Exam		
Name		
MULTIPLE CHOICE. Choose the one alternative	that best completes the statement or answers the question	۱.
1) In the number 12.345, the 3 is in the A) tens B) ones C) tenths D) hundredths E) thousandths Answer: C Diff: 0 Type: MC	place.	1)
TRUE/FALSE. Write 'T' if the statement is true an	d 'F' if the statement is false.	
2) In the number 123.45, the digit 5 is in the Answer: True False Diff: 0 Type: TF	hundreds place.	2)
3) Paracelsus was a Greek philosopher.Answer: True FalseDiff: 0 Type: TF		3)
MULTIPLE CHOICE. Choose the one alternative	that best completes the statement or answers the question	۱.
 4) In order to enhance your learning in cher A) be an active learner. B) form a study group. C) go to professor's office hours. D) study a little every day. E) wait until the night before the exam Answer: E 		4)
Diff: 0 Type: MC		
 5) There is more traffic between 8:00 and 9:0 would be a(n) A) observation. C) conclusion/theory. Answer: B Diff: 0 Type: MC 	00 AM because most people start work at 9:00 AM. This B) hypothesis. D) experiment.	5)
 6) One example of a chemical used in tooth A) sulfur. B) calcium carbonate. C) carbon dioxide. D) sugar. E) chlorine. Answer: B Diff: 0 Type: MC 	paste is	6)

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
 Keeping a problem notebook will help you do well in your chemistry class. Answer: ■ True False 	7)
Diff: 0 Type: TF	
8) If 12 students in a class of 36 students got an "A" grade on the exam, 33% of the students earned an "A".	8)
Answer: True False Diff: 0 Type: TF	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.	
 9) Which of the following would NOT be part of a study plan to learn chemistry? A) form a study group B) work the sample problems C) read the chapter before class D) study a little every day E) skip your professor's office hours Answer: E Diff: 0 Type: MC 	9)
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
10) You should always look at the given answer to a problem before you attempt to solve the problem.	10)
Answer: True False Diff: 0 Type: TF	
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.	
11) 40 students complete the first semester chemistry course. If 32 students take the second semester class,% are taking this class.	
Answer: 80 Diff: 0 Type: SA	
12) An abrasive used in toothpaste is 12)	
Answer: calcium carbonate Diff: 0 Type: SA	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.	
13) Written in scientific notation, 8300 is	13)
A) 8.3×10^2 . B) 8.3×10^{-2} . C) 8.3×10^3 . D) 8.3×10^4 . E) 8.3×10^{-3} . Answer: C	
Diff: 0 Type: MC	
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.	
14) Express using scientific notation: 0.000 000 050	
Answer: 5.0 × 10 ⁻⁸ Diff: 0 Type: SA	

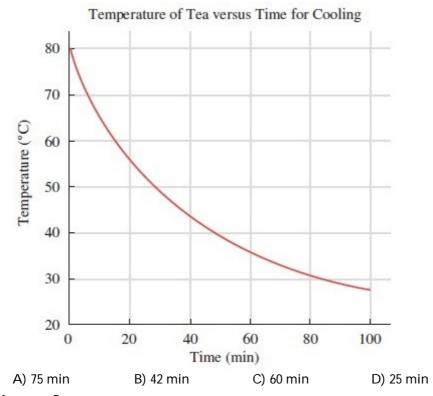
$\label{eq:multiple} \textbf{MULTIPLE CHOICE}. \ \ \textbf{Choose the one alternative that best completes the statement or answers the question}.$	
15) Which of the following is NOT a chemical? A) sugar B) salt C) carbon dioxide D) water E) light Answer: E Diff: 0 Type: MC	15)
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.	
16) The substances released when tissues are injured are 16) Answer: prostaglandins Diff: 0 Type: SA	
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
17) In the number 123.45, the digit 3 is in the ones place. Answer: True False Diff: Type: TF	17)
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.	
 18) When a part of the body is injured, substances called are released. A) pain relievers B) chlorofluorocarbons C) prostaglandins D) nitrogen oxides E) aspirins Answer: C Diff: 0 Type: MC 	18)
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
19) Titanium dioxide in toothpaste is used as a detergent.Answer: True FalseDiff: 0 Type: TF	19)
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.	
20) The chemical used to make cans and foil is 20) Answer: aluminum Diff: 0 Type: SA	
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
21) 3.5 × 10 ³ is equal to 3500. Answer: True Type: TF	21)

Doing experiments to test your hypothesis is part of the scientific method.	22)
Answer: True False Diff: 0 Type: TF	
23) When -7 is added to -5 the answer is 12.	23)
Answer: True False Diff: 0 Type: TF	
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.	
24) The first step in the scientific method is to 24)	
Answer: make observations Diff: 0 Type: SA	
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.	
25) Working with a group of students can help you learn chemistry.	25)
Answer: True False Diff: 0 Type: TF	
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the questi	on.
26) Written in scientific notation, 540 000 is	26)
A) 0.54×10^6 . B) 5.4×10^5 . C) 54×10^8 . D) 5.4 . E) 5.4×10^{-5}	5.
Answer: B Diff: 0 Type: MC	
27) You notice that there is more traffic between 8:00 and 9:00 AM. This would be a(n)	27)
A) experiment. B) hypothesis. C) observation. D) conclusion/theory.	
Answer: C	
Diff: 0 Type: MC	

29) ____

30) ____

31)



Answer: B
Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

29) Calcium carbonate is used to sweeten toothpaste.

Answer: True

✓ False

Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 30) Titanium dioxide is a chemical used in toothpaste to
 - A) make the toothpaste white.
 - B) remove plaque.
 - C) strengthen tooth enamel.
 - D) disinfect the toothbrush.
 - E) keep the paste from spoiling.

Answer: A

Diff: 0 Type: MC

31) 16 is what percentage of 80?

A) 2%

B) 50%

C) 20%

D) 200%

E) 5%

E) 35 min

Answer: C

Diff: 0 Type: MC

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

32) The first step in the scientific method is to draw a conclusion.

32) _____

Answer:

True False

Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

33) Written in scientific notation, 0.000 004 03 is

33) _____

- A) 0.403×10^{-5} .
- B) 4.03×10^{-6} .
- C) 4.03.
- D) 4.03×10^{6} .
- E) 4.03×10^{-7} .

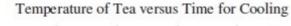
Answer: B

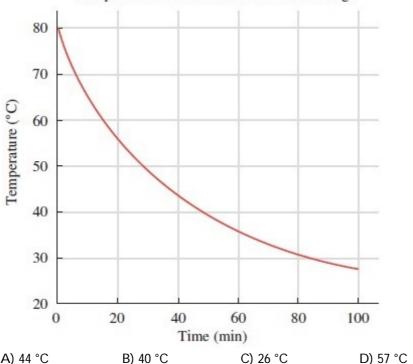
Diff: 0 Type: MC

34) On the graph, what is the temperature after 40 minutes?

34)







A) 44 °C Answer: A

Diff: 0 Type: MC

E) 36 °C

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

35) Express using scientific notation: 351 000 000 000

35)

Answer: 3.51×10^{11} Diff: 0 Type: SA

TRUE/FALSE. \	/rite 'T' if the s	statement is true	e and 'F' if the statem	ent is false.		
36) If -2x	= 8, x is equal to	o 4.				36)
Answ Diff: 0	r: True Type: TF	False				
MULTIPLE CH	OICE. Choose	the one alternat	ive that best comple	tes the statement or	answers the question.	
37) 12 is v A) :	hat percentage 3%	e of 36? B) 30%	C) 12%	D) 3%	E) 330%	37)
Answ Diff: 0	r: A Type: MC					
SHORT ANSW	R. Write the v	vord or phrase t	hat best completes e	ach statement or ans	swers the question.	
38) A sub	tance that alwa	ays has the same	e composition and pro	operties is called a(n) 38)	
Answ Diff: 0	r: chemical Type: SA					
39) The se	cond step in the	e scientific meth	nod is to		39)	
Answ Diff: 0	r: form a hypo Type: SA	othesis				
TRUE/FALSE. \	/rite 'T' if the s	statement is true	e and 'F' if the statem	ent is false.		
40) 2.25 ×	10-4 is equal to	22500.				40)
Answ Diff: 0	er: True Type: TF	False				
MULTIPLE CH	OICE. Choose	the one alternat	ive that best comple	tes the statement or	answers the question.	
	n fluorophosph lisinfect the too		al used in toothpaste	10		41)
В) і	emove plaque.					
	trengthen tooth nake the paste					
	eep the paste f					
Answ Diff: 0	r: C Type: MC					
SHORT ANSW	R. Write the v	vord or phrase t	hat best completes e	ach statement or ans	swers the question.	
42) Expre	s using scientif	fic notation: 5 2	07 000		42)	
Answ Diff: 0	er: 5.207 × 10 ⁶ Type: SA					

MU	LTIPLE CHOICE. Choose	the one alternative	e that best comple	etes the statement or a	answers the questi	on.
	43) In the number 12.345 A) tens B) ones C) tenths D) hundredths E) thousandths Answer: A Diff: 0 Type: MC	o, the 1 is in the	place.			43)
TRU	JE/FALSE. Write 'T' if the	statement is true ar	nd 'F' if the stater	ment is false.		
	44) It is a good idea to w Answer: True Diff: 0 Type: TF	ait until the night b False	efore an exam to	start to study.		44)
MU	LTIPLE CHOICE. Choose	the one alternative	e that best comple	etes the statement or a	answers the questi	on.
	45) The product of (-4) \times A) .1	(-5) is B) -1	C) .20	D) -20	E) 0	45)
	Answer: C Diff: 0 Type: MC					
	46) For the equation 6y - A) -2	20 = -2 , <i>y</i> equals B) 4	C) 3	D) 2	E) -3	46)
	Answer: C Diff: 0 Type: MC					
	47) In this list, which sub A) heat	ostance can be class	ified as a chemica	ıl?		47)
	B) temperature C) salt D) cold E) sleep					
	Answer: C Diff: 0 Type: MC					
	48) In the number 12.345 A) tens B) ones C) tenths D) hundredths E) thousandths Answer: D	5, the 4 is in the	place.			48)
	Diff: 0 Type: MC					

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.						
	aterial used in o r: chemical Type: SA	or produced by a che	mical reaction is a(n)	·	49)	
-	s using scientifi r: 8.60 × 10 ⁻⁴ Type: SA	c notation: 0.000 860			50)	
-	number 45.678, r: tenths Type: SA	the digit 6 is in the _	place.		51)	
MULTIPLE CHC	ICE. Choose th	ne one alternative th	at best completes the	e statement or answe	rs the question.	
52) Water,	H ₂ O, is an exar		,		1,	52)
B) cl C) w D) el E) el Answe	nemical. vave. ectric charge. ement.					
53) For the A) 4 Answe Diff: 0	equation: -10 r: B Type: MC	- (-4) = B) -6	C) 6	D) 14	E) -14	53)
TRUE/FALSE. W	rite 'T' if the st	atement is true and '	'F' if the statement is	false.		
_	ative number is r: O True Type: TF	-	negative number, the	e answer will be a po	sitive number.	54)
MULTIPLE CHC	ICE. Choose th	ne one alternative th	at best completes the	e statement or answe	rs the question.	
55) Which A) h Answe Diff: 0	eat	g is a chemical? B) sugar	C) sound	D) noise	E) light	55)
56) For the A) 8 Answe Diff: 0		2 = 10 , <i>x</i> equals B) 3	C) 12	D) 2	E) -2	56)

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

57) If one experiment is successful, your hypothesis becomes a scientific theory.

Answer: True False

57)

Answer: True Diff: 0 Type: TF

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

58) Written in scientific notation, 0.000 000 33 is

58)

A) 3.3 × 10⁻⁷.

B) 3.3×10^{-8} .

C) 3.3.

D) 3.3×10^{7} .

E) 3.3×10^8 .

Answer: A

Diff: 0 Type: MC

1)	C Diff: 0 Topic:	Page Ref: 1.1
٥)		
2)	FALSE Diff: 0 Topic:	Page Ref: 1.4
21	FALSE	
3)	Diff: 0 Topic:	Page Ref: 1.2
4)	E	
·	Diff: 0 Topic:	Page Ref: 1.1
5)	В	
	Diff: 0 Topic:	Page Ref: 1.1
6)		
	Diff: 0 Topic:	Page Ref: 1.1
7)	TRUE	
	Diff: 0 Topic:	Page Ref: 1.3
٥)		
8)	TRUE Diff: 0 Topic:	Page Ref: 1.4
9)		
")	Diff: 0 Topic:	Page Ref: 1.1
10)	FALSE	
·	Diff: 0 Topic:	Page Ref: 1.3
11)	80	
	Diff: 0 Topic:	Page Ref: 1.2
12)	calcium o	arbonate
	Diff: 0 Topic:	Page Ref: 1.1
13)	С	
	Diff: 0 Topic:	Page Ref: 1.1
14)	5.0×10^{-8}	3
,		Page Ref: 1.4
15)	E	
•		Page Ref: 1.1
16)	prostagla	ndins
•	Diff: 0 Topic:	Page Ref: 1.1

17)	TRUE Diff: 0 Topic:	Page Ref: 1.4
18)		Page Ref: 1.1
19)	FALSE Diff: 0 Topic:	Page Ref: 1.1
20)	aluminur	m Page Ref: 1.1
	Topic:	rage Kei. I.I
21)	TRUE Diff: 0 Topic:	Page Ref: 1.4
22)	TRUE Diff: 0 Topic:	Page Ref: 1.2
23)	FALSE Diff: 0 Topic:	Page Ref: 1.4
24)	•	servations
24)		Page Ref: 1.2
25)	TRUE Diff: 0 Topic:	Page Ref: 1.3
26)		Page Ref: 1.1
27)	C Diff: 0 Topic:	Page Ref: 1.1
28)	B Diff: 0 Topic:	Page Ref: 1.1
29)	FALSE Diff: 0 Topic:	Page Ref: 1.1
30)		Page Ref: 1.1
31)	•	Page Ref: 1.1
32)	FALSE Diff: 0 Topic:	Page Ref: 1.2

33)	B Diff: 0 Topic:	Page	Ref:	1.1
34)	A Diff: 0 Topic:	Page	Ref:	1.1
35)	3.51 × 10 ¹ Diff: 0 Topic:	I1 Page	Ref:	1.4
36)	FALSE	Page	Ref:	1.4
37)	Α	Page	Ref:	1.1
38)	chemical	Page	Ref:	1.1
39)	form a hy Diff: 0 Topic:	/poth Page		1.2
40)	FALSE	Page	Ref:	1.4
41)	С	Page	Ref:	1.1
	•	,		
42)	5.207 × 10 Diff: 0 Topic:	Page	Ref:	1.4
43)		Page	Ref:	1.1
44)	FALSE Diff: 0 Topic:	Page	Ref:	1.3
45)		Page	Ref:	1.1
46)		Page	Ref:	1.1
47)		Page	Ref:	1.1
48)		Page	Ref:	1.1

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49) chemical
    Diff: 0
              Page Ref: 1.1
    Topic:
50) 8.60 \times 10^{-4}
    Diff: 0
              Page Ref: 1.4
    Topic:
51) tenths
    Diff: 0
              Page Ref: 1.2
    Topic:
52) B
    Diff: 0
              Page Ref: 1.1
    Topic:
53) B
    Diff: 0
              Page Ref: 1.1
   Topic:
54) TRUE
    Diff: 0
              Page Ref: 1.4
    Topic:
55) B
    Diff: 0
              Page Ref: 1.1
    Topic:
56) D
    Diff: 0
              Page Ref: 1.1
   Topic:
57) FALSE
              Page Ref: 1.2
    Diff: 0
    Topic:
58) A
    Diff: 0
              Page Ref: 1.1
    Topic:
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