	Resistors with higher resistance values usually have wattage ratings.	
2) appli	Since they are generally used for high-current ications, resistors are available in	wattage ratings from 1 W up to 100 W or more.
<b>3)</b> depo	mount resistors are constructed by siting a thick carbon film on a ceramic base.	
<b>4)</b> made	A resistor is a wire-wound resistor e to burn open easily when the power rating is exceeded.	
5) deter	The power or wattage rating of a resistor is mined by	
	<ul><li>A) color-coded bands</li><li>B) its function in a circuit</li></ul>	C) its physical size D) measuring its resistance
6)	A resistor is used to	
	A) limit current or produce a voltage drop B) step up current	C) increase voltage D) amplify signals

	A) resistance in ohms and tolerance in percentage B) resistance in ohms and power rating in watts C) resistance in ohms and conductivity in mhos	ohms	D) resistance in and power in joules
8) used is	In electronic equipment, the resistor most commonly the		
	A) wire-wound B) film-type	compo	C) carbon- osition D) carbon
9) resistar	What type of resistor is constructed by wrapping nce wire around an insulating core?		
	A) Carbon B) Carbon-composition		C) Film-type D) Wire-wound
10) resistor	What type of resistor is typically used as a precision r?		
	A) Carbon B) Carbon-composition		C) Film-type D) Wire-wound
11) metal o spiral?	What type resistor is formed by spraying a thin film of onto a ceramic substrate and then cut in the form of a		
	A) Carbon B) Wire-wound	compo	C) Carbon osition D) Metal-film

12) What is the resistor called that is designed to burn open easily when the power rating is exceeded?	
A) Thermistor B) Varistor	C) Fusible D) Chip
13) A resistor whose resistance value changes with changes in operating temperature is a	
A) thermistor B) varistor	C) fusible D) chip
14) What type resistor is frequently used in electronic circuits in which it is desired to provide temperature control?	
A) Thermocouple B) Thermodynamic	C) Thermistor D) Varistor
<b>15)</b> If a resistor is color-coded red, blue, and orange, what is its resistance value?	
A) 2500 ohms B) 2600 ohms	C) 26,000 ohms D) 260 ohms
<b>16)</b> The amount by which the actual resistance can differ from the color-coded value is the:	
<ul><li>A) power rating</li><li>B) temperature coefficient</li></ul>	C) tolerance D) differential resistance

17) of the 1	A resistor with a single black band around the center resistor body has a resistance of		
	A) one B) zero		C) 1000 D) infinity
<b>18)</b> from the	The resistance value of a chip resistor is determined he		
	<ul><li>A) color-code</li><li>B) size of the resistor</li><li>C) three digit number printed on the film or body</li></ul>	printed	D) three letters d on the body
19)	Variable resistors can be wire-wound or		
	A) carbon type B) metal-film type	type	<ul><li>C) fusible</li><li>D) zero resistance</li></ul>
<b>20)</b> variabl	The way resistance varies with shaft rotation in a le resistor is called the		
	A) variable of the control B) variance of the control	contro	C) rheostat D) taper of the
21) within	A device that is used to provide any one resistance a wide range of values is a		
	A) varistor B) decade box		C) fusible resistor D) decimal box

22)	Rheostats and potentiometers are referred to as		
	A) amplifiers B) fixed resistors	resisto	C) variable rs  D) fusible resistors
23)	A potentiometer has		C) three terminals
	A) one terminal B) two terminals		D) four terminals
24) connec	A variable resistance with two terminals that is cted in series with the load is a		
	A) potentiometer B) rheostat	transfo	C) tunable ormer D) varistor
	What resistive device is generally used to control ely large values of current in low-resistance circuits for ver applications?		
	A) Fusible resistor B) Potentiometer	resisto	C) Rheostat D) Zero-ohm
26)	Commercial rheostats are typically		
	<ul><li>A) wire-wound, high wattage resistors</li><li>B) wire-wound, low wattage resistors</li><li>C) carbon, high wattage resistors</li></ul>	wattag	D) metal-film, low ge resistors

27)	The power rating is a property of a resistor that	depends on the resistor's
	A) color-code B) size	C) function in a circuit D) composition
<b>28)</b> powe	For ambient temperatures greater than 70°C, the rating of a resistor must be	
	A) increased B) derated	C) doubled D) held constant
<b>29)</b> chara	When not used, resistors generally keep their cteristics	
	<ul><li>A) for about one week</li><li>B) for about one year</li><li>C) almost indefinitely</li></ul>	D) between one to two years
30)	The most common trouble in resistors is	
	A) an open B) a short	C) leakage D) lower than listed tolerance
31) make	What is indicated when a volume or tone control s a scratchy noise as the shaft is rotated?	
	<ul><li>A) Shorted resistance element</li><li>B) Open resistance element</li><li>C) Worn or dirty resistance element</li></ul>	D) Wrong resistance value

32)	Resistance is measured with a(n)	
	A) oscilloscope B) ohmmeter	C) ammeter D) voltmeter
33)	As measured with an ohmmeter, infinite ohms means	
	A) an open circuit B) a shorted circuit	C) low resistance D) zero resistance
34) displa	What may cause a much lower resistance value to be eyed on an ohmmeter when checking resistance in a t?	
	<ul><li>A) Low batteries in the ohmmeter</li><li>B) The circuit power is on</li></ul>	C) Parallel resistance paths D) Open resistors
35) period	Aging, which is normal resistor heating over a long d of time causes the resistor to exceed its	
	A) power rating B) derating factor	C) shelf life D) tolerance
36) of cur	The main function of a resistor is to limit the amount rent or produce a desired drop in voltage.	
	<ul><li>true</li><li>false</li></ul>	

37) The two main characteristics of a resistor are its

resistance in ohms and its

- o true
- ⊚ false

		rmistor is a thermally sensitive resistor whose
		ue changes with changes in operating
tempe	rature.	
	0	true
	0	false
39)	A resi	stor that is color-coded red, green, red has a
value	of 2500	ohms.
	_	4
	<u> </u>	true false
	0	laise
40)	The	amount by which the actual resistance can differ
		r-coded value is the positive temperature
coeffic		r coded value is the positive temperature
	0	true
	0	false
		ohm resistors are commonly found on printed
circuit	boards	<b>3.</b>
	0	true
	0	false
42)	Varial	ble resistors can be wire-wound or carbon type.
	0	truo
	<b>⊚</b>	true

0

false

45)	A potentiometer can never be wired as a rheostat.				
	<ul><li></li><li></li><li></li><li></li><!--</th--><th>true false</th><th></th></ul>	true false			
46) watta	Wire-wound resistors are larger and have higher age ratings than carbon resistors.				
	<ul><li></li><li></li><li></li><li></li><!--</td--><td>true false</td><td></td></ul>	true false			
<b>47)</b> keep 1		stors have a relatively short shelf life and only naracteristics for six to eight months.			
	© ©	false			
48)	The 1	nost common trouble in resistors is an open.			
Versio	on 1		10		

43)

44)

potentiometer.

0

0

three terminals.

0

0

true false

true

false

A decade resistance box is typically used as a

A rheostat has two terminals and a potentiometer has

o true o false

**49)** When checking resistance in a circuit, it is important to be sure there are no parallel resistance paths.

- o true
- false

## **Answer Key**

Schultz 13th ch2

Test name: Grobs Basic Electronics Author:

- 1) lower
- 2) wire-wound
- 3) Surface
- 4) fusible
- 5) C
- 6) A
- 7) B
- 8) D
- 9) D
- 10) D
- 11) D
- 12) C
- 13) A
- 14) C
- 15) C
- 16) C
- 17) B
- 18) C
- 19) A

- 20) D
- 21) B
- 22) C
- 23) C
- 24) B
- 25) C
- 26) A
- 27) B
- 28) B
- 29) C
- 30) A
- 31) C
- 32) B
- 33) A
- 34) C
- 35) D
- 36) TRUE
- 37) FALSE
- 38) TRUE
- 39) TRUE
- 40) FALSE

- 41) TRUE
- 42) TRUE
- 43) FALSE
- 44) TRUE
- 45) FALSE
- 46) TRUE
- 47) FALSE
- 48) TRUE
- 49) TRUE