ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ತರಗತಿ – 9

ಸಾರ್ವಜನಿಕ ಶಿಕ್ಷಣ ಇಲಾಖೆ

91-E

ಕರ್ನಾಟಕ ಶಾಲಾ ಗುಣಮಟ್ಟ ಮೌಲ್ಯಾಂಕನ ಮತ್ತು ಅಂಗೀಕರಣ ಪರಿಷತ್ತು (ರಿ.)

6ನೇ ಅಡ್ಡ ರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು - 560 003.

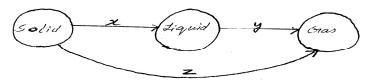
ಕಲಿಕಾ ಸಾಧನಾ ಸಮೀಕ್ಷೆ -2018-19

ಮಾಧ್ಯಮ : ಇಂಗ್ಲೀಷ್

	ವಿಷಯ: ವಿಜ್ಞಾನ, ಸಮಾಜ ವಿಜ್ಞಾನ, ಗಣಿತ	
ವಿದಾ	್ಯರ್ಥಿಗಳಿಗೆ ಸೂಚನೆಗಳು :	[ಸಮಯ: 2.30 ಗಂಟೆ]
1.	ಪ್ರಶ್ನೆಗಳನ್ನು ಮೊದಲು ಓದಿ ಅರ್ಥೈಸಿಕೊಳ್ಳುವುದು.	
2.	ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆಯಲ್ಲಿ ಬಲಗಡೆ ನೀಡಿರುವ ಸಂಖ್ಯೆಯನ್ನು ಓ.ಎಂ.ಆರ್. ನಲ್ಲಿ ನಿಗದಿಪಡಿಸಿದ ಮಾಡುವುದು.	ಸ್ಥಳದಲ್ಲಿ ಕಡ್ಡಾಯವಾಗಿ '√'
3.	ಪ್ರತಿ ಪ್ರಶ್ನೆಗೆ A.B.C.D. ಎಂಬುದಾಗಿ 4 ಆಯ್ಕೆಯ ಉತ್ತರಗಳನ್ನು ನೀಡಲಾಗಿರುತ್ತದೆ. ಉತ್ತರಕ್ಕೆ ಮಾತ್ರ ಓ.ಎಂ.ಆರ್.ನಲ್ಲಿ '√' ಮಾಡುವುದು. ಉದಾಹರಣೆ: 2ನೇ ಪ್ರಶ್ನೆಗೆ B.ಸರಿ ಉತ್ತರವಾಗಿದ್ದಲ್ಲಿ ಹೀಗೆ '√' ಮಾಡುವುದು.	A B C D
4.	ಹಿ.ಎಂ.ಆರ್.ನಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ನಿಗದಿಪಡಿಸಿದ ಸ್ಥಳದಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳು ಸಹಿ ಮಾಡುವ ನಿಗದಿಪಡಿಸಿರುವ ಸ್ಥಳದಲ್ಲಿ ಸಹಿ ಮಾಡುವುದು.	
1)	The salt responsible for temporary hardness in water is A) Sodium bicarbonate B) Calcium bicarb C) Calcium sulphate D) Calcium chloric	oonate
2)	The following is correct pair with reference to types of a A) Sugar solution → homogeneous	
	Salt solution → heterogeneous B) Sugar solution → heterogeneous	
	Sand and water → homogeneous C) Sugar solution → homogeneous	
	Sand and water → heterogeneous D) Sugar solution → heterogeneous	
3)	Sand and water → heterogeneous A liquid starts changing its state to gas at 203°F at no	rmal pressure. The
- ,	boiling point of that liquid at normal pressure in Kelvin	scale is:
1)	A) 2/3 K B) 268 K C) 3/3 K The satellite having its own atmosphere is:	D) 368 K
4)	The satellite having its own atmosphere is: A) Moon B) Phobos C) Titan	D) Europa
5)	The food substance that contains highest quantity of car A) Coconut B) Milk C) Potato	
6)	The function of flower's pollen is:	
	A) Attracting insectsB) Protecting inner parts of the flower	
	C) Producing female sex cells since it contains ovary	
7)	D) Producing male sex cells called pollen grains	
7)	The characteristic property of particles of matter is: A) The movement of particles increases as the temperature	increases
	B) The particles of matter move only when temperature is j	provided
	C) The movement of particles increases as the temperature	
	D) The rate of diffusion decreases as the temperature incre	ases

- 8) The correct characteristic property of wooden log:
 - A) Definite size, increased diffusion, has definite shape
 - B) Definite size, negligible compression, is hard
 - C) No definite size, does not diffuse, negligible compression
 - D) No definite shape and size, speed of diffusion is high, negligible compression
- 9) "The doctor suggests to keep a wet cloth on the forehead of the patient suffering from fever"- the scientific justification for this suggestion is:
 - A) To avoid dehydration from the patient's body having fever
 - B) To cool the body by the entry of water from the skin of the forehead
 - C) Water in the wet cloth reduces the temperature of the atmosphere
 - D) The water in the wet cloth uses the body temperature to evaporate and cools the body

10)



The above ray diagram illustrates the process and type of reaction for change in state of matter, x, y and z can be represented as,

- A) x = Fusion and endothermic
 - y = Condensation and exothermic
 - z = Sublimation and endothermic
- B) x =Solidification and endothermic
 - v = Fusion and exothermic
 - z = Condensation and endothermic
- C) x = Fusion and exothermic
 - y = Condensation and endothermic
 - z = Sublimation and exothermic
- D) x = Fusion and exothermic
 - y = Solidification and endothermic
 - z = Condensation and exothermic

11) The following is the correct pair with reference to solution and mixture,

- A) Sugar in water \rightarrow Solution
 - Tincture of Iodine → Suspension
- B) Copper sulphate in water → Solution Milk in water → Suspension
- C) Copper sulphate in water → Solution Chalk powder in water → Suspension
- D) Sugar in water → Solution Copper sulphate in water → Suspension
- 12) The processes related to physical change are
 - A) Fusion, solidification, condensation, evaporation B) Fusion, combustion, condensation, solidification
 - C) Fusion, digestion, solidification, evaporation
 - D) Fusion, solidification, digestion, condensation

13) A solution of Urea of 120g is obtained by dissolving 16g of Urea in water. The percentage mass of Urea is:

- A) 1.33%
- B) 13.33%
- C) 33.3%
- D) 133.3%

14) Following are the steps involved for separating water and methanol in laboratory

- i) Methanol having low boiling point evaporates
- ii) Taking the mixture in the distillation flask and heating
- iii) Water remains in the distillation flask
- iv) Collecting the condensed methanol in the condenser

The correct sequence is,

A) (iv), (ii), (i), (iii)

B) (ii), (i), (iii), (iv)

C) (iii), (i), (iv), (ii)

D) (ii), (i), (iv), (iii)

15) Following is the true statement related to plant cell

- A) Cell wall is made of cellulose
- B) Cell membrane is made of cellulose
- C) Chloroplast is made up of cellulose D) A big vacuole is made up of cellulose

16) The prokaryotic cell among the following is:

- A) Human cell containing nucleoid
- B) Plant cell containing nucleoid
- C) Bacterial cell containing nucleoid
- D) Virus cell not containing nucleoid

17) The reason for undergoing "Plasmolysis" of cell is

- A) It is kept in hypotonic solution. The cell organelles contracted due to loss of water by osmosis.
- B) It is kept in hypertonic solution. The contents of the cells moved away from the cell wall due to loss of water.
- C) It is kept in hypertonic solution. The contents of the cells have lost water and have shrinked.
- D) It is kept in hypotonic solution. The organelles have lost water and shrinked due to active transport.

18) The correct pair showing the cell organelles and their functions is :

- A) Golgi complex Weakens poisonous substances and toxins of medicines
- B) Centromere Keeps the cell clean by digesting wornout organelles
- C) Endoplasmic reticulum Helps in biological synthesis of cell membrane
- D) Lysosome Helps in synthesis of proteins

19) The characteristic properties of the muscles found in the bronchi of the lungs are :

- A) Involuntary, spindle shaped, smooth muscles with a single nucleus
- B) Involuntary, cylindrical, striated muscles with many nucleii
- C) Involuntary, spindle shaped, smooth muscles with many nucleii
- D) Involuntary, spindle shaped, striated muscles with a single nucleus

20) "Phloem is different from Xylem" because,

- A) The substances move upwards in phloem
- B) Xylem substances flow in both the directions
- C) The substances move downwards in phloem
- D) The substances move in both the directions in phloem

21) The epithelial tissue enveloping the capillaries are :

- A) cylindrical cells helping flow of blood in the capillaries
- B) flat cells helping the transportation of substances through the semipermeable membrane
- C) flat cells with an arrangement of many layers helping in transportation of blood
- D) cuboidal cells helping in transportation of materials

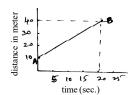
- 22) The properties of the cells in the tissues of the coconut shell is described as:
 - Present in shells of seeds, dead, stone cells with thick cell wall due to deposition of lignin
 - Present in seeds and fruits, living, stone cells with thick cell wall due to B) deposition of pectin
 - Present in shells of seeds, dead, flexible cells with thin cell wall deposition of
 - Present in shells of seeds, dead, flexible cells with cell wall deposition of D) lignin
- 23) A vehicle 'X' travels from A to B in 10 s. Both speed and velocity are calculated. Which of the following is impossible:
- A) Speed and velocity are same

 B) Speed is greater than velocity

 C) Velocity is greater than speed

 D) Velocity is lesser than speed

 The velocity of a body from 5th second to 15th second is 2m/s. The acceleration of the body from 10th second to 12th second is:
- B) 10 m/s^2
- C) 20 m/s^2 D) 0 m/s^2
- 25) In the given graph the distance travelled by a body from A to B is
 - A) 40 meters
 - B) 30 meters
 - 20 meters C)
 - 60 meters



- 26) A stone revolved in a circular path takes 10 s to complete one revolution in a circle of radius 7cm. Its velocity in m/s is:
 - A) 44 m/s
- B) 4.4 m/s
- C) 0.44 m/s D) 0.044 m/s
- 27) When arranged in the decreasing order of their inertia:
 - coin, rubber ball, bicycle, lorry
 - bicycle, lorry, coin, rubber ball
 - C) rubber ball, coin, lorry, bicycle
 - D) lorry, bicycle, rubber ball, coin
- 28) Two bodies A and B of masses 15 kg and 20 kg of momentum P_A and P_B are moving with velocities 20 m/s and 15 m/s respectively. The correct conclusion about their momentum is:

- A) $P_A = P_B$ B) $P_A < P_B$ C) $P_A > P_B$ D) $P_A = P_B = 0$ 29) The force required to increase the velocity of a body of mass 'm' from 5 m/s to 20 m/s in 't' seconds is:

- A) $\frac{-15m}{t}$ N B) $\frac{25m}{t}$ N C) $\frac{15m}{t}$ N D) $\frac{-25m}{t}$ N
- 30) A swimmer goes forward during swimming because,
 - The swimmer pushes the water side ways by his hands and in return water is circulated.
 - B) The swimmer pushes the water backwards by his hands and in return water pushes him forward.
 - The swimmer pushes water upwards by his legs and in return water pushes him forward.
 - The swimmer pushes water by his legs and in return upward thrust of water D) pushes him upwards.

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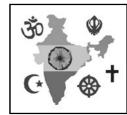
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31)	This	is chief feature of Chola's administration is popular even today.					
	A)	Self governance of the village	B)	Federal system of government			
	C)	Parliamentary form of government	D)	Self governance of districts			
32)	One	of the functions of local self gov	ernn	nent			
	A)	Providing security to the members of Panchayat					
	B)	Inviting the people of other states					
	C)	Conducting conference in the interr	atior	nal level			
	D)	Saving and Protecting the property of Panchayat					
33)	The	e special feature of Kailasa temple built by the Rashtrakutas is					
	A)	The highest temple of Asia					
	B)	The first temple built of Marble roo	k				
	C)	Monolith Construction					
	D)	Pink sand stone from Rajasthan is		to build this temple			
34)		main reason for the causes of tie					
	A)	Latitudes and longitudes	B)	-			
	C)	Gravitational pull of planets	D)				
35)		e high domestic usage of air conditioning and refrigerator is responsible for					
	A)	Depletion of ozone layer		Destruction of Troposphere			
	C)	Depletion of Themosphere					
36)		wadays our markets are flooded with foreign made goods because of					
	A)	Urbanisation	B)	Decentralization			
25)	C)	Globalization	D)				
37)		of the contributions of Rajputs t					
	A)	Mahabalipuram Pancharatha	B)				
20)	C)	Chaityalaya of Karle		Basadi of Mount Abu			
38)		Mohamud Ghazni had not invaded India,					
	A)						
	B)	The temple of Somanatha would not have been destroyed					
	C)	The Kingdom of Delhi would not have been established					
20)	D)	The Qutub Minar would not have be					
39)		Ramanujacharya advocated 'Jeeva' and 'Prakruthi' are under the control					
	of Brahma while Shankaracharya advocated						
	A)	Devotion of pure soul is the way to reach God The divine soul and the hymen soul have a land and servent relationship					
	B)	The divine soul and the human soul have a lord and servant relationship					
	C)	The world is maya, an illusion; Brahma is the absolute truth					
40)	D)	The world is not maya or illusion. It is as true as divine soul					
40)		e chief feature of the architecture of Vijayanagara is					
	A)	The huge auditorium with many pillars					
	B)	The auditorium with Indo-Sarsenic style					
	C) D)	Indo-Greek style of auditorium A vast dome structure with pillars					
	וע	11 vasi dome su detale with pillars					

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41) The given picture advocates this particular fundamental right of the constitution

- A) Cultural and Educational Rights
- B) Right to Religion
- C) Right against exploitation
- D) Right to Equality



42) The meaning of the word 'Secular' in our constitution

- A) The equality of all religions
- B) Discrimination on caste

C) Out of caste

D) Sovereign Nation

43) With respect to financial bill, the Lok Sabha is more powerful than Rajya Sabha because

- A) Rajya Sabha does not have power to hold financial bill
- B) Rajya Sabha can hold the bill passed by Lok Sabha only for 14 days
- C) Lok Sabha can hold the bill passed by Rajya Sabha only for 14 days
- D) Lok Sabha has the power of sending the financial bill to the President without sending it to Rajya Sabha

44) The right statement related to the election of the president of India is

- A) Article 54 and 55 states the method of election of the president of India
- B) The president of India is elected by the members of both the houses of Parliament
- C) The only elected members of Delhi and Puducherry elect the president
- D) The Chief Justice of Supreme Court elects the president

45) The power is distributed between the Central and the State Government in India. This indicates

A) Republic system

B) Parliamentary form of government

C) Federal system

D) Democratic Republic system

46) The child knows it's mother tongue first from

A) Text book

B) Friends

C) Mass Media

D) Family

47) The family has been classified on the basis of marriage into

- A) Matriarchal and Patriarchal
- B) Matriarchal and Monogamy
- C) Monogamy and Polygamy
- D) Patriarchal and Polygamy

48) The most important agency of socialization is peer group because

- A) It gives religious base for social life
- B) Children learn many aspects of social behaviour from friends
- C) They contribute more for the economic development of a Nation
- D) They study in same class rooms

49) We should switch off all electric lights when not in use, because

- A) They are exhaustible energy sources
- B) They are non-exhaustible energy sources
- C) They can be reused
- D) They will increase the atmospheric temperature

50) The density of population means

- A) The average number of people who are living in one kilometer
- B) The total number of people living in an area
- C) The average number of people who are living in one square kilometer
- D) The density of people living in an area

51) Every citizen should have good health in a nation, because

- A) It increases earnings and richness
- B) It brings respect from others
- C) It leads to property and luxurious life
- D) It increases the standard of life and quality of work

52) The right statement related to the 'division of work' in the principles of Management is

- A) It reduces the production
- B) It earns less profit
- C) It reduces the loss in production
- D) It leads to lack of co-operation among the workers

53) Staffing is the function concerned with

- A) the formulation of plans, policies, strategies etc
- B) the future course of operation for a given period
- C) the recruitment, selection, placement etc
- D) the instruction, guidance, supervision etc

54) The physical division located in the map of Karnataka is

- A) The coastal plain
- B) Malnad
- C) Northern Maidan
- D) Southern Maidan



55) If Charmadi Ghat connects Mangalore and Chikkamagaluru, Agumbe Ghat connects

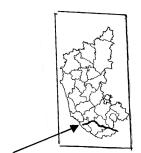
- A) Hassan and Sakaleshpura
- B) Shivamogga and Udupi
- C) Shivamogga and Kundapura
- D) Mangalore and Kundapura

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- 56) The trees of evergreen forest grows tall and dense. The reason for this is
 - A) Low rainfall and low temperature
 - B) High rainfall and low temperature
 - C) Low temperature and high moisture
 - D) High rainfall and high temperature
- 57) Black soil is formed by the disintegration by Basalt rock whereas the soil formed by granite and gneiss is
 - A) The Coastal alluvial soil
- B) Laterite soil

C) Red soil

- D) Mountain soil
- 58) The eastern flowing river located on the map of Karnataka is
 - A) Krishna
 - B) Pennar
 - C) Palar
 - D) Cauvery



- 59) Karnataka is proud for the successful generation of hydro-electric energy for the first time, because
 - A) We have more coal and petroleum reserves in our state
 - B) We have more irrigational canals in our state
 - C) We have more opportunity for the generation of hydel-power in our state
 - D) We have more hydro electric power generating machinery
- 60) Paddy is the food crop in Karnataka where sugarcane is grown as a
 - A) Beverage crop

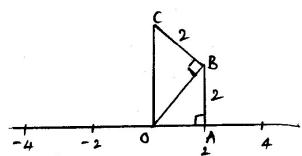
B) Commercial crop

C) Plantation crop

D) Fibre crop

61)	A m	eathematics boo	ak co	ete Re 250 Me	dhur	e huve it for R	25 200	91-E 0 after discount,
01)		centage of disco		·	iuiiui	a buys it for it	13.20	o aitei discount,
	A)	10%	B)	25%	C)	20%	D)	30%
62)	Valu	le of $(4^{-1})^2$ is						
	A)	8	B)	-16	C)	-8	D)	1/16
63)		ch of the follow given triangle?	_	neasurements a	re suf	ficient to consti	uct a	a triangle similar
	A) C)			f given triangle of given triangle				
64)	Average weight of 6 people in a house is 25.5 kg, among them sum of the weights of 5 people is 125 kg then the weight of 6 th person is							
	A)	25.5 kg	B)	28 kg	C)	30 kg	D)	28.5 kg
65)	In the graph of the equation $y = x - 3$, if $y = -1$, then value of x is							
	A)	2	B)	-2	C)	-1	D)	_4
66)	Sum A)	of 4 interior at 2 right angles	ngles	of a quadrilater	al is	3 right angles		
	C)	4 right angles			D)	a straight angle		
67)	The irrational part of $(\sqrt{2} + \sqrt{3})^2$ is							
	A)	$\sqrt{2} + \sqrt{3}$	B)	$\sqrt{6}$	C)	$\sqrt{2}$	D)	$\sqrt{3}$
68)	Rati	onalizing factor	r of th	ne denominator	of $\frac{1}{2\sqrt{2}}$	$\overline{\sqrt{3}}$ is		

D) $\sqrt{3}$ A) $3\sqrt{2}$



In the figure above, length of OC on the number line is represented as the value of

A) $\sqrt{12}$

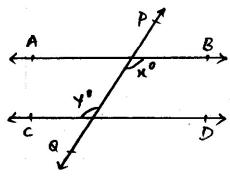
69)

- B) $\sqrt{8}$
- C) $\sqrt{3}$
- D)

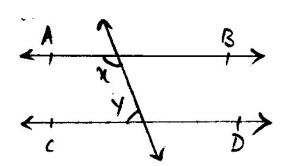
70) An irrational number among these is

- A) $\sqrt{4}$
- B) $-\sqrt{9}$
- C) $\sqrt[3]{8}$
- D) $\sqrt{8}$

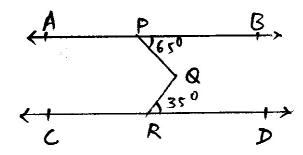
- 71) By using equations $|\underline{AOB} + |\underline{BOC} = 180^{\circ}$ and $|\underline{BOC} + |\underline{COA}| = 180^{\circ}$, if a mathematics teacher writes |AOB + |BOC| = |BOC + |COA|, Euclid's axiom used by the teacher here is
 - A) equal items when added to equals, the sum is equal
 - B) when equal items are subtracted from equals, left parts are equal
 - C) equals are equal to one another
 - D) halves of equals are equal
- 72) In the diagram given, AB \parallel CD, PQ is the transversal correct statement with respect to angle x and y is



- A) x = y
- B) x < y
- C) x > y
- D) $x + y = 180^{\circ}$
- 73) In the diagram, AB||CD, then what will be the respective values of x and y



- A) 30°, 60°
- B) 120°, 60°
- C) 60°, 120°
- D) 60°, 30°
- 74) In the diagram, AB||CD, $|BPQ| = 65^{\circ}$, $|DRQ| = 35^{\circ}$, the measure of |PQR| is



- A) 65°
- B) 110°
- C) 100°
- D) 50°

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75) An example for an algebraic expression having degree 5 is

- A) $3^2 x^5$
- B) $2x^3 + x^2$
- C) $2^5 x^4 + 3$
- D) $5x^3 + x^2$

76) If $P(x) = x^2-3$ then P(-1) is

- A) -4
- B) -1
- C) -2
- D) 0

77) If P(y) = 2 + y, then zero of the equation is

- A) 0
- B) 2
- C) 1
- D) -2

78) Length and breadth of a rectangle having area $x^2 - 5x + 6$ are respectively

A) (x + 3) and (x + 2)

B) (x-3) and (x-2)

C) (x-6) and (x-1)

D) (x-6) and (x+1)

79) Remainder obtained when $a^3 + 1$ is divided by a + 1

- A) 1
- B) -1
- C) 0
- D) 2

80) Expansion form of $(x+y+z)^2$ is

- A) $x^2 + y^2 + z^2$
- B) $x^2 + y^2 + z^2 + xy + yz + zx$
- C) $x^2 + y^2 + z^2 + 2xy + 2yz + 2zx$
- D) $x^2 + y^2 + z^2 + 3xyz$

81) Cuboid having the base area (3x) m² has the volume $(3x^2-12x)$ m³, then its height is

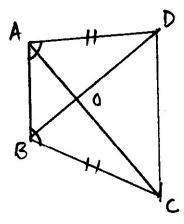
A) (x-12) m

B) (x+4) m

C) (3x-4) m

D) (x-4) m

82) In the diagram, AD = BC and |DAB| = |CBA|, then a pair of similar triangles are



A) $\triangle ABD$ and $\triangle ABC$

B) $\triangle ABD$ and $\triangle BDC$

C) AABC and AADC

D) ΔABO and ΔDCO

83) Three angles |A, B| C of $\triangle ABC$ are in the ratio 2:3:4, then the longest side is

- A) BC
- B) AB
- C) CA
- D) AD

84)	Steps of constructing angle $112\frac{1}{2}^{\circ}$ using compass and scale are given								
	A) C) Steps	construction of drawing a straig s of construction	ght lin	ie	B) D)	halving a right angle halving 45°			
	A) 1	A, B, C, D		D, C, B, A	C)	C, A, B, D	D)	C, D, B, A	
85)		•			and	D are respective	ely the	e midpoints of AE	
	and	BF, then CD me	easur	es		B			
				- /			•		
				c /-		6	- D		
							1_		
				E					
	A)	9.5 cm	B)	8.5 cm	C)	8.75 cm	D)	9 cm	
86)				_			e mid	points of sides of	
	an e	quilateral trian	gle h	aving the perin	1eter	24 cm is			
	A)	8 cm	B)	4 cm	C)	6 cm	D)	3 cm	
87)	4 an	gles of a quadri	later	al are in the rat	io 3 :	5:7:9. Big au	ngle n	neasures	
- ,	A)	75°	B)	105°	C)	135°	D)	45°	
88)	Two	diagonals are d	rawi	ı in a rhombus.	then 1	thev			
00)	B) Two diagonals are drawn in a rhombus, then A) bisect at right angles B)					bisect slantly			
	C) meet at the end points		D)	are parallel					
89)	Quadrilateral having opposite sides parallel and unequal is								
0)	A)	kite	B)	rhombus	(C)	trapezium	D)	rectangle	
00)						-	D)	rectangle	
90)	90) In which of the following quadrilateral, diagonals are equal								
	A)		B)		C)		D)		

* * * *