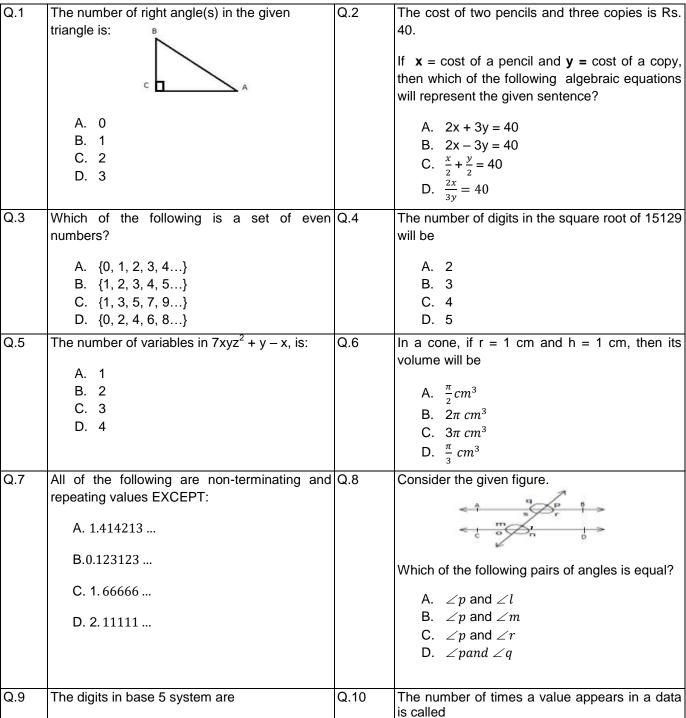
MODEL PAPER MATHEMATICS (ENGLISH)

Student Name:			Roll No						
Section A: Multiple Choice Questions Marks: 40 Time: 60 minutes					<u>l</u>		<u> </u>		
جَرْجَالِا Q.2 Choose the correct sentence. 1.		1. A (ζήιε 3 © Φ	مدایات برسوال کے جارمکنے جواب درہے گئے ہیں۔ان جس سے صرف کی جواب درست مرسوال کے جارمکنے جواب درست					

Q.2.5		B C D B C D B C D Complete 2 of Jones 2 o	الله مري - والدير بي يرجوابات كفائل نداكا مي - 2 جواب من ايك عند ياده دائر عام في حجواب فلاتسور ووكا - 3 سوالدي بي يرسوال نبر محلاً 1 , 3 , 4 , 3 , 2 اوراس كي جواب محال مر معلاً 4 , 0 , 0 , 0 كو فوت كري اور اس كي بعد جواني يرب يرأى موال فمبر
Q.1	The number of right angle(s) in the given triangle is:	Q.2	The cost of two pencils and three copies is Rs. 40. If $\mathbf{x} = \cos t$ of a pencil and $\mathbf{y} = \cos t$ of a copy, then which of the following algebraic equations will represent the given sentence?



A. frequency.

D. range.

B. class interval.C. class boundary.

A. 0, 1, 2, 3, 4, 5

B. 0, 1, 2, 3, 4 C. 1, 23, 4

D. 1, 2, 3, 4, 5

Q.11	In the figure given below, ∠2 and ∠6 are	Q.12	For a given parallelogram CDEF, which of the following is true?
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		C D E
	A. vertically opposite angles. B. alternate angles.		A. FC≅FE B. FC≅CD
	C. interior angles of the same sides of		C. FC≅FD
	\overrightarrow{MN} . D. corresponding angles.		D. <i>FC≅DE</i>
Q.13	Sec 45 ⁰ is equal to	Q.14	Consider the given figure.
	A. $\frac{1}{\sqrt{2}}$ B. $\sqrt{2}$		å B
	C. $\frac{2}{\sqrt{3}}$ D. $\frac{\sqrt{3}}{2}$		Which of the following statements is correct according to Pythagoras theorem?
			A. $ \overline{AB} ^2 = \overline{AC} ^2 + \overline{BC} ^2$ B. $ \overline{AC} ^2 = \overline{AB} ^2 + \overline{BC} ^2$ C. $ \overline{BC} ^2 = \overline{AC} ^2 + \overline{AB} ^2$ D. $ \overline{AB} ^2 = \overline{AC} ^2 = \overline{BC} ^2$
Q.15	One and only one line passes through two	Q.16	In algebraic expression y ³ + 8, y is a:
	distinct points. The given statement is		A. Constant
	A. an axiom.		B. Variable
	B. a postulate. C. a theorem.		C. Coefficient
	D. a corollary.		D. Exponent
Q.17	The equivalent of (10) ₈ in base 10 number system will be	Q.18	All of the following are perfect square EXCEPT:
	A. 8		A. 144 B. 169
	B. 10		C. 196
	C. 16 D. 20		D. 255
Q.19	5,5,5,6,5,7,6, 8, 7	Q.20	The factorization of 9a ² - 12ab + 4b ² is equal to
	Which of the following values has the lowest		A. (9a + 4b) (9a - 4b)
	frequency in the given data?		B. (9a - 4b) (9a - 4b) C. (3a - 2b) (3a + 2b)
	A. 8		D. (3a - 2b) (3a - 2b)
	B. 7 C. 6		
	D. 5		
Q.21	Which of the following is a hexagon?	Q.22	2
	A. (5
			In the given triang x which of the following trigonometric ratios Je used to calculate the
	В.		value of x?
			A. Tan θ
	c		B. Sin θ
	D.		C. Cosecθ
			D. Cos θ
•			

Q.23	Consider the given figure.	Q.24	If X = {4, 6, 8, 9, 10, 12, 14, 15} then one of the
			subsets of X will be
	(••••)		A. {4, 5, 6}
			B. {8, 9, 10}
			C. {12, 13, 14}
	Which of the following is true?		D. {9, 10, 11}
	A. $m\overline{OA} > m\overline{OB}$		
	B. $m\overline{OA} = m\overline{OB}$		
	C. $m\overline{OA} < m\overline{OB}$		
	D. $m\overline{OA} \ge m\overline{OB}$		
Q.25	Which of the following represents simultaneous	Q.26	In \triangle ABC, the trigonometric ratio $\frac{a}{b}$ is equal to
	linear equations?		В
	A. $3x + 5y = 5$		/ľ
	x + 2y = 1		
	·		· a
	B. $\frac{3}{x} + \frac{5}{y} = 5$		
	$\frac{1}{x} + \frac{2}{y} = 1$		b c A. Cos
			θ
	C. $3x^2 + 5y^2 = 5$ x + 2y = 1		B. Sec θ
			C. Tan θ
	D. $3x^{-1} + 5y^{-1} = 5$		D. Cot θ
	x + 2y = 1		
Q.27	If $X = \{a, b\}$ and $Y = \{a, b, c\}$ then	Q.28	The power set of $A = \{, +\}$ will be
	A. X ⊂ Y		A. {Ø}
	B. Y⊂X		B. {{—}}, {+}}
	C. X⊃Y		C. {{Ø, {+}, {—}}}
	D. X ⊇ Y		D. {Ø, {—}, {+}, {+, —}}
Q.29	In the given figure, \overline{AB} represents	Q.30	The degree of the given polynomial
			$3x^2y^3 + x^2y + 4yz$ will be
	A (•) o		Λ 6
			A. 6
	A. chord.		B. 5
	B. diameter.		C. 4
	C. secant. D. tangent.		D. 3
Q.31	Which of the following is a polynomial?	Q.32	Consider the given figure
Q.51	William of the following is a polynomial:	Q.52	Consider the given figure
	A. $\sqrt{x} + by$		\wedge
	B. x + by		0t
	C. x ⁻¹ + by ⁻¹		./ \.
	D. $\frac{1}{x} + by$		*
	$\int_{x}^{\infty} \int_{x}^{\infty} \int_{x$		
			If $\overline{AB} \parallel \overline{DE}$ and $\overline{AD} \cong \overline{DC}$ then
			A. $\overline{CE} \cong \overline{EB}$
			B. $\overline{CE} \cong \overline{CB}$
			C. $\overline{CE} \cong \overline{AC}$
			D. $\overline{CE} \cong \overline{AB}$
L	ı	<u> </u>	

Q.33	If the sides of a triangle are 3cm, 4 cm and 5cm, then its area can be calculated by: A. $\sqrt{6(6-3)(6-4)(6-5)} cm^2$ B. $\sqrt{6(6+3)(6+4)(6+5)} cm^2$ C. $\sqrt{(6+3)(6+4)(6+5)} cm^2$ D. $\sqrt{(6-3)(6-4)(6-5)} cm^2$	Q.34	Which of the following is an irrational number? A. 0.375 B. 0.666666 C. 0.515151 D. 0.314728
Q.35	The result of $(10)_5 + (44)_5$ will be A. $(54)_5$ B. $(104)_5$ C. $(114)_5$ D. $(414)_5$	Q.36	A. B. C. D.
Q.37	4x ² - y ² is equal to A. (y + 2x) (y + 2x) B. (2x - y) (2x - y) C. (2x + y) (2x - y) D. (y - 2x) (y + 2x)	Q.38	If the market price of a wall clock is 1050 rupees and is sold for 750 rupees then discount % will be calculated as A. $\frac{1050-750}{1050}x \ 100$ B. $\frac{1050+750}{750}x \ 100$ C. $\frac{1050-750}{750}x \ 100$ D. $\frac{1050+750}{1050}x \ 100$
Q.39	If radius of a sphere is 2cm then its surface area will be $A. 4\pi cm^2$ $B. 16\pi cm^2$ $C. 32\pi cm^2$ $D. 60\pi cm^2$	Q.40	Sin $(90 - \theta)$ is equal to A. $\cos \theta$ B. $\csc \theta$ C. $-\cos \theta$ D. $-\csc \theta$

MODEL PAPE	R MATHE	MATICS (EN	IGLISH	VERSIO	N)		
Student Name		Roll No					
Section B: Constructed Response Que Marks: 60 Time: 2 hours	estions						
سے پڑھسیں۔ 3۔ سوال کاجواب دی گئی جگس پر تحسر یر	پہلے سوال کوغور.	۔جواب دیے سے	2	ری ہے۔	بدریٺ اضرو	ِسوال ڪاجواب	يات: 1-بر س
Q.1. If U={Sat, Sun, Mon, Tues, Wed} $A= \{Sat, Mon\}$ $B= \{Sun, Tues\}$ Then prove that $(A \cup B)' = A' \cap B'$						(ے۔ (6 Marks)
Q.2 . Find the square root of $\sqrt{1.44}$							(6 Marks)
i. Using division method	ii. Using	prime factor	ization r	nethod			
Q.3. Multiply $(234)_5$ by $(476)_8$ and write the	e answer ir	n decimal nu	mber sys	stem.			(6 Marks)
Q.4. Naeem bought a chair for Rs. 500 ar	nd sold it fo	r Rs. 650. Fi	nd profit	or loss p	ercentag	је.	(6 Marks)
Q.5. Divide $2x^3 - 4x^2 + 5x - 3$ by $x - 1$							(6 Marks)
Q.6. If $x - \frac{1}{x} = 4$, then find values of $x^2 +$	$\frac{1}{x^2}$ and x^4	$+\frac{1}{x^4}$					(6 Marks)
Q.7. Construct a right angled triangle PQI	R, with m∠	Q=90 ⁰ , wher	hypoter	nus=5cm	and bas	e=2 cm	•
Also write steps of construction.							(6 Marks)
Q.8. Find the surface area and volume of	a sphere, i	f its radius is	1.4 m.				(6 Marks)
Q.9.Consider the given figure.	>						(6 Marks)
Two lines \overline{DX} and \overline{AY} intersect each other	at point O						
Prove that $\angle 1 \cong \angle 3$							
Q.10. Following are the marks obtained by 73, 55, 71, 66, 66, 73, 55. Find the				g 1 st term	n examina	ations.	(6 Marks)