A.	Multiple Choice	Type Questions		
Q.1	The additive identi	ty of integers is	В.	Short Answe
C	(a) –1	(B) 1	Q.11	Evaluate the fo
	(C) 0	(D) none of these	(i)	(-40) ÷ 10
0.1	TI 11 4 4	, .	(ii)	$60 \div (-6)$
Q.2	The smallest negat	$(\mathbf{P}) = 100$	(iii) (-49) ÷ (-7)
	$(\mathbf{A}) 0$	$(\mathbf{B}) = 100$	(iv) (-79) ÷ 79
	(C) = 1	(D) none of these	(v)	$13 \div [(-4) + 3]$
Q.3	The greatest positiv	ve integer is	(vi) 0 ÷ (-14)
	(A) 0	(B) 100	(vi	i) (- 41) ÷ [(- 40
	(C) 999	(D) none of these	(vi	ii) [(- 48) ÷ 12] ·
04	The integer which	is its own additive inverse is	(ix)) Is $[(-7) + (6)] =$
۳.9	(A) 0	(B) -1	0.12	Write down a r
	(C) +1	(D) none of these	(i)	sum is -7
	(\mathbf{C})	(E) none of these	(iii) sum is 0
Q.5	The value of $5(10 - 10)$	– 9) is		
	(A) 5	(B) $5 \times 10 - 5 \times 9$	Q.13	Write the value
	(C) (A) and (B)	(D) none of these	(i)	+22
0.6	The absolute value	of –6 is	(ii)	-8
2	(A) 6	(B) -6	(iii) 18 – 8
	(C) 0	(D) none of these	(iv) - 5 - 4
			(v)	- 3-2
Q. 7	If $4 + (-7) = (-7)$	+ 4, this property of integers is	0.14	Arrange the fol
	called		2.11	(i) $= 20, 13, 4$
	(A) Closure	(B) Commutative		(i) $20, 13, 4,$ (ii) $+30, -2, 0$
	(C) Associative	(D) None of these		(11) + 50, 2, 0,
Q.8	If $[-7 + (-8)] + 9 =$	= -7 + [(-8) + 9], this property	Q.15	Which tempera
	is called			(i) 40° C or -4
	(A) Closure	(B) Commutative		(iii) $-2^{\circ}C$ or $-$
	(C) Associative	(D) None of these	0.1(A 41-
0.9	The sum of two i	ntegers is also an integer this	Q.10	A water talk
Q.)	property of integer	s is called		water level is a
	(A) Closure	(B) Commutative		(i) He jumps
	(C) Associative	(D) None of these		(I) The Jumps
	(-)	(_)		many jum
Q.10	If a and b are integ	ers, then $a \div b$		many jum
	(A) may or may no	ot be an integer		(ii) After drinl
	(B) always an inte	ger		this he im
	(C) never be an int	teger		uno ne ju
	(D) none of these			

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EXERCISE # 1

B.	Short Answer Type Questions
Q.11	Evaluate the following :
(i)	(-40) ÷ 10
(ii)) 60 ÷ (-6)
(iii	i) (-49) ÷ (-7)
(iv	$(-79) \div 79$
(v)	$13 \div [(-4) + 3]$
(vi	$0 0 \div (-14)$
(V1	1) $(-41) \div [(-40) + (-1)]$
(V1	11) $[(-48) \div 12] \div 4$
(1X	[-7] + [-7] + [-3] + 2]?
Q.12	Write down a pair of integers whose :
(i)	sum is – 7 (ii) difference is –10
(iii	i) sum is 0
0.13	Write the value of
(i)	
(i) (ii	-8
(ii)	0 18 - 8
(iv	(1) - 5 - 4
(v)	- 3-2
Q.14	Arrange the following integers in ascending order
	(i) - 20, 13, 4, 0, -5, +5
	(ii) +30, -2, 0, -6, -20, 8
0.15	Which temperature is higher ?
C	(i) 40° C or -40° C (ii) -18° C or 12° C
	(iii) -2° C or -4° C (iv) 17° C or 27° C
Q.16	A water tank has steps inside it. A monkey is
	sitting on the toppest step (i.e., the first step). The
	water level is at the ninth step.
	(1) He jumps 3 steps down and then jumps 2
	steps up. If he continues in this way, in how
	many jumps will he reach the water level
	(ii) After drinking water be wants to go back for
	this he jumps 4 steps up and then jumps
	this he jumps 4 steps up and then jumps 2

steps down in every move. In how many jumps will he reach back the top step ?

Q.17 Match column A with column B

	Column A	Column B
(i)	-7	(a) Distributive
		property
(ii)	$\mathbf{x} \times 1 = 1 \times \mathbf{x} = \mathbf{x}$	(b) 7
(iii)	$\mathbf{x} \times (\mathbf{y} + \mathbf{z})$	(c) Multiplicative
	$= x \times y + x \times z$	identity
(iv)	$\mathbf{x} \div 0$	(d) 20
(v)	$-2 \times (-7 - 3)$	(e) Not defined
(vi)	$-31 \times 0 \times (-1) \times 151$	(f) Commutative
		Property
(vii)	$a \times b = b \times a$	(g) Zero

Q.18 Match column A with column B

	Column A	Column B
(i)	$-a \times b = b \times (-a)$	(a) 1
(ii)	[6+4]+(-3)	(b) 0 is additive
	= 6 + [4 + (-3)]	identity of
		integers
(iii)	-9-(-19)	(c) Commutative
		property
(iv)	0 + 5 = 5 + 0 = 5	(d) Associative
		property
(v)	$(-709) \div (+709)$	(e) 10
(vi)	$(-1)^6$	(f) –1

- Q.19 Verify and name the property used : (i) $-110 \times (-237) = (-237) \times (-110)$ (ii) $(-35 \times 4) \times (-152) = -35 \times [4 \times (-152)]$
- Q.20 Verify and name the property used : (i) $-117 \times 251 + (-117) \times 249$ (ii) $156 \times 273 - 156 \times (-73)$

C. Long Answer Type Questions

- Q.21 Verify that: $a \div (b + c) \neq (a \div b) + (a \div c)$, if a = 12, b = -4, c = 2.
- Q.22 The temperature at 12 noon was 10°C above zero. At what time the temperature will be 8°C below 0°C, if it decreases at the rate of 2°C ? If it decreases at the rate of 2°C per hour till midnight, what would be the temperature at mid-night ?
- Q.23 In a class test (+3) marks are given for every correct answer and (-2) marks are given for every incorrect answer and no marks for not attempting any questions.
 - (i) Ram scored 20 marks. If he has got 12 correct answers, how many questions has he attempted incorrectly?

(ii) Mohan scores -5 marks in the test though he has written 7 correct answers. How many questions has he attempted incorrectly ?

- Q.24 A boy has j 350 in his bank account. He deposits j 40 everyday for 10 days. What will be the amount in his account at the end of 10 days?
- Q.25 In a class test containing 10 questions, 5 marks are answered for every correct answer and (-2) marks are awarded for every incorrect answer and 0 for questions not attempted .
 - (i) Mohan gets four correct and six incorrect answers. What is his score ?
 - (ii) Reshma gets five correct answer and five incorrect answers. What is her score ?
 - (iii) Heena gets two correct and five incorrect answers out of seven questions she attempts. What is her score ?
- Q.26 A cement company earns a profit of j 11 per bag of white cement sold out a loss of j 6 per bag of grey cement sold.
 - (i) The company sells 4,000 bags of white cement and 8,000 bags of grey cement in a month. What is its profit or loss ?
 - (ii) What is the number of white cement bags it must sell to have neither profit nor loss, if the number of grey bags sold is 1,100 bags.

Q.27 Find

- (i) a pair of negative integers whose difference gives 6.
- (ii) a pair of negative integers whose difference gives -9.
- (iii) a negative integer and a positive integer whose difference is -15.
- (iv) a negative integer and a positive integer whose difference is 16.
- Q.28 An elevator descends into a mineshaft at the rate of 7m/min. If the descent starts from 15 m above the ground level, how long will it take to reach 475 m ?
- **Q.29** Find the value of :

 $72 - [3 + \{18 - \overline{19 - 2}\}] \div \{1 + 5 \text{ of } 7 - (3 - 1)\}$

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Q.30 Find the value of :

 $5 \div [5 + \{5 - (5 + \overline{5 - 5})\}]$

ANSWER KEY

1. 0	2. D	3. D	4. A	5. C	6. A	7. B	8. C	9. A	10. A	
11.	(i) -4 (ii)) –10	(iii) 7	(iv) -1	(v) –13	(vi) 0	(vii) 1	(viii) –1	(ix) yes	
12.	(i) −1, −6	or –9, 2	(ii) –11	, –1 or 35	5, -45	(iii) –1,	1 or 20,	-20		
13.	(i) 22	(ii) 8	(iii) 10	(iv) 9	(v) –1					
14.	(i) –20, –4	5, 0, 4, 5,	13	(ii) –20	, -6, -2, 0	0, 8, 30				
15.	(i) 40°C	(ii) 12º	C (iii) –2°	PC	(iv) 27°	С				
16.	(i) 11 time	es	(ii) 5 tii	mes						
17.	(i) b	(ii) c	(iii) a	(iv) e	(v) d	(vi) g	(vii) f			
18.	(i) c	(ii) d	(iii) e	(iv) b	(v) f	(vi) a				
19.	(i) Comm	utative pr	operty of	multiplic	ation.	(ii) Ass	ociative p	property c	of multiplication.	
20.	(i) Distrib (ii) Distrib	utive prop outive pro	perty of m perty of r	ultiplicat nultiplica	ion over a tion over	addition subtracti	ion			
22.	9 pm, –14	°C 23. (i)	8	(ii) 13						
24.	j- 750		25. (i) 8	3 marks	(ii) 15 r	narks	(iii) 0 m	nark		
26.	(i) Loss of	fj- 4,000)	(ii) 600	bags					
27.	(i) -3, -9	(ii) –10), —1	(iii) –8,	7	(iv) 1, -	-15			
28.	1 hr 10 m	in.								
29.	2									
30.	1									

А.	Multiple Choice Typ	e Questions	Q.15	Additive inverse of zero is 1.
Q.1	Every integer is also a		C.	Fill in the Blanks Type Questions
	(A) natural number (C) (A) and (B) both	(B) whole number (D) none of these	Q.16	The product of 200 negative integers is integer.
Q.2	When 0 is multiplied 1 their product will be	by any negative integer,	Q.17	The product of 999 negative and 999 positivi integers is
	(A) a positive integer (B) a negative integer		Q.18	The absolute value of $-35 + 25 = \dots$
	(C) zero(D) none of these		Q.19	Which temperature is greater -110°C or 110°C
Q.3	The sum of two integers (A) a natural number (C) an integer	is always (B) a whole number (D) none of these	Q.20	At noon the temperature was 30°C. One hour late it was 6°C lower. The temperature after an hour was
Q.4	The multiplicative identi	ty of integers is	Q.21	The additive inverse of 0 is
	(A) 0 (C) -1	(B) +1(D) none of these	Q.22	The product of 58 negative integers is a
Q.5	Every positive integer is (A) zero	greater than	Q.23	By which integer – (700) must be divided to g the quotient 700 ?
	(B) every negative integer(C) both (A) and (B)(D) none of these	er	Q.24	When we divide a negative integer by a positive integer, the result so obtained is
B.	True/False Type Que	estions	Q.25	A negative integer is always than i additive inverse.
Q.6	The greatest positive inte	eger is 100.	Q.26	The value of 28 – 18 is
Q.7	The smallest negative int	teger is not defined.	Q.27	The smallest negative integer is
Q.8	Zero is positive integer.		Q.28	$(-111) \div \dots = 1$
Q.9	Every negative integer	is greater than every	Q.29	$8 + (9 + 7) = (8 + 9) + \dots$
	positive integer.		Q.30	Additive inverse of negative integer is always.
Q.10	Zero is less than every po	ositive integer.	Q.31	Julius Caesar was born in 100 B.C. and was 66 yea
Q.11	Division in integers is clo	osed.		old when he died. In which year did he die?
Q.12	On dividing any intege always zero.	er by zero, the result is	Q.32	A certain freezing process requires that roo temperature be lowered from 43°C at the rate 8°C every hour. What will be the roo
Q.13	18 - -12 is equal to 6.			temperature 6 hours after the process begins ?
Q.14	−50 is equal to −50.			

EXERCISE # 2

		integer.
han	Q.23	By which integer – (700) must be divided to get the quotient 700 ?
	Q.24	When we divide a negative integer by a positive integer, the result so obtained is
	Q.25	A negative integer is always than its additive inverse.
00.	Q.26	The value of 28 – 18 is
ot defined.	Q.27	The smallest negative integer is
	Q.28	(-111) ÷ = 1
ater than every	Q.29	$8 + (9 + 7) = (8 + 9) + \dots$
	Q.30	Additive inverse of negative integer is always.
teger.	Q.31	Julius Caesar was born in 100 B.C. and was 66 years old when he died. In which year did he die?
ro, the result is	Q.32	A certain freezing process requires that room temperature be lowered from 43°C at the rate of 8°C every hour. What will be the room temperature 6 hours after the process begins ?
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	Α	NSWER KE	EY	
1. D	2. C	3. C	4. B	5. C
6. F	7. T	8. F	9. F	10. T
11. F	12. F	13. T	14. F	15. F
16. positive	17. negative	18. 10	19. 110°C	20. 24°C
21. 0	22. positive	23. –1	24. negative integer	25. less
26. 10	27. does not exist	2 8. –111	29. 7	
30. positive integer	31. 34 B.C.	32. –5°C	33. 8 pm	

Q.33 The temperature at 12 noon was 15°C above zero. If it decreases at the rate of 3°C per hour until

midnight, at what time would the temperature be 9° C below zero ?

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