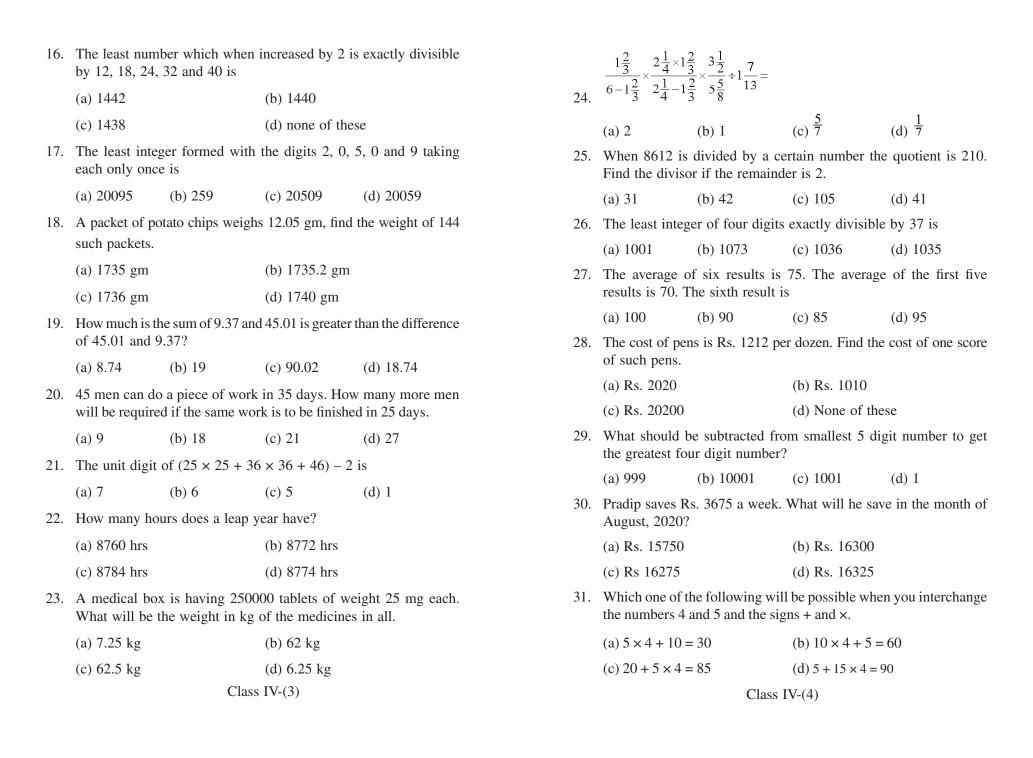
IV(EM) ADTM

CENTRE FOR PEDAGOGICAL STUDIES IN MATHEMATICS (CPSM) ACHIEVEMENT-CUM-DIAGNOSTIC TEST IN MATHEMATICS-2022

INSTRUCTION: Write your Name, Class, Roll No. etc. in the answersheet. Select the correct answer out of (a), (b), (c) and (d) of particular item and blaken the specific rectangle ■ with H.B. pencil denoting the correct answer. For example, if (c) is the correct answer to Q. No. X: blacken like this: Q. No. X: □□■□ Rough work is to be done on separate paper. Marks will be deducted for wrong answer. Don't waste time for answering a question which appears difficult to you, better try the next question.							
1.	The angle show	wn in the capital	letter V is				
	(a) obtuse ang	le	(b) straight ang	gle			
	(c) right angle		(d) acute angle				
2.	Number of lin	e segments in M	<i>IN</i> is				
	(a) 10	(b) 6	(c) 4	(d) 7			
3.	A match box is a rectangular parallelopiped. All the faces of th solid are						
	(a) squares	(b) rectangles	(c) triangles	(d) trapeziums			
4.	The geometrical shape of a one rupee coin is a						
	(a) circle	(b) cube	(c) cylinder	(d) sphere			
5.	The two diagonals of a quadrilateral are unequal, the quadrilateral may be a						
	(a) square		(b) rhombus				
	(c) rectangle		(d) isosceles tra	apezium			
5.	Each page of your book is a						
	(a) rectangle		(b) square				
	(c) parallelogr	am	(d) rhombus				
	Class IV-(1)						

7.	Four points are given on a sheet of paper such that no three of which are in a straight line. The maximum number of straight lines that can be drawn using these points is								
	(a) 4	(b) 5	(c) 6	(d) 3					
8.	Number of edg	ges of a triangula	ar pyramid is	r pyramid is					
	(a) 4	(b) 5	(c) 6	(d) 9					
9.	A prism has eig	prism has eight faces, the base of the prism is a							
	(a) quadrilatera	al	(b) pentagon						
	(c) octagon		(d) hexagon						
10.	All the angles angle of this q	-	al are equal, the	measure of each					
	(a) 90°		(b) 45°						
	(c) 60°		(d) none of these						
11.	Which one of	ich one of the following expression is not equal to 2?							
	(a) $2 + 2 - 2 \times$: 2 ÷ 2	(b) $(2 + 2) - (2 \times 2) \div 2$						
	(c) $2 + (2 - 2)$	$\times 2 \div 2$	(d) $(2 + 2 - 2 \times 2) \div 2$						
12.	The unit digit	of $36 \times 36 \times 36$	$-25 \times 25 \times 25$	is					
	(a) 1	(b) 6	(c) 5	(d) 3					
13.	The average of 15, 0, 7, 12, 0 and 8 is								
	(a) 8.4	(b) 7	(c) 8	(d) $10^{\frac{2}{5}}$					
14.	The eighth term of the series $\frac{1}{3}, \frac{1}{7}, \frac{1}{11}, \dots$ is								
	(a) $\frac{1}{27}$	(b) $\frac{1}{29}$	(c) $\frac{1}{31}$	(d) $\frac{1}{33}$					
15.	The greatest no remainder in e		vides 3784 and 9	9157 leaving 3 as					
	(a) 202	(b) 199	(c) 196	(d) 189					

Class IV-(2)



32	$\frac{5}{6} \div \frac{3}{8}$ of $\frac{5}{9} \div \frac{4}{11}$	$\times \frac{1}{11} =$				(a) Monday		(b) Sunday	
32.	(a) 1	(b) 2	(c) 4	(d) 5		(c) Saturday		(d) Wednesd	ay
33.	Find the difference between the largest and the smallest numbers			42.	The maximum number of students in which 175 bananas and 105				
	that can be formed by using each of the digits 7, 3, 0, 9, 5, 4 only				oranges can be equally divided is				
	once.	, ,		• • • • • • •		(a) 5	(b) 7	(c) 35	(d) 15
	(a) 940851	(b) 671851	(c) 70851	(d) 670851	43.	$\frac{1}{3} \div 0.25 + 0.$.75 of $\frac{1}{12}$ + 0.5 -	$+\frac{5}{48} =$	
34.	The sixth term	of the series 62.	5, 5, 125, 25, 25,	, 5 is					
	(a) 5	(b) 25	(c) 125	(d) 625		(a) 1	(b) $\frac{1}{2}$	(c) 2	(d) 4
35.	35. The product $0.1 \times 0.2 \times 0.3 \times 0.4 \times 0.5 =$					Govind is 48 years old. Now he is twice as old as his son Prem. How old was Prem 7 years ago.			
	(a) 0.00012	(b) 0.0012	(c) 0.0000012	(d) 0.12		(a) 16 yrs	(b) 13 yrs	(c) 18 yrs	(d) 17 yrs
36.	The reciprocal	of $1^{\frac{1}{2}}$ is			45.	The perimete	r of a rectangle	is 180 m; if the	e length is twice the
	2 1	breadth then the length is							
27	(a) 2	. ,	. ,	(d) 3		(a) 120 m	(b) 60 m	(c) 30 m	(d) 80 m
37.	of gravels and	one shouvelful		and, 2 shouvelfuls houvelfuls are put the gravels?	46.	The number of that prism is	of edges of a pri	sm is 18; the nu	mber of surfaces of
	(a) 20	(b) 16	(c) 32	(d) 8		(a) 12	(b) 9	(c) 7	(d) 8
38.	8. The average age of a class of 18 students is 11 years. Two more students whose average age is 14 years join them. What is the new average age of the class.				47. There are 12 dozen of apples in a basket, two dozen are adlater, 10 apples got spoilt and are removed. The remaining transferred equally into two buskets. How many apples are the in each basket?				
	(a) 11 yrs	(b) 11.6 yrs	(c) 11.5 yrs	(d) 11.3 yrs		(a) 158	(b) 84	(c) 89	(d) 79
39.	The perimeter of a square is 180 m. The area of the square is				48	The product of the successor and the predecessor of a number i			
	(a) 2000 m^2	(b) 2025 m^2	(c) 2225 m^2	(d) 2005 m^2		195; the num		and the product	
40.		_	45 children such the number of gir	that each by got		(a) 13		(b) 14	
	(a) 15	(b) 30	(c) 20	(d) 10		(c) 15		(d) none of t	
41.	•	is a wednesday	then the 1st day	of March in a leap	49.	A car runs 58 18 hours 30 r		the distance co	overed by the car in
	year is	Class	IV-(5)				Clas	s IV-(6)	

(a)	1044	km
(a)	1044	KIII

(b) 1073 km

(c) 1102 km

(d) 1063 km

- 50. Buni by mistake multiplied 2978×978 instead of 2928×978 . By how much is her answer too great?
 - (a) 48900
- (b) 4890
- (c) 9780
- (d) 58680
- 51. The smallest even number of 7 digits is
 - (a) 1000002

(b) 1000000

(c) 1111110

(d) 100002

- 52. The product of the greatest and the smallest number consisting of all the digits 1, 0, 4 and 5 only once is
 - (a) 5653450

(b) 38845

(c) 565345

- (d) 388450
- 53. The sixth term of the series $\frac{1}{3}$, $\frac{1}{5}$, $\frac{1}{7}$, $\frac{1}{9}$,... is
 - (a) $\frac{1}{11}$ (b) $\frac{1}{13}$ (c) $\frac{1}{19}$
- (d) $\frac{1}{15}$
- 54. The greatest among $\frac{3}{4}$, $\frac{7}{10}$, $\frac{4}{5}$ and $\frac{1}{2}$ is
- (b) $\frac{7}{10}$ (c) $\frac{4}{5}$
- 55. Hemantika spent Rs. 140 on Monday, Rs. 530 on Tuesday, Rs. 98 on Wednesday and on Thursday she did not spend any amount. Find her average expenses for these four days.
 - (a) Rs. 256
- (b) Rs. 192
- (c) Rs. 190
- (d) Rs. 225
- 56. There are provisions for 84 men for 65 days. How many men should go so that the provision may last for 78 days.
 - (a) 35
- (b) 28
- (c) 70
- (d) 14
- 57. Kajal prepares one table cover from 0.29 metre cloth. How many table covers can she prepare from 52.2 metres cloth?

Class IV-(7)

- (a) 1800
- (b) 180
- (c) 360
- (d) none of these
- 58. The least among $\frac{3}{4}$, $\frac{1}{2}$, $\frac{4}{5}$ and $\frac{7}{10}$ is
- (b) $\frac{7}{10}$
- (d) $\frac{1}{2}$
- 59. The LCM of 5 cm, 10 cm, 12 cm, 15 cm and 24 cm is
 - (a) 120 cm
- (b) 12 m
- (c) 60 cm
- (d) 1200 cm
- 60. This is a magic square. If the total of each row and of each column is the same, the values of a, b, c and d are

(a)
$$a = 27$$
, $b = 1$, $c = 3$, $d = 8$

(b)
$$a = 27$$
, $b = 13$, $c = 12$, $d = 18$

(c)
$$a = 12$$
, $b = 3$, $c = 27$, $d = 18$

(d)	a	=	27.	b	=	12,	c	=	3.	d	=	18	ζ
(4)	u	_	<i>- '</i> ,	$\boldsymbol{\nu}$	_	12,	·	_	υ,	α	_	1	,

11	9	21
а	b	2
С	20	d

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