Hall Ticket Number		Q.B.No. 3 3 4 3 2 1
		Booklet Code : A
Marks: 100 Time: 120 minutes	<b>2PM3</b>	
Signature of the Candidate		Signature of the Invigilator

#### INSTRUCTIONS TO THE CANDIDATE

(Read the Instructions carefully before Answering)

- 1. Separate Optical Mark Reader (OMR) Answer Sheet is supplied to you along with Question Paper Booklet. Please read and follow the instructions on the OMR Answer Sheet for marking the responses and the required data.
- 2. The candidate should ensure that the Booklet Code printed on OMR Answer Sheet and Booklet Code supplied are same.
- 3. Immediately on opening the Question Paper Booklet by tearing off the paper seal, please check for (i) The same booklet code (A/B/C/D) on each page, (ii) Serial Number of the questions (1-100), (iii) The number of pages and (iv) Correct Printing. In case of any defect, please report to the invigilator and ask for replacement of booklet with same code within five minutes from the commencement of the test.
- 4. Electronic gadgets like Cell Phone, Calculator, Watches and Mathematical/Log Tables are not permitted into the examination hall.
- 5. **There will be** ½ **negative mark for every wrong answer.** If the response to the question is left blank without answering, there will be no penalty of negative mark for that question.
- 6. Using Blue/Black ball point pen to darken the appropriate circles of (1), (2), (3) or (4) in the OMR Answer Sheet corresponding to correct or the most appropriate answer to the concerned question number in the sheet. Darkening of more than one circle against any question automatically gets invalidated and will be treated as wrong answer.
- 7. Change of an answer is NOT allowed.
- 8. Rough work should be done only in the space provided in the Question Paper Booklet.
- 9. Return the OMR Answer Sheet and Question Paper Booklet to the invigilator before leaving the examination hall. Failure to return the OMR sheet and Question Paper Booklet is liable for criminal action.

2PM3

Booklet Code A

## SPACE FOR ROUGH WORK

Time: 2 Hours **Marks**: 100

Instructions	•
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i	) Each c	question	carries on	e mark and	1¼ negative	e mark for ever	y wrong answer.

Choose the correct or most appropriate answer from the given options to the following ii) questions and darken, with Blue/Black Ball Point Pen, the corresponding digit 1, 2, 3 or 4 in the circle pertaining to the question number concerned in the OMR Answer Sheet, separately supplied to you.

1.	"Mathematics is the queen of Sciences and Arithmetic is the queen of all mathematics" was said by							
	(1)	•	(2)	Bacon	(3)	Comte	(4)	Lindsay
2.	a)	following are a f Structure tify the correct of	b)	nportant characte Precision	ristics c)	s of mathematics. Abstractness	d)	Static
	(1)	a, b, c	(2)	a, b, d	(3)	c, b, d	(4)	a, c, d
3.	'Bral	hma Sphuta Sidd Aryabhatta	hanta' (2)	was written by Bhaskara	(3)	Shankara	(4)	Brahmagupta
4.	'Sido (1) (3)	dhanta Siromani' Srinivasa Rama Aryabhatta		vritten by	(2) (4)	Bhaskaracharya Brahmagupta		
5.	'The (1)	Famous Ramani 9271	ujan N	Tumber' is 7291	(3)	1729	(4)	1927
6.		o discovered that squares i.e. (n +			(2n +	1) can be expres	sed as	s the difference of
	(1)	Euclid	(2)	Rene Descartes	s(3)	Georg Cantor	(4)	Pythagoras
7.			-	•	_	nd non-essentials		ninking. It enables stated by Schultge
8.	Who							ised for geometric
	(1)	Eratosthanese	(2)	Pythagoras	(3)	Plato	(4)	Rene Descartes
9.	The (1)			_		nathematics. This Arabs	_	vas given by Baby Lonians
10.			prom	inent position in		ic culture is quant rn education" wa NCF-2005 NCTM		ion. Mathematics, ed by



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figure.
figure.

19. Observe the following.

> The objectives of mathematics and their specification, one each, are written in two columns, I and II.

Column I

- Understanding a)
- Attitude b)
- Knowledge c)
- Skill d)

Column II

- Draws the diagrams to scale i)
- Recalls the formula ' $\sin^2\theta + \cos^2\theta = 1$ ' ii)
- Develops the power of concentration iii)
- Compares Bar graph with Histogram for iv) similarities and dissimilarities

Match them and identify the correct alternative from the following

- (a, ii), (b, iii), (c, iv), (d, i)
- (2) (a, iv), (b, iii), (c, ii), (d, i)
- (3) (a, iii), (b, i), (c, iv), (d, ii)
- (4) (a, i), (b, iv), (c, iii), (d, ii)
- The following are three statements. Read them carefully. Identify the correct alternative 20. from the given alternatives.
  - 'Student recalls the procedure of derivation of the formula  $(-\sin^2\theta + 1 = \cos^2\theta)$ ' is the specification of knowledge objective.
  - 'Drawing a histogram' is a specification of cognitive objective. B :
  - 'Student compares' is not at all an objective.
  - If 'T' stands for 'True' and 'F' stands for 'False', Identify the correct alternative from the following:
  - (1) A-T; B-F; C-T
- (2) A-T; B-F; C-F (3) A-T; B-T; C-F
- (4) A-F; B-T; C-T
- Name the psychologist who experimentally proved that for learning mathematics, general intelligence (G factor) is sufficient and there is no necessity of special intelligence (S factor).
  - (1) Skinner
- Spearman (2)
- Sigmand Freud (4) Thorndike (3)
- On dictation, a child writes 45, in stead of 405. Further he reads it as forty (40) five (5). Committing this type of mistake is known as
  - (1) Dyscalculia
- (2) Dyslexia
- (3) Dysgraphia
- (4) Dysfacia
- Thinking about one's own issues is closely related to 23.
  - Inductive (1)

Deductive (2)

Problem-solving (3)

- Heuristic (4)
- A mathematics teacher used all the appropriate media like real objects, charts, pictures, photos etc and created interest in the students towards the new lesson. The law of learning used by the teacher is
  - (1) Law of effect

(2) Law of readiness

(3) Law of exercise

- (4) Law of preparation
- The concepts, which are formed by higher order thinking process, are 25.
  - Concrete concepts (1)

Complex concepts (2)

(3) Abstract concepts

Simple concepts (4)

26.	26. The teaching-learning strategy evolved out of the principle, "Praise and Reward encourages learning", is							
	(1) Programmed learning	(2)	Team teaching					
	(3) Peer learning	(4)	Co-operative l		g			
27.	The type of disability when the children factoristening the mathematical calculations, is		lem in reading, v	writing	, understanding or			
	(1) Reading Disability	(2)	Writing Disabi	ility				
	(3) Learning Disability	(4)	Hearing Disab	ility				
28.	If a student solves the mathematical probleviews in a novel way, then he is called a/an		different nove	l ways	and expresses his			
	(1) Creative student	(2)	Intelligent stud					
	(3) Bright student	(4)	Abnormal stud	lent				
29.	The work in mathematics that is mainly ba			Law o	of Exercise is			
	(1) Black Board work	(2)	Oral work					
	(3) Written work	(4)	Drill and Prac	tice				
30.	If the teacher uses the construction of a cocan be developed in the student are	oncept	as a teaching ap	proach	n, the abilities that			
	(1) Observation and Classification	(2)	Classification		•			
	(3) Analysis and Observation	(4)	Observation, C	lassific	cation and Analysis			
31.	The word curriculum is derived from							
	(1) Latin (2) Spanish	(3)	Greek	(4)	Hebrew			
32.	The following are main principles of curri							
	a) Child-centeredness	b)	Flexibility					
	c) Rationality	d)	Rigidity					
	Choose correct code from the following (1) a, b and d (2) a, c and d	(3)	b, c and d	(4)	a, b and c			
33.	Which one of the following is not a princi	ple of						
	(1) Principle of correlation	(2)	Principle of ps	•	•			
	(3) Principle of criterion of difficulty	(4)	Spiral and con	centric	principle			
34.	In developing a curriculum of mathematics for a level, it is necessary to follow certain steps/stages. Indicate the order of these stages using codes given below.  a) Selection and organization of contents or topics.							
	b) Formulation of objectives.							
	c) Suggesting suitable methods and tech	hniques	s of evaluation.					
	d) Suggesting appropriate learning expe	erience	S.					
	Identify the correct one.	,		,	_			
	(1) b, a, d and c (2) a, b, c and d	(3)	a, c, b and d	(4)	b, a, c and d			

35.	Which one of the following is not a criterion for selecting the appropriate learning experience in Mathematics?
	(1) Learners needs (2) Societal needs
	(3) Structure of the discipline (4) Political needs
36.	According to Downie, "Any test that measures the attainments or accomplishments of an individual after a period of training or learning is called a/an
	(1) Prognostic test (2) Diagnostic test
	(3) Achievement test (4) Attainment test
37.	In the statement of a theorem, the phrase that follows 'if part' provides  (1) The Data  (2) The data to prove the theorem  (3) The data that is required for construction
	(4) Proof
38.	Project method of teaching is the outcome of school of philosophy.  (1) Pragmatic (2) Idealistic  (3) Realistic (4) Naturalistic
39.	Which of the following pair of methods are considered to be 'complementary' to each other?  (1) Heuristic method and Lecture method  (2) Inductive method and Deductive method  (3) Project method and Laboratory method  (4) Problem solving method and Dogmatic method
40.	Read the syllogysm  Major premise: A Teacher has to behave just like an engineer, a doctor and a judge.  Minor premise: I am a teacher.  Conclusion: Therefore,
41.	In proving a theorem, if reasoning starts from conclusion and proceeds towards hypothesis, it is called
	(1) Analysis (2) Synthesis (3) Induction (4) Problem solving

42. Observe the following trigonometric identity.

$$\sin(A - B) = \sin[(A) + (-B)]$$

$$= \sin A \cos(-B) + \cos A \sin(-B)$$

$$= \sin A \cos B - \cos A \sin B$$

The method of derivation of this formula is

Dialogue method

(2) Dogmatic method

(3) Synthetic method

- Analytic method (4)
- 43. The 'negation' of the statement.

"Delhi is in India and London is in England" is

- Delhi is not in India and London is not in England
- Delhi is not in India or London is not in England (2)
- Delhi is in India or London is in England
- (4) Delhi is in England and London is in India
- 44. Observe the following derivation of law of indices

$$a^{m} = a \times a \times a$$
 m times  $\therefore$  Definition  $a^{n} = a \times a \times a$  n times  $\therefore$  Definition  $\therefore a^{m} \cdot a^{n} = (a \times a \times a \dots m \text{ times}) \cdot (a \times a \times a \dots n \text{ times})$ 

$$= a \times a \times a \times ... (m \times n) \text{ times}$$
  
=  $a^{m+n}$  : by definition

Which of the following method is used in derivation of the above formula?

- (1) Induction
- (2) Analysis
- (3) Deduction
- **Synthesis** (4)
- 45. Let 'p  $\rightarrow$  q' be a theorem, where 'p' is hypothesis and 'q' is the conclusion. Then, its inverse is
  - (1)  $q \rightarrow p$
- $(2) \sim p \rightarrow q$
- $(3) \sim p \rightarrow \sim q$
- $(4) \sim q \rightarrow \sim p$

46. Read the following statement carefully.

> 'The volume of a cone would be one third of the volume of the cylinder having the equal height and equal radius of the base, as the cone has'.

This fact may be shown to students by the teacher, by using

(1) Deductive method

(2) Laboratory method

(3) Heuristic method

- Inductive method (4)
- The project method as a method of teaching is useful to acquire mostly
  - (1) Incidental knowledge

- (2) Integrated knowledge
- Informational knowledge
- Superficial knowledge (4)
- 48. A few authors say that 'Deduction is opposite to induction' and 'synthesis is opposite to analysis'. Infact they are not. The underlined words, would, therefore, mean that
  - (1) Proof goes in opposite direction
- (2) Argument goes in opposite direction
- Reasoning goes in opposite direction (4) Working goes in opposite direction

49.	Deductive reasoning is the process of drawing logical inferences from									
	(1)	Specific example	es		(2	2)	Hypothetical st	ructui	es	
	(3)	Unknown structu	ires		(4	1)	Established fac	ts		
50.	cont	en are two column cains the names of mbled order. Matc	educ	ationists, who					-	
		Column I		J		C	Column II			
	a)	Inductive method	1		i)	C	Comenius			
	b)	Deductive metho	od		ii)	Jo	ohn Dewey			
	c)	Project method			iii)		estology			
	d)	Heuristic method	d		iv)	E	dward Armstrong	, ,		
	Iden	tify the correct alt	erna	tive			_			
	(1)	(a, i), (b, ii), (c, i	ii), (c	d, iv)	(2	2)	(a, iv), (b, iii), (	c, i), (	(d, ii)	
	(3)	(a, iii), (b, i), (c,	ii), (c	d, iv)	(4	1)	(a, ii), (b, iii), (d	c, iv),	(d, i)	
51.		step of the lesson wledge is	plan	that links up	the n	ew	knowledge with	the n	ecessary previous	
	(1)	Preparation	(2)	Presentation	(3	3)	Association	(4)	Recapitulation	
52.	The	fundamental adva	ntage	e of lesson pla	nning	is	to			
	(1)	teach with confic	lence	e	(2	2)	achieve the set	objec	tives.	
	(3)	use all the availa	ble r	esources.	(4	1)	save time and en	nergy.		
53.		er completion of tea		-		_		solve	a few problems as	
	(1)	Developmental A		-	•	2)		tivitie	es	
	(3)	Introductory Act	ivitie	es	(4	1)	Concluding Act	ivities	S	
54.	The	period plan forma	t has	been suggeste	ed by					
	(1)	NCERT	(2)	SCERT	(3	3)	UGC	(4)	NCTE	
55.	Mic	roteaching concep	t was	s proposed by	the e	duo	cationist			
	(1)	Dwight Allen			(2	2)	Benjamin Bloom	m		
	(3)	Edgar Dale			(4	4)	Elizabeth Simps	son		
56.	The	book, "Becoming	Bett	er Teacher" on	micr	ote	eaching was writt	en by		
	(1)	Allen	(2)	Passi	(3	3)	Jangeera	(4)	Bush	
57.	Year	r plan preparation	will t	oe based upon	the fo	ollo	owing resource			
	(1)	Text Book			(2	2)	Teaching Diary			
	(3)	Academic Calend	dar		(4	1)	<b>Teaching Notes</b>			

58.	(1)	To develop the tea			1g 1s				
	(2)	To practice the tea			nulated	situations.			
	(3)	To save time and e							
	(4)	To provide immed			he stude	ent teachers.			
59.	Acc	ording to Preston, v	whic	ch is a large blo	ock of r	elated subject	matter?		
	(1)	Syllabus (	2)	Unit	(3)	Lesson	(4)	Sub unit	
60.	"Un	it approach" of less	on p	lanning is proj	pounde	d by			
	(1)	John Deway			(2)	Bloom			
	(3)	Morrison			(4)	Rene Descar	tes		
61.	Whi	ch one of the follow	wing	g is not the use	of a te	xtbook?			
	(1)	It provides insigh		-		-			
	(2)	2) Helps the teacher in presenting the subject matter in an orderly and systematic sequence.							
	(3)	Presents a variety	of v	worked out exa	amples.				
	(4)	Improves the atte	ntio	n of the studen	ıt.				
62.	Which of the following is not a quality of a good mathematics textbook?								
	(1)								
	(2)								
	(3)								
	(4)	There should be s	uffi	cient provision	n for rev	vision, practice	and rev	iew.	
63.	According to Hunter's score card, which of the following is not a criterion for evaluating the mathematics textbook?								
	(1)	Professional statu		the author	(2)	Psychologica	al sound	ness	
	(3)	Literary style			(4)	•			
64.	The	following are given	n in	the cone of exp	perience	e of Dale. Arra	nge ther	n in the incr	reasing
	orde	r of abstractness.							
	a)	Field Trips / Excu	rsio	ns	b)	Motion pictu			
	c)	Radio			d)	Verbal symbo	ols		
		tify the correct ord							
	(1)	a, b, c, d (	2)	b, c, d, a	(3)	c, b, a, d	(4)	d, c, b, a	
65.	Whi	ch of the following				•			
	(1)	Satisfying creativ			_				
	(2)	Improving unders		-		concepts.			
	(3)	Improving the inte			ubject.				
	(4)	Improving their in	ntell	igence.					

## **2PM3**



- Which of the following one is not the use of teaching aids? 66.
  - (1) Helps to byheart the subject
  - (2) Providing intrinsic motivation for learning
  - (3) Encourages original thinking
  - (4) Leaves long lasting impressions on the minds of the learners
- 67. Which of the following is not a principle of selection of Audio-visual Aids?
  - Selection should be based on age, intelligence and experience of students.
  - Selection should be made on the basis of cost. (2)
  - Selection should be helpful in achieving the desirable outcome. (3)
  - Selection should provide required multi-sensory experience to the students.
- 68. Which of the following measures is not useful for effective use of A. V. Aids?
  - Encouraging pupil participation while using aids.
  - (2) To exhibit all the teaching aids to the class before they are used.
  - By providing sufficient time to the students to see, observe and draw inferences. (3)
  - To see that aids are made clearly visible to the students. (4)
- 69. Which of the following is not a good purpose for using Audio visual aids?
  - Assessing student's understanding
  - Arousing curiosity (2)
  - Maintaining interest (3)
  - (4) Correlating mathematical ideas with life and other field
- 70. Which of the following is not an effective way of using the Chalkboard?
  - Clearing the chalkboard before using it.
  - (2) Encouraging student's participation by asking them to write on the chalkboard.
  - Displaying a chart on the written matter of the board. (3)
  - Highlighting key concepts with coloured chalk. (4)
- Which of the following is not a proper way of preparing and using a chart? 71.
  - Not giving the caption or title relating to the main theme presented in the chart. (1)
  - Colourful, pleasing and attractive. (2)
  - (3) The letters should be of proper size.
  - The chart should depict a single aspect of subject matter. (4)
- Which of the following is not correct in preparing models for teaching mathematics? 72.
  - The model should represent real object. (1)
  - (2) It should provide necessary motivation to the students to learn.
  - The concepts are represented clearly. (3)
  - It should not lead to manipulation by students. (4)

73.	If a tool yields same scores on repeated administrations with a time gap, then the tool is
	said to have

(1) Comprehensiveness

Objectivity (2)

Reliability (3)

Usability (4)

A tool is designed to measure the content of 'Probability' and it measures only probability (of course language component is ignored). Then, the test possesses the characteristic of

(1) Concurrent validity

(2) Face validity

(3) Construct validity

(4) Content validity

A tool covers all objectives selected for the course, samples entire syllabus prescribed for 75. the course; contains all forms of test items and all difficulty levels. Then it is said to have

(1) Completeness

Wholeness (2)

(3) Entireness

(4) Comprehensiveness

Read the following statement.

'A teacher said that Rajini has 90% of attendance. Hence, she is sent for public examination. Nitin has only 25% of attendance. Hence he is not sent for the public examination.'

Which of the following is true?

The teacher took the decision on the basis of

(1) Evaluation of Attendance

(2) Measurement of Attendance

(3) Assessment of Attendance

(4) Computation of Attendance

77. Below are two columns A and B. Four qualities of a test are written in column A and their brief explanation in column B, in scrambled order. Match them correctly.

Column A

Column B

Objectivity a)

- yielding the scores that are comparable to standard one i)
- Reliability b)
- yielding the same scores irrespective of examiner ii)
- c) Validity
- yielding the scores that are explainable iii)
- Interpretability
- yielding the same scores irrespective of administration iv)

Alternatives are

- (1) (a, ii), (b, iv), (c, i), (d, iii)
- (2) (a, i), (b, iii), (c, iv), (d, ii)
- (3) (a, iv), (b, i), (c, ii), (d, iii)
- (4) (a, iii), (b, ii), (c, iv), (d, i)

78. Below are two statements A and B. Read them properly.

'A: In split-half method of establishing reliability, same tool is administered two times with a time gap, on the same group.

If the same examiner values script, there is a likelihood of getting same scores.' B: Identify the correct alternative.

'A' is true and 'B' is true (1)

'A' is true and 'B' is false (2)

'A' is false and 'B' is true (3)

'A' is false and 'B' is false (4)

# 2PM3

Below are two columns, A and B. Four forms of test items are written in column A and their 79. qualities in column B, in a scrambled order.

Column A

Column B

- Essay type questions a)
- i) Moderate subjective and moderate objective
- Short answer type questions b)
- Most objective least subjective Most ii) comprehensive
- c) Fill in blanks type
- Most probability for guessing and copying iii)
- Multiple choice type d)
- More subjective and least objective iv)

Match them correctly and choose correct alternative

- (a, i), (b, iv), (c, ii), (d, iii)(1)
- (2) (a, iii), (b, i), (c, iv), (d, ii)
- (3) (a, iv), (b, i), (c, ii), (d, iii)
- (4) (a, ii), (b, i), (c, iii), (d, iv)
- 80. The reliability of a test may be established by
  - Repeated test method (1)
- (2) Multiplication of test method

(3) Test-Retest method

- Repeated trials method (4)
- 81. Below are two columns, A and B. Four 'tools and techniques' are written in column A and their brief explanations are given in column B, in a scrambled order.

Column A

Column B

- Interview schedule a)
- Indicating how much the given quality is present i)
- b) Check list
- ii) Face to face conversation
- Rating scale c)
- Recording the presence or absence of a characteristic iii)
- d) Opinionnaire
- Recording degree of agreement or disagreement iv)

Match them correctly and choose correct alternative.

- (1) (a, iv), (b, ii), (c, i), (d, iii)
- (2) (a, iii), (b, ii), (c, i), (d, iv)
- (3) (a, i), (b, iii), (c, iv), (d, ii)
- (4) (a, ii), (b, iii), (c, i), (d, iv)
- 82. Which one of the following is not a limitation of essay type examination.
  - Promoting selective learning
- (2) lack of reliability in scoring

lack of objectivity (3)

- doesn't emphasize on rote memorisation (4)
- 83. Read the following statement.

'The Government are implementing Continuous Comprehensive Evaluation (CCE) in the state.' In the above statements 'the continuous evaluation' may be ensured by

- (1) increasing the number of exercises in the text books.
- (2) increasing the number of tests in the schools.
- (3) increasing the number of questions in the tests.
- increasing the number of tests and spreading them evenly throughout the year. (4)

04.	in column B, in a scrambled					under A	and then func	uons	
	Column A	01401.	Columi		oneony.				
	a) Diagnostic Tests	i)			measure the i	ntelliger	ice of pupil.		
	b) Prognosis Tests	ii)		Those which measure the intelligence of pupil.  Those which assess the progress in school subjects.					
	c) Achievement Tests			analyse the le			·Cts.		
	d) Intelligence Tests	iii) iv)			predict the fu	_		e	
	Match them correctly and c				_			C	
	(1) (a, iii), (b, iv), (c, ii), (			(2)	(a, ii), (b, iii)		_		
	(3) (a, iii), (b, ii), (c, iv), (			(4)	(a, i), (b, iii),				
85.	Dyscalculia refers to the dif		in						
	(1) doing arithmetic calcu			(2)	copying the				
	(3) byhearting the theorem	ns		(4)	drawing the o	liagrams			
86.	Which one of the following	is not a	reason f	for ba	ckwardness of	fstudent	s in mathema	ıtics?	
	(1) Teacher's indifference	<b>:</b>							
	(2) Physical retardation								
	(3) Regular study habits in								
	(4) lack of practice and dr	ill							
87.	The range of I.Q. scores of	slow lea	arners is						
	(1) 70-90 (2)	80-90		(3)	80-100	(4)	100-120		
88.	The examination conducted	by NC	ERT to ic	dentif	y the gifted stu	idents is			
	(1) National Talent Test	•		(2)	National Tale				
	(3) National Talent Olymp	oiad		(4)	Knowledge (	Olympiac	l		
88.	The remedial programme for	r a stud	lent, who	is a s	slow learner in	mathen	natics, is		
	(1) using interesting teach			(2)					
	(3) giving proper guidance	_		(4)	_	-			
90.	The teaching method that is	suitabl	e for a gi	fteds	student is				
	(1) Team teaching		_		Individualise	ed instruc	ction		
	(3) Demonstration method	d		(4)	Project meth				
01							:f-, 41		
91.	The fundamental aim of con	_	•	mauc	es Orympiau is	to ident	ny me		
	(1) intelligent students in			4: .					
	(2) exceptionally bright st			matic	S				
	(3) average students in ma		ics						
	(4) slow learner in mather	naucs							
92.	When a student solves mo			blem	s, learns rapio	dly and	easily and sl	aows	
	originality, then he can be id	lentifie	as a/an	(2)	City 1				
	(1) Backward student			(2)	Gifted stude				
	(3) Intelligent student			(4)	Average stud	ent			



- 93. Which one of the following have suggested to form a 'maths club' in each school to nurture the mathematically talented children?
  - National Policy on Education, 1986
- (2) Programme of Action, 1992
- (3) National Educational Policy, 1968
- (4) Kothari Commission (1964-66)

- Pi-day is celebrated on 94.
  - (1) August, 5
- (2) March, 14
- (3) March, 22
- (4) December, 22
- 95. The first mathematical journal published in Telugu is
  - (1) Ganitha Upadhyaya

(2) Ganitha

Ganitha Chandrika (3)

- (4) Ganitha Vaahini
- The lengths of AB, BC and AC are respectively 3 m, 4 m and 5 m. An illiterate person has to go to 'C' from 'A'. He walked through 'A' to 'C'. Unknowingly, he used the principle
  - (1) AB+BC<AC

AC < AB + BC(2)

(3) AB+BC=AC

- BC AB = AC(4)
- 97. Which one of the following is not an advantage of mathematics fair?
  - Improves mathematical communication (1)
  - (2)Improves fear of mathematics
  - Improves mathematical reasoning
  - (4) Improves problem solving skills
- 98. Which of the following is not an activity of a mathematics club?
  - Celebrating the birthday of a mathematician (1)
  - Organising lecture by an eminent person in mathematics (2)
  - Helps in developing problem solving attitude among students (3)
  - Providing coaching to International Mathematics Olympiad
- A cow is tied up to a pole with a rope. A 7<sup>th</sup> class boy saw it and imagined its path of moving. 99. Its path would be
  - (1) Circle, with the pole at the centre
  - Sector, with the pole at the vertex (2)
  - (3) Rectangle, with the pole at a corner
  - Rectangle, with the pole at the point of intersection of diagonals (4)
- 100. Satwik, a 9th class student, prepared some words cat, cane, tea, in, to etc from the word 'Education'. Unknowingly, he used the concepts of
  - Universal set, proper subject (1)
- Universal set, equal sets (2)
- (3) Universal set, sub sets
- Universal set, equivalent sets (4)

## SPACE FOR ROUGH WORK