GRADE - VIII MODEL PAPER 2017

MATHEMATICS

Section A: Multiple Choice Questions Marks: 40 Time: 50 Minutes

		سواليه پر چه				بىرچە	جوا	
Q.2	Choo	se the correct sentence	.	1.	(A)	B	(C)	(D)
	A.	She written a letter.	+	2.	A	(B),	Ŏ.	(D)
	B.	She is write a letter.	++	3.	A	B	0	(D)
	C	She wrote a letter.	38	4.	A	B	©	(D)
	D.	She is written a letter.	. جواني	ں کے لئے فرا ہوا	اب C ہے جسم روسیاہ رنگ میں مج	2 کادرست جو منے C کا دائر	میں سوال نمبر! نمبر 2 سرسا	او پردی گئی مثال رہے میں سوال
			7					, o . .

برسوال کے چار مکنہ جوابات دیے گئے ہیں۔ان میں سے صرف ایک جواب درست ہے۔ جوابات کے لئے دیے گئے علیحدہ جوابی پرچ پر متعلقہ دائرے میں سیاہ رنگ کئیں۔ کبر ہیں ایک سے زیادہ دائر کے بحر نے سے جواب غلط انصور ہوگا۔
 جواب میں ایک سے زیادہ دائر کی جرنے سے جواب غلط انصور ہوگا۔
 سوالیہ پرچ پر سوال نمبر مثلاً 1 , 3 , 4 , 3 , 2 , 1 اوراس کے جواب میں مثلاً 4 , 5 , 5 , 1 , 1 , 1 کی سوال نمبر مثلاً 4 , 5 , 5 , 2 اوراس کے جواب کی سوال نمبر مثلاً 4 , 5 , 2 , 1 کی سوال نمبر مثلاً 4 کی سے بید جوابی پرچ پرائی سوال نمبر کے سامنے سیج جواب کا دائرہ بحریں۔

Q1.	If $A = \{a, b, c, d\}$ then the improper subset of A is	Q2.	The set of Prime Numbers in the given set is
	A. W B. $\{w\}$ C. $\{a,b,c\}$ D. $\{a,b,c,d\}$		A. {0,1,2} B. {4,6,8} C. {5,7,9} D. ^{5,7,11}
Q3.	$(A \cap B)' = \underline{\hspace{1cm}}$ A. $(A \cup B)'$ B. $A' \cup B'$ C. $A' \cup B$ D. $A \cup B'$	Q4.	The shaded region in the given Venn diagram represents A. $A \cap B$ B. $A \cap C$ C. $A \cup B \cup C$
Q5.	Which of the following is correct? A. $\frac{1}{3^3} > \frac{1}{9^3}$ B. $\frac{1}{3^3} \ge \frac{1}{9^3}$	Q6.	D. $A \cap B \cap C$ The digits in base 2 system are A. 0, 1 B. 0, 2 C. 1, 2 D. 0, 1, 2
	C. $\frac{1}{9^3} < \frac{1}{3^3}$ D. $\frac{1}{9^3} \le \frac{1}{3^3}$		

Q7.	$(13)_2 + (53)_5 =$	Q8.	Type of deposit which can be drawn on expiry of a specific period is
	A. 13 B. 15 C. 33		A. Saving Bank Deposit. B. Current Deposit. C. Fixed Deposit. D. Commercial Deposit.
00	D. 35	010	A unitton component by which a wantow
Q9.	After receiving funds an instrument is issued by the bank to the customer. It is called A. cheque. B. pay order. C. demand draft. D. credit card.	Q10.	A written agreement by which a renter can use property on rent for a specific period is called A. over draft. B. running finance. C. demand finance. D. leasing.
Q11.	Purchase price = Rs. 12 Sale price = Rs. 10 Loss = Rs. 2 Then, Loss% = A. $\frac{2}{10} \times 100$ B. $\frac{2}{12} \times 100$ C. $\frac{2}{12} \times 10$ D. $\frac{10}{12} \times 100$	Q12.	The degree of $8x^2y^3 + 4x^2y^2 + xy^2 + x^2$ is A. 5 B. 4 C. 3 D. 2
Q13.	 xyz + yz + x + 1 is A. Zero Variable Polynomial. B. One Variable Polynomial. C. Two Variable Polynomial. D. Three Variable Polynomial. 	Q14.	Which of the following polynomials has degree 3? A. $x + y + z + 1$ B. $3x + 2y + z$ C. $xy + yz + zx$ D. $xy + xyz + 1$
Q15.	$(104)^{2} =$ A. $(100)^{2} + 2(100)(16) + (4)^{2}$ B. $(100)^{2} + 2(100)(4) + (4)^{2}$ C. $(100)^{2} + 2(10)(16) + (4)^{2}$ D. $(100)^{2} + 2(10)(4) + (4)^{2}$	Q16.	Suppose Ali's age is x years and Akbar's age is y years and their age difference is 45 years. It can be expressed in the linear equation as: A. $x - y = 45$ B. $x^2 - y^2 = 45$ C. $x^3 - y^3 = 45$ D. $x^2y - y^2x = 45$

Q17.	If $x \mid y = 6$ and $x \mid y = 1$, there is a simple	Q18.	f(x+2) =2
Q17.	If $x + y = 6$ and $x - y = 4$, then x is equal	Q 10.	If $x + 2y = 3$
	to		x + y = 4
	A5		Then $y =$
	B. 5		
	C10		A1
	D. 10		B. 1
			C5 D. 5
0.10		000	
Q19.	If $3t = x$ and $3at = y$, then elimination of 't'	Q20.	A
	by substitution method gives		В ← →
			D
	A. $\frac{y}{a} = a$		In the figure A and B are
	$\frac{R}{x} - u$		G
			A. vertical lines.
	B. $\frac{x}{a} = a$		B. parallel lines.
	y		C. non-parallel lines.
	a		D. perpendicular lines.
	$C. \frac{a}{x} = y$		
	D. $\frac{x}{-1} = 1$		
	У		
Q21.	In regular hexagon each angle is equal to	Q22.	/
			b do
	A. 90°		$A \leftarrow 1/1a \rightarrow$
	в. 108^{0}		B d C
			$B \leftarrow \frac{q_1/q_2}{q_1}$
	C. 120°		/
	D. 135 ⁰		In the given figure, if $A B$, then
			A. ∠a = ∠b
			B. ∠ <i>c</i> = ∠d
			C. $\angle a = \angle c$
			D. ∠a = ∠d
Q23.	All of them are polygon EXCEPT :	Q24.	ABCD is a parallelogram.
	A. Triangle		2/
	B. Rectangle C. Circle		
	D. Square		4 3
	D. Oqualo		A A B
			Which of the following pairs of angles is
			equal?
			A. ∠1 and ∠2
			B. ∠3 and ∠4
			C. $\angle 1$ and $\angle 3$
			D. ∠1 and ∠4
			J 1 www _ 1

Q25.		Q26.	c V
	P Q		
	$O \longrightarrow B M$		x 10
	s		
			Λ
	L/ T		A 6 B
	Which of the following is chord of a circle?		The value of x in the above figure is
			A. 4
	A. $\frac{OR}{IM}$		B. 8 C. 12
	B. LM C. \overline{ST}		D. 16
	$\frac{ST}{PQ}$		
Q27.	If a = 6cm, b = 7cm, c = 9cm, then the area	Q28.	The surface area of a sphere with radius
	of the triangle is		6cm is
	A. 9.4 cm ² B. 10.5 cm ²		A. 3168.0 cm ² B. 2715.4 cm ²
	C. 14.8 cm ²		C. 452.6 cm ²
	D. 20.97 cm ²		D. 75.4 cm ²
Q29.	The parts of the prepositions or theorem are	Q30.	Volume of a cone is equal to
	A. 2		A. $fr(r+\ell)$
	B. 3 C. 4		B. $\frac{1}{2}fr^2h$
	D. 5		3
			C. $\frac{4}{3}fr^3$ D. $4fr^2$
			D. $4f r^2$
Q31.	\wedge	Q32.	"Every even number is divisible by 2." The given statement represents
			·
	8cm \5cm		A. a corollary. B. an axiom.
			C. a postulate. D. a theorem.
	3cm		
	The volume of the given cone will be		
	A. 37.7 cm ³		
	B. 75.4 cm ³ C. 113.0 cm ³		
	D. 192.0 cm ³		

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Q33.	An axiom is the type of assumptions which is related to A. numbers. B. geometrical figures. C. corollary. D. angles.	Q34.	Cot 30° = A. $\frac{1}{2}$ B. $\frac{1}{\sqrt{3}}$ C. $\frac{\sqrt{3}}{1}$
007		066	D. $\frac{2}{1}$
Q35.	Which of the following has value 1?	Q36.	$2Sin30^{\circ} + \sqrt{2}Cos45^{\circ} =$
	A. Sin 45°		2
	B. Cos 45°		A. $\frac{2}{\sqrt{2}}$
	C. Tan 45°		$\sqrt{2}$ B. 2
	D. Sec 45°		D. 2
			c. $\frac{1}{\sqrt{2}}$
			D. 1
Q37.	$Cos(90^{\circ}{"}) =$	Q38.	19, 21, 20, 18, 23, 19, 20, 18, 19, 20, 19
			The frequency of 19 in the given data is
	A. Sec,		
	B. Cosec ,, C. Sin ,,		A. 1 B. 2
	D. Tan,		C. 3
			D. 4
Q39.	Mode of 7, 8, 11, 10, 8, 9, 13 is	Q40	The number $\sqrt{5}$ is
	A. 8		
	B. 9		A. a rational number.B. a whole number.
	C. 10 D. 13		C. an irrational number.
			D. an odd number.

GRADE – VIII MODEL PAPER 2017

MATHEMATICS

Section B: Constructed Response Questions	Roll No.					
Time: 2 hours 10 minutes Marks: 60	140.					
لے سوال کو غورسے پڑھیں۔ 3. سوال کاجواب دی کئی جگہ پر تحریر کریں۔	ریخے سے پہا	2. جواب	 روری-	اب دیناض		ہدایان 1. ہم
Q1. If $A = \{2,4,6,8\}$ $B = \{3,5,7,9\}$ $C = \{1,2,3,4,5\}$ then prove that $A \cap (B \cup C) = (A \cap B) \cup (A \cap C)$				(То	otal 6 M	arks)

Q2.	If	$\bigcup = \{x \mid x \in w \text{ and } 0 \le x \le 7\}$
		$A = \{ x \mid x \in z \text{ and } 2 \le x \le 5 \}$
		$B = \{ x \mid x \in z \text{ and } 4 \le x \le 7 \}$
	then	prove that $(A \cap B)' = A' \cup B'$

(Total 6 Marks)

Q3.	Find the values of	(T
		'

i.	$\sqrt[3]{216}$

	$(1)^3$					
ii.	$\left(\frac{-}{5}\right)$					

(Total 6 Marks)

Q4.	Ali's monthly salary is Rs. 8000. Calculate his income tax at the rate of 5% and 80,000.	the rebate is Rs. (Total 6 Marks)
Q5.	Find the value of $x^2 + \frac{1}{x^2}$ when $x + \frac{1}{x} = -12$	(Total 6 Marks)

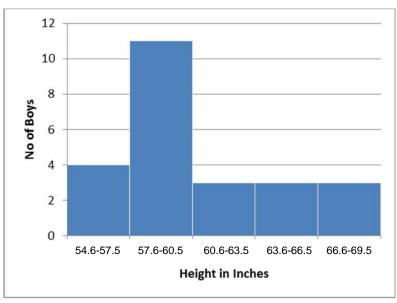
Q6. 	Kamal then how much pocket money Ali and Kamal gets daily.	(Total 6 Marks
7.	Construct a right angled triangle ABC, where $\angle B = 90^{\circ}$, $\overline{BC} = 4cm$ and	d hynotenuse
	$\overline{AC} = 5cm$. Also write steps of construction.	(Total 6 Mark

Q8.	Prove: congrue	If two ent.	sides	of a	triangle	are	congruent	then	angles	opposite	to	these sides (Total 6 Mar	<i>are</i> ks)

Q9.	The angle from a point on level ground 40 m from the foot of a tower is 45 degree	e. What is the
	height of the tower?	(Total 6 Marks)

Q10. The given histogram shows height (in inches) of different boys.

(Total 6 Marks)



- 1. What is the total number of boys shown in the histogram?
- 2. How many boys are with height in the range of 60.6 63.5 inches?
- 3. What is the maximum height of the boys?
- 4. What is the class interval of the given data? Write down the range of the given data.

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