

SAMPLE PAPER-II

Based on Class 8 Syllabus

Time Allowed: 3 hrs

Maximum Marks: 100

MATHEMATICS

Q1.A simple closed curve made up of only is called a polygon .									
(a)curves	(b) line segments	(c) lines	(d) closed curves						
Answer:(b)									
Q2. Maximum number of right angles in a right angled triangle are									
(a) 2	(b) 1	(c) 3	(d) 0						
Answer:(b)									
Q3. The angle sum	of all interior angles of a con	vex polygon of sides	7 is						
(a) 180°	(b) 540°	(c) 630°	(d) 900°						
Answer:(d)									
Q4. The number of	sides in a regular polygon is	15, then measure of e	each exterior						
angle is (a) 24°	(b) 36°	(c)20°	(d)18°						
Answer: (a)	(5)	(-)	(3) = 3						
	owing polygons is convex poly	gon ?							
(a)	(b)	(c)	(d)						
(a)		(c)	(d)						
Answer:(c)									
Q6. The value of (x)) in the following figure is								
(a)120° (c)100°	(b)80° (d)60°	50)	° 120°						

Answer: (d)

Q7. The diagonals of a square bisect each other at _____ angle.

(a)acute

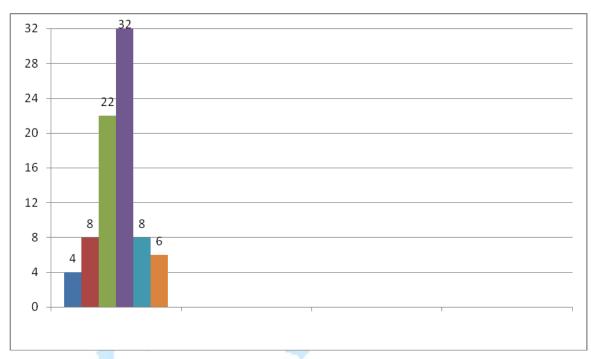
(b)right

(c)obtuse

(d)reflex

Answer: (b)

The number of hours for which students of particular class watched television during holidays is shown through the graph given below:



See the graph given above and answer the following questions (Q8-Q12)

Q8. For how many hours did the maximum number of students watch TV?

(a) 4-5 hrs

(b) 6-7 hrs

(c) 3-4 hrs

(d) 2-3hrs

Answer: (a)

Q9 How many students watched TV for less than 4 hrs?

(a) 12

(b) 34

(c) 4

(d) 8

Answer: (b)

Q10. How many students spent more than 5 hrs in TV watching?

(a) 14

(b) 0

(c) 6

(d) 8

Answer: (a)

Q11. For how many hours did the minimum number of students watch TV?

(a) 2-3 hrs

(b) 6-7 hrs

(c) 1-2 hrs

(d) 3-4hrs

Answer: (c)			
Q12. How many stude	ents spent less than 5 hr	rs in TV watching?	
(a) 34	(b) 32	(c) 8	(d) 66
Answer: (a)			
	_	_	on one slip), kept in a box and it . What is the probability of
(a) 1	(b) 0	(c) $\frac{1}{10}$	
Answer: (c)			
Q14.Which of the follo	owing is not a square n	umber?	
(a) 4	(b)9	(c) 16	(d)24
Answer:(d)	ME 01	MARK.	
Q15. Which of the following	owing is a perfect squa	are?	
(a) 45	(b) 81	(c) 18	(d)54
Answer:(b)			
Q16. How many natura	al numbers lie between	9^2 and 10^2 ?	
(a) 15	(b) 19	(c) 18	(d) 17
Answer: (c)			
Q17. By which smalles	st number 90 must be n	nultiplied so as to make it	a perfect square?
(a) 10	(b) 2	(c) 5	(d) 3
Answer:(a)			
Q18 What will be the r	number of digits in the	square root of 1296?	
(a) 2	(b) 3	(c) 1	(d) 4
Answer:(a)			
Q19 What is the length	of the diagonal of a re	ectangle having dimensions	s 3cm and 4cm?
(a) 5	(b) 7	(c) 1	(d) 4
Answer:(a)			
Q20.Which of the follo	owing is not a perfect c	ube?	
(a) 1	(b) 9	(c) 8	(d) 27
Answer:(b)			
Q21.Which of the follo	owing is Hardy-Raman	ujan Number?	

(a) 1724 (b)1725			(c) 1727	(d) 1729		
Answer:(d)						
Q22: The number of	terms in the express	ion 2x ² +	+3x+5 is			
(a) 1	(b) 2		(c)3	(d)5		
Answer:(c)						
Q23:The expression	y+z+100 is a					
(a) monom	ial		(b) literal number	r		
(c) binomia	.1		(d) trinomial			
Answer:(d)						
Q24:The addition of	ab-bc, bc-ca, ca-ab	is				
	Bbc+3ca ab+bc+ca	(b) 0	(d) ab-bc+ca			
Answer:(b)	U15 - 2	20'	161			
Q25. In fig., a square	of side 5 cm, the ar	ea of sh	aded portion is			
(a) 9000 cm	m ² (b) 90 cm ²		(c) 9 cm^2 (d) 900 cm ²	1 1	
Answer:(c)	7				1 1	
SCIENCE:					e 5 -	
Q26.Nowadays seed	is sown in the field	using				
a)Seed Tractor c)Seed Tiller	b)Seed drill d)Seed Plough					
Answer:(b)						
Q27.Rhizobium (a E	Bacteria) which fixed	s atmosp	oheric nitrogen ar	e found in nodu	les growing in	
a)Roots of legumino c)Stem of Legumino	•		Leaves of leguminal All of the above.	ous plants		
Answer:(a)						
Q28.Examples of M	ulticellular Microor	ganism	are			
a)Algae, Bacteria c)Bacteria and Virus	ses		Bacteria and Fung Algae and Fungi	i		

Q29. Some medicines obtained from micro-organisms are applied to kill or stop the growth of disease-causing microorganisms. Such medicines are called _____.

Answer:(d)

a)Antibodies c)Antiseptics	b) d)	Antibiotics All of the above
Answer:(b)		
Q30.The process of conversion of sugar	into a	alcohol by yeast is called
a)Fermentation c)Alcoholism	b) d)	Pasteurisation All of the above
Answer:(a)		
Q31.A chain of small chemical units cor	nbine	ed to form a large single unit is called
a)Polymer c)Polythene	b) d)	Poly None of the above
Answer:(a)		and the
Q32 .The 4 R Principle is	ZŲ	16
a)Reduce, Reuse, Recycle, Recover c)Repeat, Rejoice, recycle, reduce	b) d)	Remember, reduce, Recycle, Rejoice None of the above
Answer:(a)		
Q33.The property of metal by which it c	an be	drawn into wires is called
a)Ductility c)Metallic	b) d)	Sheetability Malleability
Answer:(a)		
Q34.The metal found in liquid state is		
a)Iron b)Aluminium c)Mercury d)Gold		
Answer:(c)		
Q36.Resources present in unlimited quaactivities are called	ıntity	in nature and are not likely to be exhausted by human
a)Exhaustible Natural Resources c)Exhaustible Resources		Inexhaustible Natural Resources None of the above
Answer: (b)		
Q37.Black gold is actually		
a)Gold which became black on burning c)Gold sold in black market	b)	Petroleum d) Diamond

Q38.A chemical process in which a subst	ance	reacts with oxygen to give off heat is called					
a)Conduction c)Combustion	b) d)	Conjunction Confusion					
Answer:(c)							
Q39.Part of the earth which supports life a)Atmosphere c)Biology	when b) d)	re living beings exists is called Biosphere Biodiversity					
Answer:(b)							
Q40. Variety of organisms existing on the earth, their interrelationships and their relationship with the environment is called							
a)Diversity c)Biology	b) d)	Biosphere Biodiversity					
Answer:(d)							
Q41.Hen's egg is							
a)An organ c)A tissue	b) d)	A Single cell Is none of the above					
Answer:(b)							
Q42.Which of the following cells can cha	ange	its shape					
a)White blood cell c)Red blood cell	b) d)	Egg cell All of the above					
Answer:(a)							
Q43.Robert Hooke first observed							
a)Nucleus c)organs	b) d)	Cells virus					
Answer:(b)							
Q44.A cell without organized nucleus is	calle	d					
a)Prokaryotic cell c)Virus	b) d)	Eukaryotic cell None of the above					
Answer:(a)							
Q45.Larynx is also called							

b) Sound box

a)Voice box

Answer:(b)

c)Black box	d)	All of the above				
Answer:(a)						
Q46.If two forces act in the opposite dire	ection	as on an object, the net force acting on it is the				
a)Sum of the two forces c)Multiplication of the two forces	b) d)	difference between the two forces Division of the two forces				
Answer:(b)						
Q47.Force of friction always acts on mov	ing c	objects and its direction shall be				
a)On any direction c)Perpendicular to the direction of motion	1	b) Along the direction of motion d)Opposite to the direction of motion				
Answer:(d)						
Q48.A matchstick struck on a matchbox	catch	es fire easily because				
a)Friction may cause fire c)Force heated the match stick	b) d)	Of chemical reaction None of the above				
Answer: (a)						
Q49.A boat or an aeroplane has a pointed	or ta	pering front/ head. Why?				
a)To increase the friction of fluid c)To look good	b) d)	To reduce the friction of fluid For no reason				
Answer: (b)						
Q50.Sound cannot travel through						
a)vacuum c)water	b) d)	air solids				
Answer:(a)						
GENERAL KNOWLEDGE						
Q.51.In which year did Microsoft release V	Wind	ows 10?				
a.2014 b.2105 c.2013 d.It has not	been	released.				
Answer – b						
Q.52.Who is also known as the light of As	ia ?					
a.Sant Gyaneshwar b.Mahatma Gandh	ni	c.Gautam Buddha d.Bhagwan Mahavir				

Answer-c

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Q.53. What is Sodium Carbonate commonly known as?
a.Soda Water b.Acid c.Washing Soda
                                         d.Preservative
Answer - c
Q.54. Name India's first research station in the Artic?
            b.Chanakya c.India A
a.Himadri
                                    d.Rohini
Answer - a
Q.55. Who is the current Home Minister of India?
a.Arun Jaitley
               b.P.Chidambaram
                                  c.Rajnath Singh d.Sushma Swaraj
Answer - c
Q.56. Which was India's first full length motion picture?
a.Mahabharatha b.Raja Harishchandra c.Aan
                                                d.Barsaat
Answer- b
Q.57. Who delivered the famous Gettysburg Speech?
a. Winston Churchill b. Swami Vivekananda c. Abraham Lincoln d. John F Kennedy
Answer - c
Q.58. Name India's first indigenously developed supercomputer?
a)Saga b)Param c)Vikram d)Aadithya
Answer –b
Q.59. Who wrote the novel-Midnight's Children?
a)Bisham Sahni
                 b)Anita Desai c)Salman Rushdie d)R K Narayan
Answer - c
Q.60. Who is the author of the book-20,000 leagues under the sea?
a) Jules Verne
               b)Harper Lee
                              c)Charles Dickens
                                                  d)Arthur Conan Doyle
Answer - a
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- Q.61. Which actor has played the part of the famous fictional detective –Hercule Poirot the maximum number of times ?
- a)Peter Ustinov b)David Suchet c)Albert Finney d)Austin Trevor

Answer - b

Q.62. Which sports persons nickname is "Black Pearl"?

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a) Usain Bolt
               b) Vivian Richards
                                   c)Pele
                                            d)Yohan Blake
Answer - c
Q.63.In which city is Kremlin Situated?
a)St.Perersburg
                 b)Prague
                            c)Kiev
                                      d)Moscow
Answer - d
Q.64. What is the capital of the state of Tripura?
a) Dispur b) Agartala c) Itanagar d)Kohima
Answer-b
Q.65.Shantiniketan is associated with which famous personality?
a)Satyajit Ray b) Raja Ram Mohan Rao
                                          c) Rabindra Nath Tagore
                                                                    d) Swami Vivekananda
Answer - c
Q.66. The Channel Tunnel connects which two countries?
a.Germany and Poland b.France and England c.Spain and France d.Germany and Belgium
Answer - b
Q.67. What was the name of the spacecraft in which Yuri Gagarin travelled in space?
          b. Voshkod 2
                         c. Vostok I
a.Apollo
                                      d.Sputnik
Answer - c
Q.68. Vincent Van Gogh is a famous
a)Writer
           b)Pianist c)Painter
                                 d)Opera Singer
Answer - c
Q.69. Who is the founder of Twitter-the social networking site?
a)Jack Dorsey
                               c)Sabeer Bhatia d)Vinod Dham
               b) Steve Jobs
Answer - a
Q.70. Which is the country in which Emiliano Zapata led a peasant uprising?
a)Bolivia
            b) Peru c)Mexico d)Cuba
Answer - c
Q.71. Where is the National Defence Academy located?
a) Mhow
           b)Bhopal
                       c)Pune
                                d)Khadakvasala
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Answer - d

Q.72.In which state is the Kaziranga National Park Situated?

a)Manipur b) West Bengal c) Assam d) Madhya Pradesh

Answer - c

Q.73.Rani Ahilya Bai was the ruler of which princely state?

a)Jodhpur b)Indore c)Pune d)Ajmer

Answer - b

Q.74. Where is the Wailing Wall located?

a) Berlin b) Tel Aviv c) Jerusalem d)Amman

Answer - c

Q.75. Which famous author has written the novel-Inferno ,based on which a Hollywood movie is being made?

a) Sidney Sheldon b) Dan Brown c) Irving Wallace d) Colin Forbes

Answer-b

MENTAL ABILITY

Q.76. Look at this series: 8, 43, 11, 41, ___, 39, 17, . . . What number should fill in the blank? a. 8 b. 14 c. 43 d. 44

Answer – bThis is a simple alternating addition and subtraction series. The first series begins with 8 and adds 3; the second begins with 43 and subtracts 2.

Q.77. Look at this series: 15, __, 27, 27, 39, 39, . . . What number should fill the blank? a. 51 b. 39 c. 23 d. 15

Answer -d

In this simple addition with repetition series, each number in the series repeats itself, and then increases by 12 to arrive at the next number.

Q.78. Look at this series: 83, 73, 93, 63, ___, 93, 43, . . . What number should fill the blank? a. 33 b. 53 c. 73 d. 93

Answer -b

This is a simple subtraction series in which a random number, 93, is interpolated as every third number. In the subtraction series, 10 is subtracted from each number to arrive at the next.

Q.79. Here are some words translated from an artificial language.

lelibroon means yellow hat plekafroti means flower garden frotimix means garden salad

Which word could mean "yellow flower"? a. lelifroti b. lelipleka c. plekabroon d. frotibroon

Answer - b

Leli means yellow; broon means hat; Pleka means flower; froti means garden; mix means salad. Therefore, lelipleka means yellow flower.

Q.80. Here are some words translated from an artificial language. *moolokarn* means blue sky *wilkospadi* means bicycle race *moolowilko* means blue bicycle

Which word could mean "racecar"? a. wilkozwet b. spadiwilko c. moolobreil d. spadivolo

Answer - d

From *wilkospadi*, you can determine that *wilko* means bicicyle and *spadi* means race. Therefore, the first part of the word that means racecar should begin with *spadi*. That limits your choices to **b** and **d**. Choice **b**, *spadiwilko*, is incorrect because we have already determined that *wilko* means bicycle. Therefore, the answer must be choice **d**, *spadivolo*.

Q.81. Here are some words translated from an artificial language. daftafoni means advisement imodafta means misadvise imolokti means misconduct

Which word could mean "statement"? a. kratafoni b. kratadafta c. loktifoni d. daftaimo

Answer - a

Dafta means advise; foni is the same as the suffix —ment; imo is the same as the prefix mis—; lokti means conduct. Since the only word in the answer choices that hasn't been defined is krata, it is reasonable to assume that krata means state. Therefore, kratafoni is the only choice that could mean statement.

Q.82. Here are some words translated from an artificial language. dionot means oak tree blyonot means oak leaf blycrin means maple leaf

Which word could mean "maple syrup"?

a. blymuth b. hupponot c. patricrin d. crinweel

Answer - c

In this language, the adjective follows the noun.

From *dionot* and *blyonot*, you can determine that *onot* means oak. From *blyonot* and *blycrin*, you can determine that *bly* means leaf. Therefore, *crin* means maple. Because the adjective maple comes after the noun, *patricrin* is the only possible choice.

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Q.83. Here are some words translated from an artificial language. agnoscrenia means poisonous spider delanocrenia means poisonous snake agnosdeery means brown spider

Which word could mean "black widow spider"?

a. deeryclostagnos b. agnosdelano c. agnosvitriblunin d. trymuttiagnos

Answer - c

In this language, the noun appears first and the adjectives follow. Since *agnos* means spider and should appear first, choices a and d can be ruled out. Choice b can be ruled out because *delano* means snake.

Q.84. A *Guarantee* is a promise or assurance that attests to the quality of a product that is either (1) given in writing by the manufacturer

or (2) given verbally by the person selling the product.

Which situation below is the best example of a Guarantee?

- a. Aruna purchases a DVD player with the highest consumer ratings in its category.
- b. The salesperson advises Ajay to be sure that he buys an air conditioner with a guarantee.
- c. The local car repair shop specializes in refurbishing and selling used cars.
- d. Manoj buys a used digital camera from his colleague who says that he will refund Manoj's money if the camera's performance is not of the highest quality.

Answer -d

Choices a, b, and c do not describe situations in which a product is guaranteed. Only choice d reflects a situation in which a seller attests to the quality of a product by giving the buyer a promise or assurance about its quality.

Q.85. *Embellishing the Truth* occurs when a person adds fictitious details or exaggerates facts to true stories. Which situation below is the best example of Embellishing the Truth?

- a. Amita goes to the theater, and the next day, she tells her co workers she thought the play was excellent.
- b. The real estate agent describes the house, which is 2 kms away from the ocean, as prime waterfront property.
- c. During the job interview, Vijay, who has been teaching primary school for ten years, describes himself as a very experienced teacher.
- d. The hockey coach says it is likely that only the most talented players will get a college scholarship.

Answer - b

The real estate agent is using a clear exaggeration when he states that a house which is 2 Km away from the ocean is prime waterfront property.

Q.86. An *Informal Gathering* occurs when a group of people get together in a casual, relaxed manner. Which situation below is the best example of an Informal Gathering?

- a. The book club meets on the first Thursday evening of every month.
- b. After finding out about his promotion, Anil and a few colleagues from office decide to go out for a quick snack after work.
- c. Karishma sends out 25 invitations for the birthday party she is giving for her sister.
- d. Whenever she eats at the South Indian restaurant, Tanushree seems to run into Mr Biswas.

Answer - b

After getting some good news, Anil and a few colleagues casually get together for a drink after work, thereby having an informal gathering.

Choices a and c describe more formal types of gatherings. Choice d describes a chance or coincidental kind of meeting.

Q.87. What is the next letter in the series given below?

D,F,I,M,?

a.S b.R c. O d.Q

Answer - b

Between first 2 letters, one letter is skipped, the two, and then three and so on. Hence, after M,4 letters will be skipped ie N,O,P,Q will be skipped .Therefore R will be the next letter.

Q.88. Which number will replace the question mark in the following series:

0,6,24,60,120,210,?

a.240 b.290 c.336 d.504

Answer – The given series is : $1^3 - 1$, $2^3 - 2$, $3^3 - 3$, and so on.

Hence $7^3 - 7 = 343 - 7 = 336$

Q.89. Which word out of the following four does NOT belong with the others? a. fair

b. just

c. equitable

d. favourable

Answer - d

Fair, just, and equitable are all synonyms meaning impartial. Favorable means expressing approval.

Q.90. Which word does NOT belong with the others?

a. defendant

b. prosecutor

c. trial

d. judge

Answer –c

Defendant, prosecutor, and judge are all persons involved in a trial. A trial is not a person.

Q.91.Today is Friday. After 62 days, what day will it be?

a.Saturday b.Monday c.Tuesday

d.Thursday

Answer - d

Each day of the week is repeated after 7 days. Hence after 63 days it will be Friday(7 x 9 weeks=63 days). Therefore 62nd day will be Thursday.

Q.92.Kamla is 42 weeks older to me, while Anuradha is 15 weeks older to her. If Anuradha was born on a Saturday, then on which day was I born.

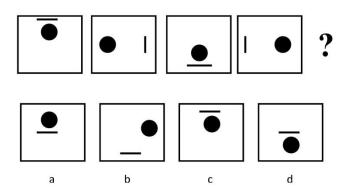
a.Monday b.Wednesday c.Saturday d.Sunday

Answer - c

Difference between my age and Anuradha's age =42 + 15 = 57 weeks.

Since each day of the week is repeated after 7 days and Anuradha was born on a Saturday and the difference is a clear 57 weeks,then my birthday is also on a Saturday .

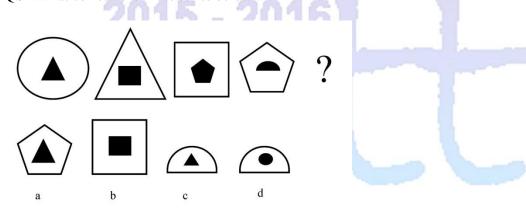
Q.93. What comes next in the following series?



Answer - c

The circle is moving anti clockwise and the line is moving clockwise.

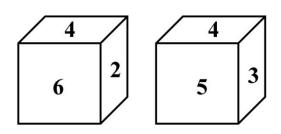
Q.94. What comes next in the series below?



Answer - d

As the series progresses ,the inner figure becomes the outer figure and a new small figure appears inside .

Q.95. Two different positions of a dice are given below. Which number will appear on the opposite side of Face "4"?



a.2

b.1

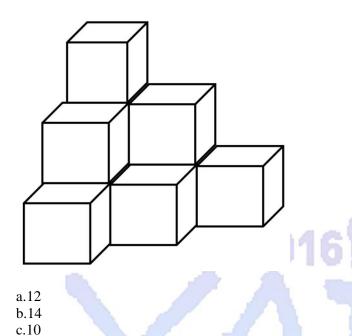
c.6

d. None of the above

Answer - b

We can see that 2,6,5 and 3 are adjacent faces of "4". Therefore the opposite face of "4" must be the one which has "1" on it.

Q.96. How many cubes are there in the given figure?



Answer –c

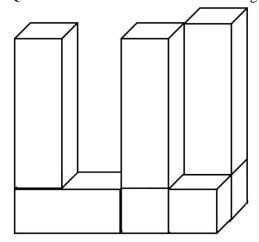
d.8

In the above figure, there is:

One column with 3 cubes ,two columns with with 2 cubes each and three columns with 1 cube each.

No of cubes in column of 3 cubes = $1 \times 3=3$ No of cubes in column of 2 cubes = $2 \times 2=4$ No of cubes in column of 1 cube = $3 \times 1=3$ Therefore, Total No of cubes = 3 + 4 + 3=10

Q.97. Count the number of blocks in the given figure.



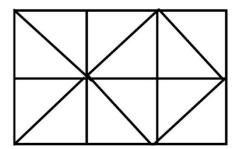
a.6

b.7

Answer -b

There are 4 blocks in the lower layer close to the ground. Then there are 3 blocks standing over the lower layer. Hence, 4 + 3 = 7 blocks.

Q.98. How many squares does the following figure have?



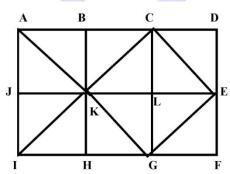
a.7

b.6

c.10

d.9

Answer - d





The squares are: ABKJ,BCLK,CDEL,LEFG,KLGH,JKHI,KCEG,ACGI,BDFH ie 9 squares.

Q.99.Find the missing number?

11	3	21
5	19	?
7	13	30

a.46

b.36

c.25

d.20

Answer - b

11 + 3 = 14; 14/2 = 7; 7x3 = 21

7 + 13 = 20; 20/2 = 10; $10 \times 3 = 30$

Hence: 5 + 19 = 24; 24/2 = 12; 12x3 = 36

Q.100.Find the missing number ?

	5			7			3		
8	28	4	12	12	8	5	21	6	
	3			9			?		

a.1

b.-1

c.2

d.-2

Answer-b

(8x5) - (4x3) = 28

(12x7) - (8x9) = 12

Hence:

 $(5x3) - (6 \times X) = 21$

15 - 6X = 21

-6X = 6

Therefore X = -1