

ଉ-ସିଦ୍ଧାନ୍ତ

I (କ) ଘନ (ଘ) ଘନମୁହ (ଖ)

II (କ) ମତ୍ତ (ଘ) ଶିକ୍ଷା (ଖ) ମତ୍ତ ।

2. (କ) କାମ (ଘ) ଜାକ୍ସର (ଖ) ଶନ (ଘ) କାମର (ଖ) ମନ୍ତ୍ରୀ

3. I (କ) ମୁଦ୍ରା-କମ୍ପ (ଖ) ୨୩ ଫାଲ୍‌ଗୁଣୀ (ଖ)

II (କ) ଆଦାନାଦାନ (ଘ) ପ୍ରେମିତେନ୍ଦ୍ର (ଖ) କର୍ତ୍ତୃକେ ।

ଘ-ସିଦ୍ଧାନ୍ତ

(A) ଋ - (ii) ଘ - (iii) ଙ - (ii) ଚ - (iii) ଛ - (iii) ଜ - (i) ଢ - (i)  
 କ - (i) କ୍ଷ - (ii) ଞ - (i)

(B) (କ) ପ୍ରାକୃତିକ (ଘ) - ବାଦୁଦାର (ଖ) ବନ୍ୟ ମନୁଷ୍ୟ (ଘ) ଲର୍ଡ (ଇଂଲିଣ୍ଡ) ।  
 (ଝ) ଡେଝିକା (ଞ) ପ୍ରମୋଦକ୍ଷି (ଢ) ଅସ୍ଥିନତା (ଢ) ମନୁଷ୍ୟ କ୍ରମ 11

(C) (କ) ଚୋରତ୍ୱ ଆନ୍ଦୋଳନ ନିକୋଟିନ ଦ୍ୱୀପମୁକ୍ତ, ତାମିଲନାଡୁ, କେରଳା, କର୍ନାଟକ, ମହାରାଷ୍ଟ୍ର, ଆନ୍ଧ୍ର, ଆନ୍ଧ୍ରାପ୍ରଦେଶ, ମାଧ୍ୟାତ୍ମ୍ୟ, ଉତ୍ତରାଖଣ୍ଡ, ଉତ୍ତରାଞ୍ଚଳ, ପ୍ରକୃତି ସୁରକ୍ଷା ଦେଖା ଯାଏ ।

(ଘ) ଫିଟିଲି । (ଙ) ନାନା ମାତ୍ରାରେ ମନୋମାତି ଫ୍ଲୋରୋ କାର୍ବୋନ ଶାହ ।  
 (ଜ) EVM - Electronic Voting Machine . (ଢ) 2005 .

D (i) - d (ii) - c (iii) - b (iv) - e (v) - a

E (କ) ଯେଉଁ ମଧ୍ୟମ ସମ୍ବେଦନା ପରିଚାଳନା କାର୍ଯ୍ୟ ଯାଏ ନା ମନୁଷ୍ୟଙ୍କ ମାନବ ସ୍ୱଭାବରେ ମଧ୍ୟ । ଯେଉଁମାନେ ଏହି ନିରାପେକ୍ଷ ମାନବ । ଯେଉଁମାନେ —  
 (ଘ) ଦୁର୍ଲଭତାରେ କରନ୍ତେ — (i) ଦୀର୍ଘକାଳୀନ ବୃତ୍ତିଗାତ୍ର କାର୍ଯ୍ୟ ଦୁର୍ଲଭତାରେ  
 (ii) ଦୁର୍ଲଭତାରେ ବନ୍ୟା ଅଭାବ ପାରମ୍ପରିକତାରେ କାର୍ଯ୍ୟ ଦୁର୍ଲଭତାରେ ହୁଏ ।

(ଖ) ସାମ୍ପ୍ରଦାୟିକ ଶକ୍ତି ଲକ୍ଷ୍ୟରେ ତିନି ଶାସ୍ତ୍ରୀ ମଧ୍ୟରେ ମଧ୍ୟ ଶାସ୍ତ୍ରୀ ମଧ୍ୟରେ ମଧ୍ୟ ତିନି ନିକଟ ପୁରୀରେ  
 ଶାସ୍ତ୍ରୀ-ଶିକ୍ଷାରେ ସ୍ୱାଧୀନତା ଦିତ୍ତ ଅନୁକୃତି କାର୍ଯ୍ୟରେ । ତିନି ମଧ୍ୟ  
 ଦାମ୍ପତ୍ୟରେ କାର୍ଯ୍ୟରେ ।

(ଘ) ଯିଏମା ମୁକ୍ତ ହିଲିନ ମଧ୍ୟରେ ତିନି ଶାସ୍ତ୍ରୀ ଯୋଗା ମଧ୍ୟ ଦେଖାଦେଖି  
 ନେତା । ଯିଏମା ମୁକ୍ତ ମଧ୍ୟରେ କାର୍ଯ୍ୟରେ ହୁଏ ।

(ଝ) ଦିନିକ ଦେଖାଦେଖି ତିନି 1956 ମାନେ ପ୍ରକୃତିରେ ହିଲିନ ।

**Half-Yearly Examination-2019**

শ্রেণি (Class) : অষ্টম (VIII)

বিষয় (Subject) : গণিত (Mathematics)

**Answer Key- SET-A**

ক-বিভাগ (Group-A) 20 Marks

নম্বর বিভাজনের সহিত উত্তর পত্র :

- |            |  |       |
|------------|--|-------|
| 1. (I) (i) | 401                                      | 2     |
|            | (ii) 112, 113                            | 2     |
|            | (iii) 133, 136                           | 2     |
| (II) (i)   | $214 = 200 + 10 + 4$                     | 2     |
|            | (ii) $356 = 300 + 50 + 6$                | 2     |
| 2.         | শীর্ষবিন্দু (Vertices) (1) A (2) B (3) C | 1+1+1 |
|            | বাহু (Sides) (1) AB (2) BC (3) CA        | 1+1+1 |
| 3. (i)     | $100 - 82 = 18$                          | 2     |
|            | (ii) $100 - 89 = 11$                     | 2     |

## খ-বিভাগ (Group-B) 40 Marks

- |        |   |                             |
|--------|---|-----------------------------|
| 4. (a) | 4   | 1                           |
| (b)    | হেড (Head), টেইল (Tail)                                       | 1                           |
| (c)    | 25  | 1                           |
| (d)    | $x + 2 = 5$ সত্য (True)                                       | 1                           |
|        | বা, $x = 5 - 2$   |                             |
|        | বা, $x = 3$   |                             |
| (e)    | 20  | 1                           |
| (f)    | (ii) $-\frac{19}{13}$   | 1                           |
| (g)    | (i) 50  | 1                           |
| (h)    | AC, BD  | $\frac{1}{2} + \frac{1}{2}$ |
| (i)    | সত্য (True)   | 1                           |
| (j)    | (ii) 1  | 1                           |
| 5. (a) | $\frac{3}{5} = \frac{3 \times 4}{5 \times 4} = \frac{12}{20}$ |                             |
|        | $\frac{3}{4} = \frac{3 \times 5}{4 \times 5} = \frac{15}{20}$ | 1                           |
|        | মূলদ সংখ্যাটি হল  |                             |

- (The rational number is)  $\frac{13}{20}$  1
- (b) ধরি, বর্গক্ষেত্রের বাহুর দৈর্ঘ্য a  
 $\therefore$  বর্গক্ষেত্রের ক্ষেত্রফল =  $a^2$  1  
 $\therefore a^2 = 144$   
 $a^2 = 12^2$   
 $a = 12$   
 $\therefore$  বর্গক্ষেত্রের বাহুর দৈর্ঘ্য 12 মিটার। 1
- Let the length of the side of a square be 'a'  
 $\therefore$  Area =  $a^2$  1  
or,  $a^2$  Area =  $a^2$   
or,  $a^2 = 12^2$   
or,  $a = 12$   
 $\therefore$  Length of the side of a square is 12m 1
- (c) 1, 2, 3, 4, 5, 6  
মৌলিক সংখ্যাগুলো হল- 2, 3, 5 1  
মৌলিক সংখ্যা পাওয়ার সম্ভাবনা =  $\frac{3}{6} = \frac{1}{2}$  1  
Sample Space- 1, 2, 3, 4, 5, 6 1  
Prine nos. one 2, 3, 5  
Probality of getting prime number =  $\frac{3}{6} = \frac{1}{2}$  1
- (d) ক্রিকেট (Cricket) 1  
টেনিস (Tennis) 1
- (e) 1057-এর এককের অঙ্কটি হল 7 1  
 $\therefore$  1057 সংখ্যাটি পূর্ণবর্গ নহে। 1  
The number ends with 7 1  
 $\therefore$  1057 is not a Perfect square. 1
- (f)  $2x - 1 = 14 - x$   
or,  $2x + x = 14 + 1$  1  
or,  $x = 5$  1
- (g) -1, 0 বা 1, 2 বা 2, 3 ..... ইত্যাদি 1+1
- (h) বাহুর সংখ্যা =  $\frac{360^\circ}{\text{বহিঃস্থ কোণ}} = \frac{360^\circ}{18^\circ}$  2

$$\text{No. of Sides} = \frac{360^\circ}{\text{exterior angle}} = \frac{180^\circ}{18^\circ}$$

2

(i) অন্তঃস্থ কোণগুলোর সমষ্টি

$$= 2(n - 2) \times 90^\circ$$

1

$$= 2(5 - 2) \times 90^\circ$$

$$= 540^\circ$$

1

Sum of interior angle of a polygon

$$= 2(n - 2) \times 90^\circ$$

1

$$= 2(5 - 2) \times 90^\circ$$

$$= 540^\circ$$

1

6. (a)  $x = 80^\circ$

1

$$y = 100^\circ$$

1

$$z = 80^\circ$$

1

(b)

Interval শ্রেণিবিভাগ	Tally Marks টালি মার্ক	Frequency পরিসংখ্যা
800 - 810	///	3
810 - 820	///	3
820 - 830		0
830 - 840	/// ///	9
840 - 850	/// ///	5
850 - 860	/	1
860 - 870	///	3
870 - 880	/	1
880 - 890	/	1
890 - 900	/// ///	4
মোট		30

3

(c)  $8x + 4 = 3(x - 1) + 7$

or,  $8x + 4 = 3x - x + 7$

1

or,  $5x = 0$

$\therefore x = 0$

2

(d) ধরো,  $2m = 16$

$$m = 8$$

$$\therefore m^2 - 1 = 8^2 - 1 = 64 - 1 = 63.$$

$$m^2 + 1 = 8^2 + 1 = 64 + 1 = 65.$$

পীথাগোরাসের ত্রয়ীগুলো হল- 16, 63, 65

There are three numbers  $2m$ ,  $m^2 - 1$  and  $m^2 + 1$  in a phthagorean triplet.

$$\text{Let, } 2m = 16$$

$$m = 8$$

$$\therefore m^2 - 1 = 8^2 - 1 = 64 - 1 = 63.$$

$$m^2 + 1 = 8^2 + 1 = 64 + 1 = 65.$$

phthagorean triplet- 16, 63, 65.

$\frac{1}{2}$

$\frac{1}{2}$

1

1

1

### গ- বিভাগ (Group-C) 40 Marks

7. (a)  $\frac{5}{9}$

1

(b)  $108\% = \frac{108}{100}$

1

(c) মিথ্যা (False)

1

(d)  $9 = 1 + 3 + 5$

1

(e) 40

1

(f)  $12^3 = 12 \times 12 \times 12$   
 $= 1728$

1

8. (a)  $\frac{9x}{7-6x} = 15$

1

$$15(7-6x) = 9x$$

$$105 - 90x = 9x$$

$$99x = 105$$

$$x = \frac{35}{33}$$

1

(b) বাহুভুজটির বাহু সংখ্যা =  $\frac{360^\circ}{\text{বহিঃস্থ কোণের মান}}$   
 $= \frac{360^\circ}{45^\circ}$   
 $= 8$

1

1

$$\text{No. of Sides of a polygon} = \frac{360^\circ}{\text{exterior angle}}$$

4/8/6

$$= \frac{360^\circ}{45^\circ}$$

$$= 8$$

(c) মনে করি প্রিয়াঙ্কার কাছে প্রথমে  $x$  টাকা ছিল

$$x - x \times 75\% = 600$$

$$x - \frac{75x}{100} = 600$$

$$\frac{x}{4} = 600$$

$$x = 2400$$

(d)  $\frac{1}{0.3} = \frac{1}{\frac{3}{10}} = \frac{10}{3} = 3\frac{1}{3}$

হ্যাঁ, মূলদ সংখ্যা 0.3 এর গুণজ বিপরীত হল  $3\frac{1}{3}$

Yes,  $3\frac{1}{3}$  is the multiplicative inverse of 0.3

(e)  $4.5 = \frac{4.5}{100} \times 100 = \frac{450}{100} = 450\%$

9. (a)  $\frac{6x+1}{3} + 1 = \frac{x-3}{6}$

$$\frac{6x+1+3}{3} = \frac{x-3}{6}$$

$$2(6x+4) = x-3$$

$$12x - x = -8 - 3$$

$$11x = -11$$

$$x = -1$$

(b) দীর্ঘ পদ্ধতিতে  $\sqrt{1300}$  বের করি। ভাগশেষ পাই, 4.

$$(36)^2 = < 1300$$

$$\text{পরবর্তী বর্গ সংখ্যা} = (37)^2 = 1369$$

$$1369 - 1300 = 69$$

We find  $\sqrt{1300}$  by long division method.

The remainder is 4

This shows that  $36^2 = < 1300$

Next perfect square no. is  $(37)^2 = 1369$

There, the no. to be added is  $1369 - 1300 = 69$ .

(c) CP = Rs. 5400 and

Rate of VAT = 8%

Let CP without VAT is Rs. 100

Then price including VAT =  $100 + 8 = \text{Rs. } 108$

1

When price including Vat is Rs. 1.

Then original price =  $\frac{100}{108}$

1

When price including Vat is Rs. 5400

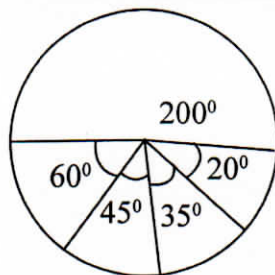
Then original price =  $\frac{100}{108} \times 5400$

= Rs. 50000.

1

10.

Language	No. of Students	Infration	Central Angle
Bengali	40	$\frac{40}{72} = \frac{5}{9}$	$\frac{5}{9} \times 360^\circ = 200^\circ$
Kokborak	12	$\frac{12}{72} = \frac{1}{6}$	$\frac{1}{6} \times 360^\circ = 60^\circ$
Hindi	9	$\frac{9}{72} = \frac{1}{8}$	$\frac{1}{8} \times 360^\circ = 45^\circ$
Tamil	7	$\frac{7}{72}$	$\frac{7}{72} \times 360^\circ = 35^\circ$
English	4	$\frac{4}{72} = \frac{1}{18}$	$\frac{1}{18} \times 360^\circ = 20^\circ$
	72		



(c) Then CP = Rs. 15,000

Repain Cost = Rs. 450

$\therefore$  Totla Cost price =  $1550 + 450$   
= Rs. 15950

1

S.P of the TV =  $15950 \times (1 + \frac{15}{100})$

2

=  $15950 \times \frac{115}{100}$

= Rs. 18342.50

1

6 of 6

Answer key for Half-Yearly Examination - 2019

Sub: Science

Class - VIII

Set A

Marks: 100

ANSWER KEY Set A  
Gr. A

- 1.
- (i) नीला ग्रह / Blue Planet — (2)
- (ii) 670 / 8 nos — (2)
- (iii) बृहस्पति / Jupiter — (2)
- (iv) 670 दिन / 365 days — (2)
- (v) मिथ्या / False — (2)
- 2.
- (i) कृषक / Farmer — (1)
- (ii) दूध / Milk — (1)
- (iii) पृथिवी / Earth — (1)
- (iv) दिन / Day — (1)
- 3.
- (i) मिथ्या / False — (1)
- (ii) सत्य / True — (1)
- (iii) सत्य / True — (1)
- 4.
- (i) आम्र / Mango — (1)
- (ii) पत्ता / Leaf — (1)
- (iii) बूँट / Duck — (1)



Gr B

5.

- (i) ଭାସ / float — (1)
- (ii) ମାନୁଷ / Man. — (1)
- (iii) କଳ୍ପିତ ଚାକ୍ଷୁ / chain pump method — (1)
- (iv) (c) ପ୍ରାକୃତିକଜୀବ / Protozoa. — (1)
- (v) (d) ମାଳିନୀକାୟା ଶରୀର / Female Anopheles mosquito — (1)
- (vi) ମିଥ୍ୟା / False. — (1)
- (vii) ସତ / True. — (1)
- (viii) ଲାକ୍ଟୋବ୍ୟାକ୍ଟିରିଆ ବକ୍ଟେରିଆ / Lactobacillus bacteria — (1)
- (ix) ପାରଦ / Mercury — (1)
- (x) ନାଇଲନ / Nylon — (1)
- (6) Ans of Qn. NO. (6) Refer to Text Book.
- (7) Reference Text Book
- (5) For each application — 1 mark

(ii) Definition — 2 marks  
Example — 1 mark

(iii) For each difference 1 mark.

8. Ref. - Text Book. (Marks distribution according to Question)

Gr-C

9.

(i) सख/True

(ii) सख/True

(iii) गलत/False

(iv) सख/True

(v) कोयल/kerosene.

(vi) Endemic Species

(vii) Endemic Species

(viii) बिटुमिन/ bitumen.

(ix) द्रव/liquid.

(x) Answers of 10, 11, 12, According to Text Book.

(i)

(ii)

(iii)

} Each will carry 2 marks.

(iv) For naming each activity 1 mark

(v) } 2 marks each.  
vi }

(11) Definition of antibiotic only — 3 marks

(12) carrying 3 marks

(13) Picture — 1 mark

Identification — 2 marks

(14) a) Difference — 3 marks

b) Definition — 2 marks

(15) Reasons — 3 marks

(16) a) Reasons — 2 marks

b) Explanation — 3 marks

১/ (ক) বিজ্ঞান (খ) প্রত্নতত্ত্ব (গ) বাতাস  
(ঘ) খেলার মাঠ (ঙ) বসন্ত ঋতু

২/ (ক) মেলা (খ) রথ (গ) দোকান  
(ঘ) মা (ঙ) পুতুল

বিভাগ - খ

৩/ (ক) বঙ্গিমচন্দ্র চৌধুরী (খ) ১৮৬৮  
(গ) বঙ্গিমচন্দ্র চৌধুরী (ঙ) ঐতিহাসিক (চ) বঙ্গিমচন্দ্র চৌধুরী

৪) জীব জন্তি

সুন্দর

মাঝের

মাঝের

৫) আমাচ, নিঃশব্দ, সূক্ষ্মরস, স্নিগ্ধ, গোড়হাও

৬) (ক) মত (খ) স্মিতা (গ) মত (ঘ) স্মিতা (ঙ) মত

৭) অশ্রু, কাছ, ময়র, অশ্রু, বিদেহ

৮) ক্রিয়াকর্ম, বদ, চান্দী, সান্নিধ্য, স্নেহ

৯) (ক) বঙ্গিমচন্দ্র চৌধুরী

(খ) একক ব্যক্তি-বিশ্ব জুড়ে

(গ) যে উচ্চ

(ঘ) সঙ্ঘবন্দন

(ঙ) চৈত্র মাসে বসন্ত ঋতু

(চ) কোরব - মানুষদের অস্তিত্বের

স্বার্থের

(ছ) নিষাদরস বিরম্বিত

(জ) জন্ম

(ঝ) স্নেহ (ঞ) সঙ্ঘবন্দন

বিভাজ - ৯

২০। দক্ষাকোটি, বিবিমিষেব, দায়ে হেঁটে,  
খাটি, ২০১৩/ আচমকা।

২২) ভোলো শব্দ - ভোলো ও ভন্দ - ভাষা  
দ্বন্দ্বভাষা

ও ভন্দ - ভন্দ ভন্দ - ভন্দ

স্বর্ন দীপ - স্বর্নের দ্বারা তৈরি দীপ ভন্দ  
বা  
স্বর্ন নির্মিত দীপ (কর্মসূত্র ভন্দ)

২৩। কোনো কল্প বুদ্ধির বালক শ্রী রামকৃষ্ণের  
আদ্বৈত মতবাদে জ্ঞানের নিন্দা করত। একদিন  
মে জীতার খুব সুখ্যাতি করে। তাতে  
শ্রী রামকৃষ্ণ বললেন, বুদ্ধি, কোনো হিংসে  
দ্বন্দ্বিত জীতার সুখ্যাতি করেছে, তাতে এও  
সুখ্যাতি করল।

[বিঃদ্র: - কদম্ব, বিদ্যাবীত শব্দ, লিঙ্গ পরিবর্তন, এই সব প্রকল্পে  
কোনো বিকল্প দেওয়া হতে পারবে]

— X —

**Half Yearly Examination – 2019**

**Class – VIII**

**Sub : English**

**ANSWER KEY (Set – A)**

**Section – A**

- (1) (a) (ii) students; (b) (i) read; (c) (iii) knowledge; (d) (iv) best friends; (e) S t u d e n t;  
(2) (a) (iii) garden; (b) (iii) 20; (c) (iv) Birds; (d) (i) flowers; (e) b e a u t i f u l;

**Section - B**

- (3) (a) (i) useless; (ii) doctor; (iii) new; (iv) Hudroo;  
(b) (i) amnesia; (ii) Dr. Chanda; (iii) Ranchi; (iv) Hudroo Falls;  
(4) (a) (i) True; (ii) False; (iii) Student will get 01 mark irrespective of the answer he/she writes;  
(b) (i) Bengal; (ii) Physician; (iii) island;  
(5) (i) True; (ii) True; (iii) False;  
(6) (i) A tsunami is a very large and powerful wave caused by earthquakes under the sea.  
(ii) Bepin babu used to buy books based on crime stories, ghost stories and thrillers.  
(iii) The cricket said this when he realised that the winter is coming and he has nothing to eat. He said this because he was worried that he would die of starvation.  
(7) (i) Tilly's family came to Thailand because it was a part of their plan to celebrate Christmas. They lived in South-East of England and were vacationing in Thailand.  
(ii) Finding no food the cricket decided to go to the ant to ask for help and shelter. He promised the ant to repay the borrowed food on the next day.  
(8) (i) young/silly; (ii) her; (iii) gave; (iv) The; (v) with; (vi) was; (vii) Andaman; (viii) can;

**Section - C**

- (9) (A) (i) (c) one's own mind; (ii) (d) harmony; (iii) (b) ignorance; (iv) (d) flexible;  
(B) (i) and (ii) – *Multiple answers are expected from students.*  
(10) (i) In Bridport; (ii) Rawat; (iii) Hundred and one years old;  
(11) (i) The skylark; (ii) Zulfikar Ghose; (iii) Macavity, the mystery cat;  
(12) (i) Schools should stop treating all the learners as ordinary. They should not follow old mechanical methods of teaching. They should try to discover the hidden talent in each learner and encourage him to do his best.  
(ii) We can learn about true friendship which was between the Princess and the bird. We can also learn about the theme of liberty. The truth about freedom is expressed by the use of symbols of wings, wide blue sky, green rice growing in the fields. This ideal of the freedom is the moral lesson of the story. It is the real and true secret of happiness.  
(iii) The giant did not want to share his happiness with anybody. He wanted to enjoy his garden all alone. He did not even allow the little children to enter his garden and play there. That is why the Giant is called selfish.  
(13) (i) Imperative Sentence; (ii) me; (iii) into; (iv) Past perfect;

(14)  
(a)

To
The Headmaster
School's Name
Subject
Respected Sir
Content
Date, Place

Complementary Close

Or

(b)

Sender's Address
Receiver's Address
Date
Salutation
Content
Complementary Close

(15)

Title of the Story

Content

(16)

Title of the Paragraph

Content

[N.B.:- In case of Q. No. 14, 15 and 16 multiple types of answers are expected from the students.]