Roll Number			
	DAV PUBLIC S	CHOOLS, ODISH	IA ZONE
	PERIODI	C TEST-II (2023-2	24)
Please check that this quCheck that this questionWrite down the Serial N	estion paper contains 2 paper contains 20 ques umber of the question i	printed pages. tions. in the left side of the m	argin before attempting it.
	SUBJECT:	STD VII MATHEMATICS	I
Time Allowed: 1hr 30mins General Instructions: -			Maximum Marks : 40
This question paper contain Sec – A contains 5 question Sec – B contains 5 question Sec – C contains 3 question Sec – D contains 4 question Sec – E contains 3 question	ns five sections: Section A ns of 1 mark each. ns of 1 mark each ns of 2 marks each. ns of 3 marks each. ns of 4 marks each. SECT	A, B, C, D and E. ION –A [1 × 5 = 5]	
Choose the appropriate	answer from the give	n options:	
1. The standard form for	0.000047 is:	n options.	
(a) 47×10^4	(b) 47×10^{-4}	(c) 4.7×10^5	(d) 4.7×10^{-5}
2. If $6^x = 36 \times 6^y$, then the value of x-y is equal to			
(a) 2	(b) 0	(c) 3	(d)1
3. The coefficient of x i	n the product of $(x+5)$	(x+4) is	
(a) 2	(b) 9	(c) 3	(d) 4
4. If $\triangle ABC \cong \triangle PQR$, w	(h) DC OD	s not true:	
(a) $\angle A = \angle P$ 5 Nome of the angle in	(0) BC = QR	(c) $\angle B = \angle K$	$(\mathbf{d}) \mathbf{A}\mathbf{C} = \mathbf{P}\mathbf{K}$
5. Name of the angle in $(a) \angle DFF$	(b) Z FFD	$(c) \angle FDF$	(d) None of these
(u) ZDD			
Fill in the blanks:	<u>SE</u>	$CHON - B 1 \times 5 = 5$	<u>1</u>
$6 16^{15} \div 16^{19} - 16^{10}$			
7. $\Delta XYZ \cong \Delta$ DEF. If \angle	$X = 45^{\circ}$ and $\angle Y = 60^{\circ}$.	the measure of $\angle F$ is	
8. Two circles are congr	uent if they have same	· · · ·	
Answer the followin	g questions:		
9. Find the value of $\frac{2^{200}}{2}$	$\frac{00}{2^{1998}} - \frac{2^{1998}}{2^{1998}}$.		

10. In $\triangle ABC$, AB = 3 cm, $\angle B = 90^{\circ}$ and in $\triangle PQR$, PQ = 3 cm, $\angle Q = 90^{\circ}$, Write down the additional information required to make the two triangles congruent by RHS congruence condition.

SECTION-C $[2 \times 3 = 6]$

11.Simplify: $\left(\frac{1}{2}\right)^{-3} + \left(\frac{1}{3}\right)^{-2} + \left(\frac{1}{4}\right)^{-1}$.

- 12. Find the product of $(2pq q^2)$ and $(3p^2 + 4q)$.
- 13.In the given figure PS = RS and PQ = RQ.
 - (i) Is $\Delta PQS \cong \Delta RQS$?

(ii) State the three pairs of matching parts you have used to answer (i).

SECTION – D [3 × 4=12]

- 14. If $a = \left(\frac{3}{2}\right)^{-2} \div \left(\frac{7}{5}\right)^{0}$, find the value of a^{3} . 15. Find the product of $2x^{2}y \times \frac{3}{4}xy^{2}$ and evaluate it for x = 1 and y = -1.
- 16. In the given figure, AB = AC, BD = EC, prove that $\triangle ABE \cong \triangle ACD$.

17. In the given figure, ABC is an isosceles triangle in which AB = AC. Also, D is a point such that BD = CD. Show that AD bisects $\angle A$ and $\angle D$.



- 18. (i) Express $(1.6 \times 10^9) \times (5.0 \times 10^{-3})$ in the form of k × 10ⁿ. (ii) Evaluate : $[4^2 - 3^2] \div \left(\frac{1}{7}\right)^2$
- 19. Simplify the following and verify the results for the given values. $(a - b)(a^2 + ab + b^2)$; a = 2 and b = -3.
- 20. In the given figure, ΔPQR and ΔSQR are two triangles on a common base QR such that PQ = SR and PR = SQ.

(i) Is $\triangle PSQ \cong \triangle SPR$?

- (ii) If yes, mention the condition of congruency.
- (iii) State the three pairs of corresponding parts.
- (iv) If \angle SRP = 40° and \angle QPS = 110° then find \angle PSQ.



D





С