o. of Questions: 150

Time: 2 Hrs. 30 Minut

OTET 2016 (2nd)

PAPER - I

Booklet No.

Question

Full Marks: 150

SET

Roll No.

## ପରୀକ୍ଷାର୍ଥୀଙ୍କ ନିମନ୍ତେ ନିର୍ଦ୍ଦେଶାବଳୀ

20

5

- ୧। ପରୀକ୍ଷାର୍ଥୀଙ୍କର ପ୍ରାର୍ଥ୍ୟ ସାମୟିକ (ଅହାୟୀ) । ଯଦି କୌଣସି ପରୀକ୍ଷାର୍ଥୀ ଦେଇଥିବା ତଥ୍ୟ ଭୁଲ, ମିଥ୍ୟା କିୟା ଅସମୂର୍ଷ ବୋଲି ଯେକୌଣସି ସମୟରେ ପ୍ରମାଣିତ ହୁଏ, ତେବେ ତାଙ୍କର ପାର୍ଥ୍ଡ ନାକଚ ହୋଇଯିବ ।
- ୨। ଓ.ଏମ୍.ଆର୍. ଫର୍ଦ୍ଦରେ ଥିବା ବ୍ରଟିକୁ କଳା/ନୀଳ ବଲ୍ ପଏଷ କଲମ ଦାରା ସମ୍ପର୍ଶରୂପେ କଳା/ନୀଳ କରିବାକ ହେବ । ଆଂଶିକ କଳା କରାଯାଇଥିଲେ ତାହାର ମଲ୍ୟାୟନ ହେବନାହିଁ ।
- ୩୮ ଦୁଇଟି କିୟା ଅଧିକ ବୃଉଗୁଡ଼ିକୁ ସମୂର୍ଷ/ଆଂଶିକ କଳା/ନୀଳ କରାଯାଇଥିଲେ ତାହାର ମଧ୍ୟ ମୂଲ୍ୟାୟନ ହେବନାହିଁ ।
- ୪। କଳା/ନୀଳ କରାଯାଇଥିବା ବ୍ରକୁ 'x' ଚିହୁ ହାରା/ କଟାକଟି କରି/ଧଳା ରଙ୍ଗ ଲଗାଇ/ରବର/ବୃତ ହାରା ଲିଭାଲିଭି କରି କିୟା ଯେକୌଶସି ଉପାୟରେ ଉର୍ବର ବଦଳାଇ ଥିଲେ ଡାହାର ମୂଲ୍ୟାୟନ ହେବନାହିଁ ।
- ୫। ଏହି ପୁଶ୍ରପତ୍ତ ପୁଷିକାଟିକୁ ନିର୍ଦ୍ଦେଶ ନପାଗବା ପୂର୍ବରୁ ଖୋଲାଯିବ ନାହିଁ । ନିଜର ରୋଲ୍ ନୟର ଠିକ୍ ଭାବରେ ଏହି ପ୍ରଥିକାରେ ଏବଂ ଓ.ଏମ୍.ଆର୍. ଫର୍ଦ୍ଦରେ ଲେଖିବା ଆବଶ୍ୟକ ।
- ୬। ଏହି ପୃଷିକାରେ ଲିଖ୍ଡ ପୃଷା ସଂଖ୍ୟା ଏବଂ ପୃଶ୍ୱସଂଖ୍ୟା ଓ ସେଗ୍ଡିକର କୁମିକ ନୟର ଭଲ ଭାବରେ ଯାଞ୍ଚ କରିନିଅରୁ। ଯଦି କିଛି ତ୍ରଟି ଥାଏ ତେବେ ପାଞ୍ଚ ମିନିଟ୍ ମଧ୍ୟରେ ଏହା ବଦଳରେ ଅନ୍ୟ ଏକ ଠିକ୍ ପୃଷ୍ତିକା ନିରୀକ୍ଷକଙ୍କଠାରୁ ସଂଗ୍ରହ କରନ୍ତ । ପାଞ୍ଚ ମିନିଟ୍ ପରେ କୌଣସି ଆପରି ଗ୍ରହଣ କରାଯିବ ନାହିଁ ।
- ୭। ଓଡ଼ିଶା ପରୀକ୍ଷା ପରିଚାଳନା ଆଇନ, ୧୯୮୮ ଅନୁସାରେ 7. ପରୀକ୍ଷା ପରିଚାଳନା କରାଯିବ ।

## Instructions to the Candidate

- The admission to the examination provisional. In the event of any information furnished by the candidate found false incorrect/incomplete detected at any stage, the candidature shall be rejected.
- Darken the circles in the OMR Sheet completely with Blue / Black ball point pen only. Partial darkening shall not be evaluated.
- 3. Darkening two or more circles completely/ partially shall not be evaluated.
- 4. Changing the darkend circle in any manner puting 'x' mark/using white fluid erasing by rubber/blade etc. shall not be evaluated.
- This question booklet shall not be opened until instructed. Write your Roll No. correctly in this booklet as well as in the OMR answer sheet.
- The candidate should check the No. of printed pages and Questions alongwith their Serial Nos, In case of any discrepancy found exchange the defective one and collect another correct one from the invigilator within five minutes and thereafter no complaint shall be entertained
- The examination shall be conducted as per the Odisha Examination Act, 1938.

## **ENGLISH**

61.	Which of the following is correctly punctuated?						
	(A)	He said to me Good luck!					
1	(B)	(B) He said to me "Good luck!"					
(1)	(3)	He said to me, "Good luck!"					
	(D)	He said to me, "good luck	!"				
62.	Ever	y boy and every girl	_ given a p	acket of sweets.			
X	(A)	was	(B)	were			
	(C)	are 🗸	(D)	have been			
63.	Thou	ugh he is seventy, he	his childh	good clearly.			
1	(A)	remembered	(B)	was remembering			
U	0	remembers	(D)	had remembered			
64. Some of the furniture broken.							
	(A)	has been	(B)	have been			
	(C)	are	(D)	were			
65. Mr. Tripathy is UNESCO worker.							
	(A)	a	(B)	an Y			
	(C)	the	(D)	any			
66.	It is a	table.					
	(A)	large wooden round	(B)	round wooden large			
	(C)	wooden round large	(D)	large round wooden			
67.	67. Mr. Mahapatra was really lucky to catch the train to Mumbai.			rain to Mumbai.			
	When he reached the station, the train						
	(A) 1	had left	(B)	has left			
	0	was leaving	(D)	is leaving			

68.	The room is full of gas.	
	You light a match.	
1	(A) needn't	(B) mightn't
2/	Comustn't	(D) won't
69.	Do you work holiday ?	
	(A) of	(B) on
	(C) at -	(D) in
70.	They walked	
	(A) to the theatre in a hurry last i	night
	(B) to the theatre in hurry last ni	ght w
	(C) in a hurry to the theatre last	night
	(D) to the theatre last night in a l	nurry
71.	When a part of the word is spoke	en with extra force, it is called
	(A) pause	(B) intonation
	stress	(D) pronunciation
72.	In order to assess the holistic	development of the learner we have to
	undertake	
	(A) Unit End Evaluation	
	(B) Month End Evaluation	
	(C) Term End Evaluation	
	Continuous and Comprehe	nsive Evaluation
72	transcription of the	word Love is
73.		(B)   e ~ v   L
1	(A)   \(\ell \) \\ (C)   \(\ell 3:\times \)	(D)   e 2 v
U	(C)   \( \extstyle 3:\times \)	(Turn over)
		1391

SET-B

(Continued)

74.	Rhy	ming words are associated with			
		prose	(BV)	poetry	
			(0)		
	(C)	story	(D)	drama	
75.	Find	I the statement which is not approp			
	(A)	English is taught in India as a lang			
	(B)	English is taught in India as a lan	guage o	of comprehension.	
	(C) English is taught in India as a school subject.				
		English is taught in our schools a	s a fore	ign language.	
76.	Whi	ich of the following is suitable for l	earners	at elementary level?	
	(A)	Controlled writing	(B)	Imaginative writing	
	(C)	Free writing	(D)	Creative writing	
77.	Whi	ich is the last macro skill in natura	sequer	nce of learning a language?	
	(A)	writing	(B)	listening	
	(C)	reading	(D)	speaking	
78.	Gue	essing the meaning of difficult wor	ds in a	text is a subskill of	
	(A)	listening	(B)	speaking	
	(6)	reading	(D)	writing	
79.	·	One, two;			
19.		Buckle my shoe.			
		Three, four;			
		Knock at the door.			
	Children sing this rhyme to enjoy and learn –				
	(A)		(B)		
	(A)				
	(	numbers	(D)	spennig	

[40]

SET-B

(B) cluster

(C) intonation (D) chunking	
Read the passage carefully and answer the question	s (No. 81 to
No. 85) that follow choosing the correct alternatives g	iven:
A French general was, once, conducting his army through a pass, in a range of high mountains. He exhorted his so patiently, the fatigues of the march. "It is easy for you to to one of the soldiers near him, to his companions, "you are fine horse, but we poor wretches have to tramp on foot overheard the remark, and insisted on discontened soldier to but, scarcely had he mounted, when a shot from the mounted.	alk," muttered e mounted on a calc." The general aking his place,
and killed him.	
81. The passage describes:	
(A) a revolt in the army (B) quarreling of	of soldiers
(C) an altercation with the general (D) a fateful even	ent
22 Avaish of the following statements is correct?	
The general gave his horse to the soldier.	
shot the soldier for grumbling.	
(B) The general short are  (C) The general didn't hear the remark of the soldier.	
(C) The general gave a warning to the soldier.  (D) The general gave a warning to the soldier.	
(D) The general gave a mined in the passage, was	
(D) The general gaves.  83. The general, described in the passage, was  (B) selfish	
(A) cruel (D) considerat	te
(C) patient [41]	(Turn over)
SET-B	

80. Dividing a sentence into sense groups is called \_\_\_\_\_\_.

(A) stroke

8	84. Which of the following words in the passage means 'talk indistinctlusually in a low voice'?				indistinctly	
	(A)	exhort			mutter	
	(C)	mount		(D)	insist	
8.	5. The	incident took place in				
T	(A)	Germany			France	
U	(C)	England		(D)	India	
	Read No.	d the passage carefu 90) that follow choosi	lly and and	swer t	the questions ternatives give	(No. 86 to
	Toler and c	rance means magnanim consideration for others	ity and pation.  It is a virtue	ence. T	olerance is a sig	gn of respect
	When someone points out your mistakes, don't lose your temper. Resist the urge to quarrel with the other person. Instead, ask yourself, "Am I wrong? If the other person, perhaps, is right?"					
Tolerance makes a person develop wider vision. Don't allow yourself to be disturbed by small irritations. Learn to accept what is disagreeable. You will then enjoy greater freedom of thought and expression.  Indeed, developing tolerance is not easy but worth trying. Once you have learnt the art of loving and giving you can easily be tolerant.					reeable. You	
	reason	nd towards the weak as of religion, caste and t you can broaden your	creed. Lear	Never	discriminate ise above narro	people for w royalties
86.	This pa	assage talks about				
	(A) re	espect		(B) co	onsideration	
	(C) vi	rtue 🗸 🗡	(		lerance	
SET	-В		[42]			(Continued)

87.	If someone points out our mistakes,		
	(A)	we should get angry	
	(B)	we should not control ourselves	
2	(C)	we should not tolerate	
1)	0	we should examine whether we are	right or wrong —
88.	One	can enjoy greater freedom and expr	ression when
	(A)	he is easily irritated by small incide	nts
	(B)	he does not accept disagreeable th	ings
P	(C)	he easily becomes worried	
0	(D)	he accepts disagreeable things	
89.	Ap	erson can easily be tolerant if he kn	ows
Ti		how to argue with others	By the art of loving and giving
1	1	how to escape himself	(D) the art of discrimination
		u' in the last sentence refers to	
1	1.40		(B) the readers
1	(A)	the writer	(D) the students
	(C)	the teachers [43]	(Turn over)

SET-B

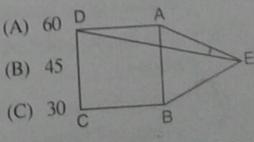
## ଗଣିତ MATHEMATICS

- 91. କେଉଁଟି ଗଣିତ ଶିକ୍ଷା ଅନ୍ତର୍ନିହିତ ସଂରଚନା ସମ୍ପର୍କିତ ନୁହେଁ ?
  - (A) ନିର୍ଦ୍ଦିଷ୍ଟ କ୍ରମ
  - (B) ବିଶ୍ଲେଷଣ ଓ ସଂଶ୍ଲେଷଣ
  - (C) ସଂକ୍ଷିପ୍ତ ଅଭିବ୍ୟକ୍ତି
  - (D) ନିର୍ଦ୍ଦିଷ୍ଟତା
- 92. କେଉଁଟି ଏକ ପର୍ଯ୍ୟବେକ୍ଷଣ କୌଶଳ ଅଟେ ?
  - (A) ମାନକୀକୃତ ପରୀକ୍ଷଣ
  - (B) ରେଟିଂ ୟେଲ
  - (C) ସାକ୍ଷାତକାର
  - (D) ପ୍ରଶ୍ୱଗୁଛ
- 93. ନିମ୍ନୋକ୍ତ ଶୈକ୍ଷିକ ଉଦ୍ଦେଶ୍ୟଗୁଡ଼ିକ ମଧ୍ୟରୁ କେଉଁଟି ଅନ୍ୟ ତିନୋଟି ଠାରୁ ଭିନ୍ନ ?
  - (A) ଠିକ୍ ଉତ୍ତର ଚୟନ
  - B) ବିନ୍ଦୁ ସଂଯୋଗଦ୍ୱାରା ଜ୍ୟାମିତିକ ଚିତ୍ର ଅଙ୍କନ
  - (C) ସାନରୁ ବଡ଼ କ୍ରମରେ ସଂଖ୍ୟାଗୁଡ଼ିକର ସଜ୍ଞାକରଣ
  - (D) ମୌଳିକ ସଂଖ୍ୟାଗୁଡ଼ିକର ପୃଥକୀକରଣ

- 91. Which is not connected with internal structure of Mathematics?
  - (A) Specific sequence
  - (B) Analysis and synthesis
  - (C) Precise expression
  - (D) Exactness
- 92. Which is an observational technique?
  - (A) Standardised Achievement test
  - (B) Rating scale
  - (C) Interview
  - (D) Questionnaire
- 93. Which instructional objective is different from the other three?
  - (A) Recognition of correct answer
  - (B) Drawing geometrical figures by dot joining
  - (C) Arranging numbers in ascending order
  - (D) Separation of prime numbers

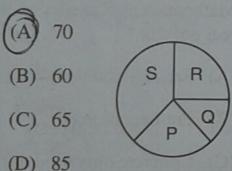
- 94. ଗଣିତ ଶିକ୍ଷାଦାନ ନିମତେ ଶୈକ୍ଷିକ ଭଦ୍ଦେଶ୍ୟଗୂଡ଼ିକର କେଉଁ କ୍ରମଟି ଠିକ୍ ?
  - (A) ବୋଧ, ବିଶ୍ଲେଷଣ, ଜ୍ଞାନ ଓ ପ୍ରୟୋଗ
  - (B) ଜ୍ଞାନ, ପ୍ରୟୋଗ, ବୋଧ ଓ ବିଶେଷଣ
  - (C) ପ୍ରୟୋଗ, ବିଶ୍ଲେଷଣ, ଜ୍ଞାନ ଓ ବୋଧ
  - 📵 ଜ୍ଞାନ, ବୋଧ, ପ୍ରୟୋଗ ଓ ବିଶ୍ଲେଷଣ
  - 95. ବୌଦ୍ଧିକ ବିକାଶର କେଉଁ ପର୍ଯ୍ୟାୟରେ ଶିକ୍ଷାର୍ଥୀ ବାୟବ ବସ୍ତୁ ସାହାଯ୍ୟରେ ଗାଣିତିକ ଜ୍ଞାନ ଆହରଣ କରିଥାଏ ?
    - (A) ସଂବେଦୀକାରକ
    - (B) ପ୍ରାକ୍ ସଂକାର୍ଯ୍ୟଧର୍ମୀ
    - (୧) ଯୁଳ ସଂକାର୍ଯ୍ୟଧର୍ମୀ
    - (D) ବିମୂର୍ତ୍ତ ସଂକାର୍ଯ୍ୟଧର୍ମୀ
    - 96. ଦର ଚିତ୍ରରେ ABCD ଏକ ବର୍ଗଚିତ୍ର ଏଟଂ ABE ଏକ ସମବାହୁ ଦ୍ରିଭୁଳ । ĀE ଅଙ୍କନ କରାଯାଇଛି । ∠AEDର ପରିମାଣ କେତେ ଡିଗ୍ରୀ ?
      - (A) 60
        (B) 45
        (C) 30
        (D) 15

- 94. Which is the correct order of instructional objectives of teaching Mathematics?
  - (A) Understanding, Analysis, Knowledge and Application
  - (B) Knowledge, Application, Understanding and Analysis
  - (C) Application, Analysis, Knowledge and Understanding
  - (D) Knowledge, Understanding, Application and Analysis
  - 95. At what stage of cognitive development, the child acquires Mathematical Knowledge using real objects?
    - (A) Sensory motor
    - (B) Pre-operational
    - (C) Concrete operational
    - (D) Formal operational
    - 96. In the given figure, ABCD is a square and AEB is an equilateral triangle. AE is drawn. What is the measure of the angle ∠AED in degree?



(D) 15

97. ଗୋଟିଏ ବିଦ୍ୟାଳୟରେ ଫୁଟବଲ୍, କ୍ରିକେଟ, ଭଲିବଲ ଓ ବ୍ୟାଡ୍ମିଷ୍ଟନ, ଏହି ଚାରୋଟି ଖେଳର ବ୍ୟବସ୍ଥା ଅଛି ଏବଂ ପ୍ରତ୍ୟେକ ଛାତ୍ର/ଛାତ୍ରୀ କେବଲ ଗୋଟିଏ ଖେଳ ଖେଳିବାର ନିୟମ ଅଛି । ଦତ୍ତ ବୃତ୍ତଲେଖରେ ଫୁଟବଲ୍ ଖେଳାଳି, କ୍ରିକେଟ୍ ଖେଳାଳି, ଭଲିବଲ୍ ଖେଳାଳି ଓ ବ୍ୟାଡ୍ମିଷ୍ଟ ଖେଳାଳି ମାନଙ୍କର ସଂଖ୍ୟାକୁ ଯଥାକୁମେ P, Q, R ଓ S ହାରା ସୂଚିତ କରାଯାଇଛି । P, Q, R କୁ ସ୍ତାଉଥିବା ବୃତ୍ତକଳାର ସମ୍ପୃକ୍ତ ଚାପ ତ୍ରୟ ଡିଗ୍ରୀ ପରିମାପଗୁଡ଼ିକ ଯଥାକ୍ରମେ 100°, 50° ଓ 70° । ଯଦି ଫୁଟବଲ୍ ଖେଳୁଥିବା ପିଲାସଂଖ୍ୟା ଠାରୁ କ୍ରିକେଟ୍ ଖେଳୁଥିବା ପିଲାସଂଖ୍ୟା 25 କମ୍ ହୁଏ, ତେବେ ବ୍ୟାତ୍ମିଷ୍ଟନ ଖେଳୁଥିବା ପିଲାସଂଖ୍ୟା କେତେ ?



- ହିଷ୍ଟୋଗ୍ରାମ୍ ପ୍ରସ୍ତୁତିରେ ନିମ୍ନସ୍ଥ କେଉଁ ଉକ୍ତିଟି ଭୁଲ୍ ?
  - ଉପରେ ନିର୍ଭର କରେ ।
  - **ୟୟର ଉଚ୍ଚତା ସଂପ୍**ର ସଂଭାଗର ବାରୟାରତା ଉପରେ ନିର୍ଭର କରେ ।
  - (C) କ୍ରମିକ ୟୟଗୁଡ଼ିକୁ ଲଗାଲଗି କରି ଅଙ୍କନ କରାଯାଏ ।
  - ହିଷ୍ଟୋଗ୍ରାମ୍ର ପ୍ରଥମ ଷୟ ସର୍ବଦା y-ଅକ୍ଷକୁ ଲାଗି ରହିଥାଏ ।

A school has the provisions for 97. four games, such as foot ball, cricket, volley ball and badminton. The school also has the rule that each student is to play only one of the above games. The given pie-chart shows the number of students playing each of the four games where P, Q, R and S denote the number of students playing foot ball, cricket, volley ball and badminton respectively. The degree measures of the arcs of the concerned sectors representing P, O and R are 100°. 50° and 70° respectively. If the number of students playing cricket is less than the number of students playing foot ball by 25, then what is the number of students that play badminton?

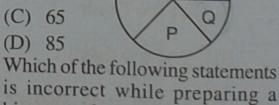
(A) 70

(B) 60

(C) 65

(D) 85

98.



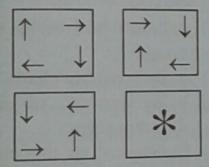
R

S

- histogram? (A) The width of a column depends upon the concerned class interval.
- (B) Height of a column depends on the frequency of the concerned class.
- The successive columns are (C) drawn adjacent to each other.
- The first column of a histogram is always drawn adjacent to the y-axis.

- 99. ଗୋଟିଏ ତଥ୍ୟାବଳୀର କ୍ଷୁଦ୍ରତମ ଲବ୍ଧାଙ୍କ 8 ଓ ବୃହତ୍ତମ ଲବ୍ଧାଙ୍କ 70 । ଏହି ତଥ୍ୟାବଳୀ ଲାଗି ଏକ ଭାଗ ବିଭକ୍ତ ବାରୟାରତା ସାରଣୀ ପ୍ରସ୍ତୁତି କରାଯିବ । ଯଦି ସମସ୍ତ ସଂଭାଗ ସମାନ ବିସ୍ତାର ବିଶିଷ୍ଟ ହୋଇଥାଏ ଏବଂ ପ୍ରଥମ ଦୁଇଟି ସଂଭାଗ 5-10, 10-15 ହୁଏ, ତେବେ ପ୍ରସ୍ତୁତ ହୋଇଥିବା ସାରଣୀରେ ସଂଭାଗ ସଂଖ୍ୟା କେତ୍ର ହେବ?
  - (A) 11
  - (B) 12
  - (C)) 13
  - (D) 14

100.



ଉପରିଷ ସଂରଚନାରେ ତାରକା (\*) ଚିହ୍ନିତ ଷାନରେ ନିମ୍ନୟ କେଉଁ ଚିତ୍ରଟି ରହିବ ?

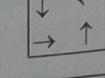
(A)

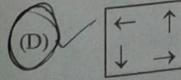


(B)



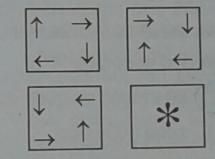
(C)





- 99. The lowest and highest scores in a data are 8 and 70 respectively and a frequency distribution with class intervals is to be prepared for the data. If all the classes are of equal inervals and the first two classes are 5-10 and 10-15, what will be number of classes in the distribution?
  - (A) 11
  - (B) 12
  - (C) 13
  - (D) 14

100.



In the above pattern, there is a box with a star (\*) mark. What will be the suitable figure for the star marked place?

(A)



(B)



(C)



(D)



- 101. ପ୍ରାଥମିକ ସ୍ତରରେ କ୍ୟାମିତି ପଢାଇବା ପାଇଁ କେଉଁ । 101. What method is mostly followed ପଦ୍ଧତି ମୁଖ୍ୟତଃ ବ୍ୟବହାର କରାଯାଏ ?
  - (A) ବିଶ୍ଲେଷଣ ଓ ସଂଶ୍ଲେଷଣ
  - (B) ଆରୋହ ଓ ଅବରୋହ
  - (C) ବିଶ୍ୱେଷଣ ଓ ଆରୋହ
  - (D) ସଂଶ୍ଲେଷଣ ଓ ଅବରୋହ
- ବାୟବ ଧାରଣା ଦେବାପାଇଁ ମୁଖ୍ୟତଃ କେଉଁଟି କରାଯିବା ଉଚିତ ?
  - (A) କଳାପଟାରେ ଚିତ୍ର ଅଙ୍କନ କରିବା
  - (B) ଚାର୍ଟ ପ୍ରଦର୍ଶନ କରିବା
  - (୯) ବିଭିନ୍ନ ଆକୃତିର ବୟୁ ପ୍ରଦର୍ଶନ କରିବା
  - (D) ମତେଲ୍ ପ୍ରଦର୍ଶନ କରିବା
- 103. ଗୋଟିଏ ଶିଶୁ ଗୁଣନ ପ୍ରକ୍ରିୟାରେ ବାରୟାର ଭୁଲ୍ କରୁଛି । ଏହି ଭୁଲ୍ର କାରଣ ଜାଣିବା ପାଇଁ କେଉଁ ପ୍ରକାର ପରୀକ୍ଷଣ ଆବଶ୍ୟକ ?
  - ନିଦାନାମ୍ବକ
  - ସମାସ୍ଟିସ୍ଟକ
  - ଗଠନମଳକ
  - (D) ଏ ସମୟ
- 104. କୁ ହ୍ୱାରା ଭାଗ କଲେ ମିଳେ । ଏହା କି ପ୍ରକାର ପ୍ରଶ୍ ?
  - ମୁକ୍ତ ଉତ୍ତରମଳକ
    - (B) ନିର୍ଦ୍ଦିଷ ଉଉରମ୍ଳକ
    - (C) ନିର୍ବାଚନ ମୂଳକ
    - (D) ବହୁ ବିକଳ୍ପ

- for teaching Geometry at the primary stage?
  - (A) Analysis and Synthesis
  - (B) Inductive and Deductive
  - (C) Analysis and Inductive
  - (D) Synthesis and Deductive
- 102. What should be done to develop the concept of different geometrical shapes at the lower primary stage?
  - (A) to draw figures on the blackboard
  - to demonstrate charts (B)
  - (C) to demonstrate objects of different shapes
  - (D) to demonstrate models
- 103. A child is always making mistake in multiplication. What type of test should be done to know the cause of this?
  - (A) Diagnostic
  - (B) Summative
  - (C) Formative
  - (D) All of these
- 104. —, when divided by gives -What type of question is it?
  - (A) Free response
  - (B) Fixed response
  - (C) Recognition
  - (D) Multiple choice

- 105. ଗଣିତର ସହପାଠ୍ୟକ୍ରମ ଦୃଷ୍ଟିକୋଣରୁ କେଉଁଟି ଅନ୍ୟ ତିନୋଟି ଠାରୁ ଭିନ୍ନ ?
  - (A) ଗଣିତ ମେଳା
  - (B) ଗଣିତ ପ୍ରକଳ୍ପ
  - (C) ଗଣିତ କୁବ
  - (D) ଗଣିତ କୁଇଜ
- 106. ଗୋଟିଏ ଆୟତଘନ ଆକୃତି ବିଶିଷ ପାତ୍ରର ଦୈର୍ଘ୍ୟ, ପ୍ରସ୍ଥ ଓ ଉଚ୍ଚତା ଯଥାକ୍ରମେ 8 ମି. 6 ମି. ଓ 4 ମି. । 192 କି.ଗ୍ରା. ଓଚ୍ଚନର ଏକ ତରଳ ପଦାର୍ଥ ଦ୍ୱାରା ପାତ୍ରଟି ପୂର୍ଷ ହୁଏ । ତେବେ 5 ମି. ଦୀର୍ଘ୍ୟ ବାହୁ ବିଶିଷ ସମଘନ ଆକୃତିର ପାତ୍ରକୁ ସେହି ତରଳପଦାର୍ଥ ଦ୍ୱାରା ପୂରଣ କରିବା ପାଉଁ କେତେ କି.ଗ୍ରା. ତରଲ ପଦାର୍ଥ ଆବଶ୍ୟକ ? (ପାତ୍ରଦ୍ୱୟର ଦର ମାପ ହେଉଛି ପାତ୍ରଦ୍ୱୟର ଭିତରର ମାପ)
  - (A) 25
  - (B) 35
  - C 125
  - (D) 135
- 107. ଗୋଟିଏ ବାଲ୍ଟି, 3.52 କିଲୋଲିଟର କଳରେ ପୂର୍ଣ ହୁଏ । ବାଲ୍ଟିର କଳଧାରଣ କ୍ଷମତା ମିଲିଲିଟରରେ କେତେ ହେବ ?
  - (A)  $3.52 \times 10^4$
  - (B)  $3.52 \times 10^5$
  - (C) 3.52  $\times$  10<sup>6</sup>
  - (D) ଏମାନଙ୍କ ମଧ୍ୟରୁ କୌଣସିଟି ନୁହେଁ

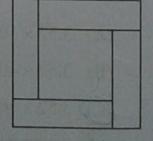
- 105. Which one is different from the other three from Co-scholastic aspect of Mathematics?
  - (A) Mathematics fair
  - (B) Mathematics project
  - (C) Mathematics club
  - (D) Mathematics quiz
- 106. The weight of a certain liquid material that fills in a vessel in the shape of a cuboid of length 8m, breadth 6m and height 4m is 192 kg. What weight, in kg, of the same liquid material is necessary to fill in a cubical vessel of side 5m?

(All measurements given for the vessels are their inner measurements)

- (A) 25
- (B) 35
- (C) 125
- (D) 135
- 107. A bucket can be completely filled with 3.52 kilolitre of water. What is the capacity of bucket in mililitre?
  - (A)  $3.52 \times 10^4$
  - (B)  $3.52 \times 10^5$
  - (C)  $3.52 \times 10^6$
  - (D) None of these

- 108. ଯଦି ଗୋଟିଏ ସମଘନର ଆୟତନ 0.000064 ଘନମିଟର ହୁଏ, ତେବେ ଏହାର ବାହୁର ଦୈର୍ଘ୍ୟ କେତେ ମିଟର ?
  - (A) 0.4
  - (B) 0.04
    - (C) 0.004
    - (D) 0.0004
- 109. ଏକ ବର୍ଗଆକୃତି ବିଶିଷ୍ଟ କ୍ଷେତ୍ରର କ୍ଷେତ୍ରଫଳ 400 ହେକ୍ଟେୟାର । ଏହାର ପରିସୀମା କେତେ ମିଟର?
  - (A) 400
  - (B) 800
  - (C) 4000
  - 8000
- 110. ଚାରୋଟି ସର୍ବସମ ଆୟତଆକୃତିର କାଗଳ ଖଣ୍ଡକୁ ଦର ଚିତ୍ରରେ ଏପରି ସକାଇ ରଖାଯାଇଛି ଯେପରି ସେଗୁଡ଼ିକର ବାହାର ଧାର ଓ ଭିତର ଧାର ପ୍ରତ୍ୟେକ ଗୋଟିଏ ଗୋଟିଏ ବର୍ଗଚିତ୍ର ଗଠନ କରିଛି । ପ୍ରତ୍ୟେକ ଆୟତଚିତ୍ରର ପରିସୀମା 40 ସେ.ମି. ହେଲେ, ବଡ଼ ବର୍ଗକ୍ଷେଦ୍ରର କ୍ଷେଦ୍ରଫଳ କେତେ ବର୍ଗ ସେ.ମି. ?
  - (A) 200
  - (B) 400
  - (C) 800
  - (D) 160Q

- 108. If the volume of a cube is 0.000064 cu.m, then what is the length of its side in metre?
  - (A) 0.4
  - (B) 0.04
  - (C) 0.004
  - (D) 0.0004
- 109. The area of a square field is 400 hectares. What is its perimeter in metres?
  - (A) 400
  - (B) 800
  - (C) 4000
  - (D) 8000
- of paper are arranged to form the given figure in which the outer edges form a square and the inner edges also form a square. If the perimeter of each rectangular sheet is 40 cm, then what is the area of the big quare in cm?
  - (A) 200
  - (B) 400
  - (C) 800
  - (D) 1600



- (A)  $\frac{7}{12}$
- (B)  $\frac{8}{15}$
- (C)  $\frac{13}{24}$
- $\frac{25}{36}$

112.  $12\frac{1}{2} - \left[ 8\frac{1}{2} + \left\{ 9 - \left( 5 - \overline{3} - \overline{2} \right) \right\} \right]$ ସରଳୀକୃତ ମାନ କେତେ ?

- (A) -2
- (B) -1
- (C) 1
- (D) 2

113. ନିମ୍ନସ୍ଥ କେଉଁଟି  $0.2ar{3}$  ର ପରିମେୟ ବୂପ ଅଟେ ?

- (B)  $\frac{23}{90}$
- (C)  $\frac{21}{100}$
- (D)  $\frac{23}{100}$

OTET-P-I/16 (2nd)

111. Which of the following is a rational number that lies between  $\frac{2}{3}$  and  $\frac{3}{4}$ ?

- (A)  $\frac{7}{12}$
- (B)  $\frac{8}{15}$
- (C)  $\frac{13}{24}$
- (D)  $\frac{25}{36}$

112. What is the simplified value of

$$12\frac{1}{2} - \left[8\frac{1}{2} + \left(9 - \left(5 - \overline{3 - 2}\right)\right)\right]$$
?

- (A) -2
- (B) -1
- (D) 2

113. Which of the following is the rational form of 0.23?

- (A)  $\frac{7}{30}$
- (B)  $\frac{23}{90}$
- (C)  $\frac{21}{100}$
- (D)  $\frac{23}{100}$

114. କେଉଁ ସଂଖ୍ୟାଟି  $3\frac{1}{3}$ ର ଅଧାରୁ ଯେତିକି କମ୍, | 114. Which number is less than half of

 $2\frac{1}{3}$ ରୁ  $3\frac{1}{2}$  ସେତିକି ଅଧିକ ?

- (A)  $\frac{1}{6}$
- (B)  $\frac{1}{4}$
- (C)  $\frac{1}{3}$
- $\bigcirc$   $\frac{1}{2}$
- 115. ଦୁଇଟି କ୍ରମିକ ଗଣନ ସଂଖ୍ୟାର ଗୁଣଫଳ 30800 ହେଲେ, ପ୍ରଥମ ସଂଖ୍ୟାଟି କେତେ ?
  - (A) 165
  - (B) 166
  - (C) 174
  - (D) 175
- 116. △ABCର C ଶୀର୍ଷରେ ଥିବା ବହିଃୟ କୋଣର ପରିପୂରକ କୋଣ ∠A ହେଲେ, ନିମ୍ନୟ କେଉଁଟି ସତ୍ୟ ?
  - (A) 2m $\angle$ A + m $\angle$ B = 180°
  - (B)  $m\angle A = m\angle B$
  - (C)  $m\angle A + 2m\angle B = 180^{\circ}$
  - (D)  $m\angle A + m\angle B = 90^{\circ}$
- $\overline{AB}$  କୁ ଏକ ବ୍ୟାସାର୍ଦ୍ଧ ରୂପେ ନେଇ ଅଙ୍କନ କରାଯାଇପାରୁଥିବା ବୃତ୍ତ ସଂଖ୍ୟା କେତେ ?
  - (A) 1
  - B) 2
  - (C) ଅସଂଖ୍ୟ
  - (D) ବୃତ୍ତ ଅଙ୍କନ ସୟବ ନୁହେଁ

114. Which number is less than half of  $3\frac{1}{3}$  by as much as  $3\frac{1}{2}$  is more

than  $2\frac{1}{3}$ ?

- (A)  $\frac{1}{6}$
- (B)  $\frac{1}{4}$
- (C)  $\frac{1}{3}$
- (D)  $\frac{1}{2}$
- 115. If the product of two consecutive natural numbers is 30800, then what is the 1st number?
  - (A) 165
  - (B) 166
  - (C) 174
  - (D) 175
- 116. If the supplementary angle of the exterior angle at the vertex C of ΔABC is ∠A, then which of the following is true?
  - (A)  $2m\angle A + m\angle B = 180^{\circ}$
  - (B)  $m \angle A = m \angle B$
  - (C)  $m\angle A + 2m\angle B = 180^{\circ}$
  - (D)  $m\angle A + m\angle B = 90^{\circ}$
- 117. How many circles can be drawn with a given line segment AB taken as a radius?
  - (A) 1
  - (B) 2
  - (C) Infinitely many
  - (D) Not possible to draw such circle

- 118. ଏକ ସମତଳରେ ∠ABC ଅଙ୍କିତ ହୋଇଛି । ଉକ୍ତ କୋଣ ଅଙ୍କନ କରିବାହାରା ସମତଳଟି କେତୋଟି ଅଣଛେଦୀସେଟ୍ରେ ବିଭକ୍ତ ହୁଏ ?
  - (A) 1
  - (B) 2
  - 0
  - (D) 4
- 119. ନିମ୍ନସ୍ଥ କେଉଁ ଦୁଇପ୍ରକାର ଚତୁର୍ଭୁଚ୍ଚ ମଧ୍ୟରୁ ପ୍ରତ୍ୟେକର କେବଳ ଦୁଇଟି ପ୍ରତିସମ ଅକ୍ଷ ଥାଏ ?
  - (A) ସାମନ୍ତରିକ ଚିତ୍ର ଓ ଆୟତଚିତ୍ର
  - 📵 ଆୟତଚିତ୍ର ଓ ରହସ
  - (C) ଆୟତଚିତ୍ର ଓ ବର୍ଗଚିତ୍ର
  - (D) ବର୍ଗଚିତ୍ର ଓ ରହସ
- 120. ଖଣ୍ଡେ ବର୍ଗ ଆକୃତି ବିଶିଷ୍ଟ କାଗକର ପ୍ରତ୍ୟେକ ଯୋଡ଼ା କ୍ରମିକ ଧାରର ମଧ୍ୟବିନ୍ଦୁଦ୍ୱୟର ସଂଯୋଜକ ରେଖାଖଣ୍ଡ ଠାରେ କାଗଜକୁ ଭାଙ୍ଗି ଦିଆଗଲା । ଏହା ଫଳରେ ଉତ୍ପନ୍ନ ହୋଇଥିବା ବର୍ଗକ୍ଷେତ୍ରର କ୍ଷେତ୍ରଫଳ ଓ ପୂର୍ବବର୍ତ୍ତୀ ବର୍ଗକ୍ଷେତ୍ରର କ୍ଷେତ୍ରଫଳ ମଧ୍ୟରେ ଅନୁପାତ କେତେ?
  - (A) 2:1
  - (B) 1:2
  - (C) 4:1
  - (D) 1:4

- 118. ∠ABC is drawn in a plane. Into how many nonintersecting sets is the plane divided by drawing ∠ABC?
  - (A) 1
  - (B) 2
  - (C) 3
  - (D) 4
- 119. Each of which of the following two kinds of quadrilaterals has two lines of symmetry only?
  - (A) A parallelogram and a rectangle
  - (B) A rectangle and a rhombus
  - (C) A rectanlge and a square
  - (D) A square and a rhombus
- was folded along the line segments joining the mid points of each pair of consecutive sides and thereby another square shape is developed. What is the ratio between the areas of the newly formed square shape and the original square shape?
  - (A) 2:1
  - (B) 1:2
  - (C) 4:1
  - (D) 1:4