



ক্যাটাগরি: প্রাইমারি (৩য়-৫ম শ্রেণী)

সময়: ১ ঘন্টা ১৫ মিনিট

নাম(বাংলায়):

শ্ৰেণী(২০০৯ সাল):

Name (In English):

Registration No:

[এই উত্তরপত্রের নির্দিষ্ট স্থানে উত্তর লিখতে হবে। খসড়ার জন্য পৃথক কাগজ ব্যবহার করতে হবে এবং তা জমা দিতে হবে। সকল সংখ্যা ইংরেজীতে লেখা হয়েছে। সবাইকে নিজ নিজ উত্তরপত্র জমা দিতে হবে।]

bs	cike	DËi
1.	cuPwU wi Kkv cäZ NyUvq h_vµ‡g $\frac{10}{20}$, $\frac{20}{30}$, $\frac{30}{40}$, $\frac{40}{50}$, $\frac{50}{60}$ gvBj P‡j me‡P‡q בּיּ ZMvgx wi Kkvi teM me‡P‡q axi Mvgx wi Kkv te‡Mi KZMY?	$\frac{5}{3}$
	Five rickshaws run at a speed of $\frac{10}{20}$, $\frac{20}{30}$, $\frac{30}{40}$, $\frac{40}{50}$, $\frac{50}{60}$ miles per hour respectively. Find the ratio of the speed of the fastest rickshaw to the slowest	
	rickshaw.	
2.	GKNU evt· 4 †_‡K 45 ch®ĺ 4 Gi "WYZK (4 Øviv NefvR") msL"v"‡jv ivLv nj evt· †gvU KqNU msL"v Av‡Q Ges evt· _vKv msL"v"‡jvi †hvMdj KZ?	11, 264
	There are all the multiples of 4 from 4 to 45 in a box. How many numbers are there in the box? What is the summation of all numbers which are in the box?	
3.	1 †_‡K 72 Gi g‡a" ‡gvU KZwU msL"v Av‡Q hviv 4 Gi _wYZK wKš'2 Gi _wYZK bq? What is the total number of the numbers from 1 to 72 which are divisible by 12 but not by 6?	0
4.	2, 3, 4, 5, 6 GB cuPuU AsK ‡_‡K cūZevi `BuU K‡i AsK ub‡q †gvU KquU abvZ¥K AckZ fMusk ^Zwi Kiv hv‡e hv‡`i gvb 1 Gi †P‡q Kg? How many positive improper fractions can be made using any two of the five digits 2, 3, 4, 5, 6 at a time?	10
5.	x, y, z wf bowf bot g s y K msL y th L y	2, 3, 5
	what is their minimum value?	
6.	6-Gi Drcv`K ‡gvU 4wU: 1, 2, 3, 6 Ges †gŚwj K Drcv`K ïagvÎ `ßwU: 2, 3 105 Gi me‡gvU KZ¸‡j v Drcv`K Av‡Q?	8
	The number 6 has four factors 1, 2, 3, 6 and 2, 3 are the only prime factors. How many factors 105 do have?	
7.	16 wWtm¤î evsj vt`tki weRq w`em 16/12/1971 ZwwitL evsj vt`k faxb nq 16,12 Ges 2010 Gi ¸Ydtj i tgvšwj K Drcv`K¸tj v wbY@ Ki	2, 3, 5, 67
	16th December is the Victory Day of Bangladesh. Bangladesh achieved its independence on 16/12/1971. Find out all the prime factors of the product of 16, 12 and 2010.	



WvP-evsj v e vsK - c<u>0</u> g Avtj v MvYZ Drme 2010 রাজশাহী আঞ্চলিক গণিত অলিম্পিয়াড



Av‡qvRK: evsj v‡`k MwYZ Awj w¤úqvW KwgwU

bs	CK®	DËi		
8.	QvitcvKv Rtb¥i ciw`b †_tKB c@Zw`b GKwU Kti ev"Pv t`lqv ïiyKti QvitcvKv MtelK wg: `xtck	16		
	17 wWtm¤î GKwU evt· m` Rb¥tblqv GKwU QviţcvKv tiţL w`tj b 21 wWtm¤î tkţl H evt· KqwU QviţcvKv vKţe?			
	A bug starts breeding on the very next day of its birth. On 17 th December bug			
	researcher Mr. Dipesh kept a new born bug in a box. What will be the number of			
	bugs in that box after 22 nd December?	0		
9.	$\angle Z = 80^{0} \text{ Ges } \angle X = 3\angle Y \text{ ntj}$	75 ⁰		
	$\angle X$ Gi cwi gvc KZ?			
	$\angle Z = 80^{\circ} \text{ and } \angle X = 3 \angle Y.$			
	Then find the value of the			
	\mathbf{v} \mathbf{X} \mathbf{Z} \mathbf{X} .			
	A B			
10		1		
10.	, , , , , , , , , , , , , , , , , , , ,			
	Kţi Zţe AšĺZ GKRb ivRţfvM c0>` Kţi hw` thţKvb `ßRţbi AšĺZ GKRb imgvjvB c0>` Kţi Zvnţj AwZw_ţ`i tgvU KZRb ivRţfvM c0>` Kţi?			
	4 visitors are sitting in a room. Each one likes ROSMALAI or RAJVOG. At least			
	one likes <i>RAJVOG</i> . Given that between any two students at least one likes			
11	ROSMALAI. How many visitors like RAJVOG?	i)		
11.	hw` a Ges b DfqB wetRvo msL"v nq wbtPi †KvbwU Aek"B wetRvo nte? If a and b are both odd numbers, which of the following must be an odd integer?			
	i) $(a + b)^2$ -5 ii) $a^2 + b^2$ iii) $(a + 1)^2$ - $(b + 1)^2$	$(a+b)^2-5$		
	$iv) (a - b + 1)-9$ $v) (a + 1) \times (b + 1) - 2$			
10	MAY 7 And marked Marketing Clad 1 1 1 1 / manufa m2 m2 m2 d 4 0 d 1 2 1 2 4 1 / m fam A 2 1 m fam A 2			
12.	MwYZ Awjw¤úqv‡W gyfv‡m® GKwU `j‡K mgvb m`m" wewkó 8 wU `‡j fvM Kiv hvq, Avevi mgvb m`m" wewkó 12 wU `‡j I fvM Kiv hvq∣ H `‡j †gvU gyfv‡m® msL"v b~bZg KZ n‡Z n‡e?	24		
	A group of MOVers can be divided into 8 teams with an equal number of			
	MOVers in each team or into 12 teams with an equal number of MOVers in each			
	team. What is the lowest possible number of MOVers in the group?			





ক্যাটাগরি: জুনিয়র (৬৯-৮ম শ্রেণী)

সময়: ১ ঘন্টা ১৫ মিনিট

নাম(বাংলায়):

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bs	cike	DËi
1.	MwYZ Awjw¤úqv‡W gyFv‡m® GKwU `j‡K mgvb m`m" wewkó 6 wU `‡j fvM Kiv hvq, Avevi mgvb	12
	m`m" wewkó 12 wU`‡j I fwM Kiv hvq H`‡j †gvU gyFv‡m® msL"v b=bZg KZ n‡Z n‡e?	
	A group of MOVers can be divided into 6 teams with an equal number of	
	MOVers in each team or into 12 teams with an equal number of MOVers in	
	each team. What is the lowest possible number of MOVers in the group?	
2.	Pvi A‡¼i th KqwU msL"v Av‡Q hv‡`i t_‡K 12 we‡qvM Ki‡j Zv 12 w`‡q, 13 we‡qvM Ki‡j Zv 13	2964,
	w`tq Ges 19 wetqvM Kitj Zv 19 w`tq fvM hvq tm msL"v_wj wbY@ Ki	5928,
	Find all the 4-digit numbers which are divisible by 12, 13 and 19 if 12, 13 and	8892
3.	19 are subtracted from the numbers respectively. egeg	
٥.	eggey about rinit and the first of the fir	1
	Boomboom joined Scout Jamboree. Every scout was said to handshake with	
	each other. Some of them did not do. The total number of handshakes was 2.	
	Find the minimum number of handshakes which were not done?	
4.	AfxK, mỳxß I dimv` AÜKvi iv‡Z GKwU †mZzcvi n‡e †mZzcvi n‡Z Zv‡`i h_vµ‡g 10, 12	35
	I 13 wgwbU mgq j v‡M Zv‡`i nv‡Z th UP\$vBUwU Av‡Q tmwUi Av‡j v‡Z eo‡Rvo `BRb GKmv‡_	33
	tmZzcvi n‡Z cvti wZbR‡bi tmZwU cvi n‡Z me@bgodKZ mgqjvMte?	
	Avik, Sudipta and Farshad will cross a bridge in the night. They need 10, 12	
	and 13 minutes respectively to cross the bridge. They have only one torch light.	
	It is possible only for 2 persons to cross together with that torchlight. Find the	
_	smallest possible time needed for these 3 persons to cross the bridge.	
5.	4 U 7	U=3
	1 6 2 + N 2 3	N= 6
	+ IN 2 3	
	1 2 2 2	
	hw`UGes N`, WU wfbooAsK wbt`RKti Zvntj Gi gvb wbY@Ki	
	If U and N represent single digits in the correctly worked computation above	
	what is the value of N and U?	
6.	2x + z = 2y Ges 2x + 2y + z = 20 ntj y Gi gvb NbYQ Ki	5
	If 2x+z=2y and 2x+2y+z=20, what is the value of y?	
7.	1 †_‡K 150 Gi g‡a¨‡gvU KZwU msL¨v Av‡Q hviv 15 Gi ¸wYZK wKšĺ 5 Gi ¸wYZK bq?	0
	What is the total number of the numbers from 1 to 150 which are divisible by	
	15 but not by 5?	



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•11 =1 11 =	, ,,,,		- 11 11	(•((•
Av‡qvRK:	evsj v‡	`k MwYZ	Awj w¤úo	qvW KwgwU

bs	CŘæ	DËi
8.	$\angle y$ Gi cwi gwc KZ? In the figure above, what is the value of $\angle y$?	60°
9.	Cuţki เเคโเเปţZ mgvb etû wewkó GKıl eM®Aci GKıl etM®Dci Ae¯vb KiţQ PIQ etM® evûi gaïwe`y evûi ‰ N°®6 GKK Qvqv Av″Qwi Z cţiv Gj vKılli ক্ষেত্ৰফল wbYte Ki Two squares of length 6 are put in a position as the figure. P and Q are the midpoint. Find the total shaded area.	63
10.	hw` a Ges b DfqB we‡Rvo msL"v nq wb‡Pi †KvbwU Aek"B we‡Rvo n‡e? If a and b are both odd numbers, which of the following must be an odd integer? i) $(a+b)^2$ ii) a^2+b^2 iii) $(a+1)^2-(b+1)^2$ iv) $(a-b+1)-8$ v) $(a+1)$ X $(b+1)$ -4	iv) (a - b + 1)- 8
11.	n hw` 1 †_tK 13 ch\$\(\) msL'v_tj vi _Ydj nq, Zvntj n Gi tgvU KZ_tj v tg\(\) tg\(\) K AvtQ? If n is the product of the integers from 1 to 13, inclusive, how many prime factors greater than 1 does n have?	6
12.	gej z cůZw`b UvKvi evt. AvtMi `ß w`tbi mgvb cwi gvb UvKv Rgv Kti cůg `ß w`b ej z 1 UvKv Kti evt. titLvQj Aóg w`b tktl ej i evt. tgvU KZ UvKv Rgv nj? ej z cůZw`b Mto KZ UvKv Kti Rgvj? Everyday Gublu saves money in her money bank. Every day he saves as much as he saved in last two days. Gublu saved taka 1 on first two days. What will be the total amount of money in his bank after eight days? What is the average amount of money that he saved everyday?	54; ⁵⁴ / ₈ =6.75





ক্যাটাগরি: সেকেন্ডারি(৯ম-১০ম শ্রেণী) সময়: ১ ঘন্টা ১৫ মিনিট

নাম(বাংলায়) শ্রেণী(২০০৯ সাল):

Name (In English): Registration No:

[এই উত্তরপত্রের নির্দিষ্ট স্থানে উত্তর লিখতে হবে। খসড়ার জন্য পৃথক কাগজ ব্যবহার করতে হবে এবং তা জমা দিতে হবে। সকল সংখ্যা ইংরেজীতে লেখা হয়েছে। সবাইকে নিজ নিজ উত্তরপত্র জমা দিতে হবে।

bs	CÏKŒ	DËi
1.	hw`m Øviv c <u>üg</u> `kwU abvZ¥K cY ^e msL¨vi MwYwZK Mo wb‡`R Kiv nq, Avi M Øviv Zv‡`i ga¨K	0
	wbţ`R Kiv nq Zvnţj M-m Gi gvb KZ?	
	If m is the average (arithmetic mean) of the first 10 positive multiples of 5 and	
	if M is the median of the first 10 positive multiples of 5 what is the value of	
	M-m?	
2.	X tmUvUtZ 20vU Akb ev le msL v itqtQ Ryevtqi Zvi Ajm mgtq GKvU tmU Y evbvtj v hvi	1
	$\operatorname{Coll}(X) = \operatorname{Coll}(X) = C$	
	tmU`nJui me¸tjv msL"vtK ¸Y Kti w`j ¸Ydj KZ?	
	X set contains 20 non-zero real numbers. Jubaer, in his idle time, created a set	
	Y that contains the reciprocals of the numbers of set X (reciprocal of 2 is $^{1}/_{2}$).	
3.	Then he multiplied all the elements of set X and Y. What is the product? 4 wU wFbcmsL"v‡K Ggb KZfv‡e ‡j Lv †h‡Z cv‡i †hb Zviv eo †_‡K †QvU wKsev †QvU †_‡K eo	41.2.22
٥.	AVKVI I WILLV_VK te by?	4!-2=22
	In how many ways can four different numbers be arranged so that they are not	
	arranged in increasing or decreasing order?	
4.	$A = \{2, 3\}, P(P(A)) \text{ tmUvU$tK Zwij Kv AvKv$ti wj L$tZ PvB$tj KZevi 3 msL"wJtK wj L$tZ n$te?}$	16
	$A = \{2, 3\}$, how many times you have to write the number 3 if you want to	10
	write the set $P(P(A))$ in enlisted form.	
5.	eQtii c <u>0g</u> w`b t_tKB mez cozw`b UvKvi evt- 3 UvKv Kti Rgvq Zvi tQtj 'K' c <u>0g</u> w`b 4	22 Dec
	UvKv, nØZxq w`b 5 UvKv, Zvi ci w`b 6 UvKv Gfvte (4 UvKv t_tK ïiy Kti µmgK cY©msL"v	
	Abymv‡i) UvKv Rgv K‡i gv‡S GKw`b 'K' Zvi evt- UvKv †dj‡Z f‡j hvq Z‡e Zvi ciw`b Zvi	
	hZ UvKv tdjvi K_v ZZ UvKvB tm tdtj tek wKOzw`b ci mpzi evt 1095 UvKv Rgv nq, tm	
	mgq'K'i evt. 67531 UvKv Rgv nq 'K' KZ Zwwi‡L UvKv†dj‡Z ftj wMtqwQj?	
	From the first day of year, Subrata saves taka 3 in a box everyday. His son KA	
	saves taka 4 on the first day, taka 5 on the second and continues in a arithmetic	
	progression. In between, he forgets to save money on some day, but the next	
	day he saves the same amount he was supposed to save that day. After some	
	days, Subrata's saving is taka 1095 and that of KA's is 67531. What was the	
	date he forgot to save money on?	





bs	CÏKŒ	DËi
6.	A \mathbf{B} $\mathbb{P}^{\ddagger \hat{\mathbf{I}}}$ $AD = 4$, $AB = 3$ Ges $CD = 9$	4.5
	Δ AEC Gi ক্ষেত্রফল KZ?	
	In the figure above AD = 4, AB = 3 and CD = 9. What is the area of triangle \triangle AEC?	
7.	n hw` 1 †_‡K 8 ch®í msL"v¸‡j vi ¸Ydj nq, Zvn‡j n Gi †gvU KZ¸‡j v †g\$wj K Drcv` K Av‡Q? If n is the product of the integers from 1 to 8, inclusive, how many prime factors greater than 1 does n have?	4
8.	A **JU mgvb eË ci -ui tK A I C we> tZ tQ` Kti Ges B I D Pvc `yUi ga we> y AC ti Lvstki ^`N 24cm I BD=10cm ntj etËi e vmva by Ki The crescent moon ABCD is formed with two arcs ABC and ADC which are parts of two equal circles (B and D are midpoints of the circles). Line segment AC=24 cm and BD=10cm. Find the radius of the circle.	13
9.	GKNU e‡Ëi cwiwai Dci n msL"K we>`yAv‡Q we>`y¸‡j v †hvM K‡i GKNU n fR ^Zwi Kiv nj D³ n f‡Ri †gvU 20nU KY $^{\circ}$ Av‡Q n=? There are n points in the circumference of a circle. By connecting these points n-gon is made. The number of diagonals of the n-gon is 20. Find the value of n?	8
10.	2^k+1 AvKv‡i i †gŠnj K msL"v tj v‡K dvgA †gŠnj K msL"v ej v nq, GLv‡b k nj 2 Gi NvZ Ges GKnU cYmsL"v 1 † ‡K 126 ch \S í KZ tj v dvgA †gŠnj K msL"v i ‡q‡Q? Fermat primes are prime numbers that can be written in the form 2^k+1 where k is an integer and a power of 2. How many there are Fermat primes from 1 to 126?	4
11.	`kıll µııgK cY ^a msL'vi c <u>l</u> g cuPılli thıMdj 560, c‡i i cuPılli thıMdj KZ? In an increasing sequence of 10 consecutive imtegers the sum of the first 5 integers is 560. What is the sum of last 5 integers in the sequence?	575
12.	1 † ‡K 1000 ch s Ggb KqwU cYmsL"v Av‡Q hviv 3 A_ev 7 Øviv wefvR" How many numbers from 1 to 1000 are divisible by 3 or 7?	428



WvP-evsj v e vsK - c g Av j v MvYZ Drme 2010 রাজশাহী আঞ্চলিক গণিত অলিম্পিয়াড



Av‡qvRK: evsjvt`k MwYZ Awj w¤úqvW KwgwU

ক্যাটাগরি: হায়ার সেকেন্ডারি (একাদশ-দ্বাদশ-এইচএসসি) সময়: ১ ঘন্টা ১৫ মিনিট নাম(বাংলায়): শ্ৰেণী(২০০৯ সাল):

Name (In English):

Registration No:

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bs	cike	DËi
1.	eggegg ~wDU‡`i m‡¤§j‡b wM‡q‡Q †mLv‡b c#Z"K ~wDU Ab" mevi mv‡_ Kig`19 Kivi K_v ‡KD †KD	3
	Avevi Kig`® K‡iwb me\$gvU Kig`\$bi msL"v 7 n‡j me®bgœKZM¢jv Kig`® nqwb?	
	Boomboom joined Scout Jamboree. Every scout was said to handshake with each	
	other. Some of them did not do. The total number of handshakes was 7. Find the	
	minimum number of handshakes which were not done?	
2.	θ Ggb GKwU Acv‡iUi †hb a θ b= $\frac{a-b}{a+b}$ Ges $a \neq -b$ hw` $a \neq -c$ Ges $a \theta$ $c = 0$ nq Zvn‡j	а
	c =? An operation θ is defined by the equation a θ b= $\frac{a-b}{a+b}$ for all numbers a and	
	b such that $a \neq -b$. If $a \neq -c$ and $a \theta c = 0$ then $c = ?$	1 .
3.	bvtUi ewotZ 5 †Rvov RZV i‡qtQ GjvKvi KŁ vZ †Pvi eëzGK ivtZ bvtUi RZV ţjv †_‡K 3wU RZV	¹ / ₃
	wbtq cvj vtj v H 3mU Rizvi gta" GKmU †Rvov cvevi m¤đebv KZ?	=
	Naat has 5 pairs of shoes in his house. One night, a locally well known thief called	0.33
	Boltu came to Naat's house and stole 3 shoes randomly. What is the probability that there was a pair of shoes in those 3 shoes?	
4.	1 † ‡K 1000 ch sí Ggb KqwU c¥msL"v Av‡Q hv 3 wKsev 6 Gi "wYZK wKš'5 Gi "wYZK bq?	467
4.	From 1 to 1000, how many integers are multiples of 3 or 6 but not of 5?	407
5.	C	0
	8 X X Y	
6.	$2^{1024} + 5^{1024}$ †K 3 Øvi v fvM Ki‡j KZ Aewkó _vK‡e?	2
	What is the remainder when $2^{1024} + 5^{1024}$ is divided by 3?	





bs	cike	DËi	
7.	`BuU mgvšĺivj mij‡iLvi GKuU‡Z 5wU I AciwU‡Z 4wU we>`yAv‡Q we>`y¸‡jv †hvM K‡i †gvU 20wU mij †iLvsk ^Zwi Kiv nj mij‡iLvsk¸‡jv wb‡R‡`i g‡a¨ †gvU KZ¸‡jv †Q`we>`y^Zwi Ki‡e? hw`	60 ^m C ₂ × ⁿ C ₂	
	mgvšĺivj mij†iLv`yU‡Z m I n msL¨K we>`y_v‡K Zvn‡j KZwU†Q`we>`y^Zwi n‡e?		
	There are 5 points and 4 points on two parallel lines respectively. Connecting all		
	the points 20 lines have been found. How many intersecting points have been created by these 20 lines? If there are m & n points on the parallel lines then what		
	will be the number of intersecting points?		
8.	N Ges P, 1 Gi †P‡q eo †Kvb c¥ $^{\text{M}}$ sL $^{\text{"v}}$ P, N+4 Ges N+12 Gi Drcv $^{\text{*}}$ K P Gi gvb $_{\text{*}}$ ‡j v wbY $^{\text{Q}}$ Ki?	2, 4, 8	
	If N and P are integers greater than 1 and if P is a factor of both N+4 and N+12, what are the values of P?		
9.	$f(x) = \frac{x^2}{\sqrt{x}}$ nți f Gi ti Ä KZ thLvtb x $\in \mathbb{R}$?	$R_{+} - \{0\}$	
	$f(x) = \frac{1}{\sqrt{x}} \text{iff } f(x) = \frac{1}{\sqrt{x}} \text{iff } $		
	What is the range of f where $f(x) = \frac{x^2}{x}$ and $x \in \mathbb{R}$		
	what is the range of f where $f(x) = \frac{1}{x}$ and $x \in \mathbb{R}$		
10.	turkbvd tzzuj qv	18	
	mij ti Lv Øviv GB QwetZ tUKbvd t_tK tZZwj qv hvl qvi mKj c_t`Lvtbv ntqtQ GKwU Bû y tUKbvd t_tK tZZwj qv hvte, tmLvtb wMtq tm GKwU iywUi UKiv cyi ~vi wntmte cvte GKB RvqMvq `Bevi bv Gtm tm tgvU KZfvte tUKbvd t_tK tZZwj qv thtZ cvite?		
	The diagram above shows the various paths along which a mouse can travel from		
	point Teknaf, where it is released, to point Tetulia, where it is rewarded with a food pellet. How many different paths from Teknaf to Tetulia can the mouse take		
	food pellet. How many different paths from Teknaf to Tetulia can the mouse take if it goes directly from Teknaf to Tetulia without retracting any point along a path?		
11.	GKWU 4 GKK বৰ্গক্ষেত্ৰের gta" metPtq eo th mgevû wÎ fR AvKv hvq Zvi ক্ষেত্ৰফল KZ?		
	What is the area of the largest equilateral triangle that can be inscribed in a 4 unit square?		
12.	G A ABCD GKIN i mm 2CH=AE=BE=4 Ges	√ 3	
	D BG \perp AD \angle ABC=60 0 ntj FG=? In ABCD rhombus 2CH=AE=BE=4 and		
	BG \perp AD. If \angle ABC=60 $^{\circ}$ then find the		
	F E value of FG.		
	В Н С		