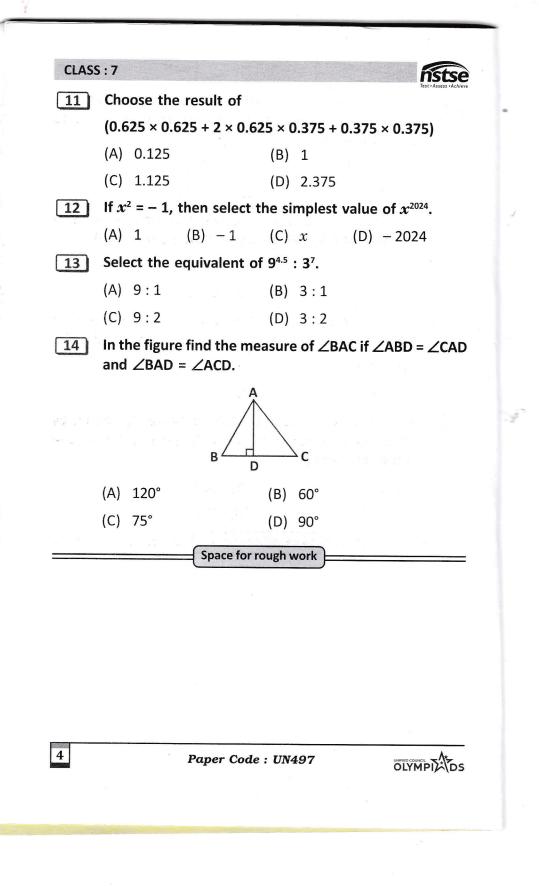
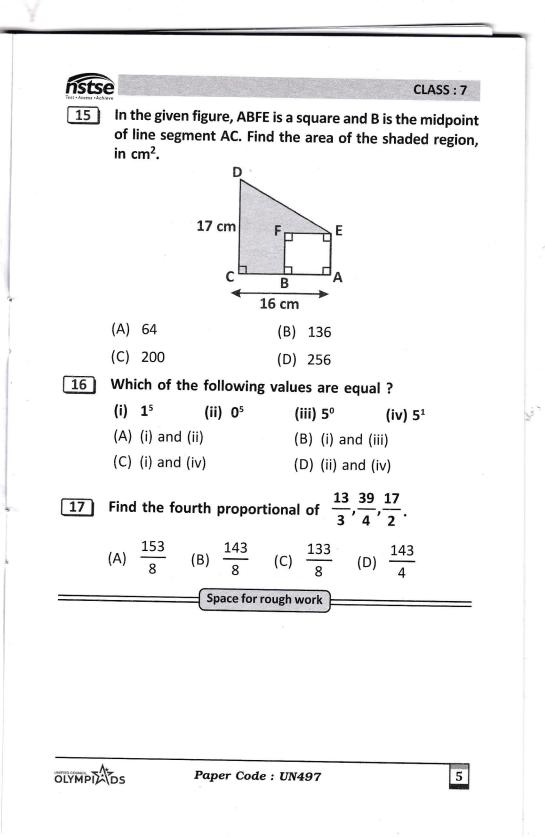
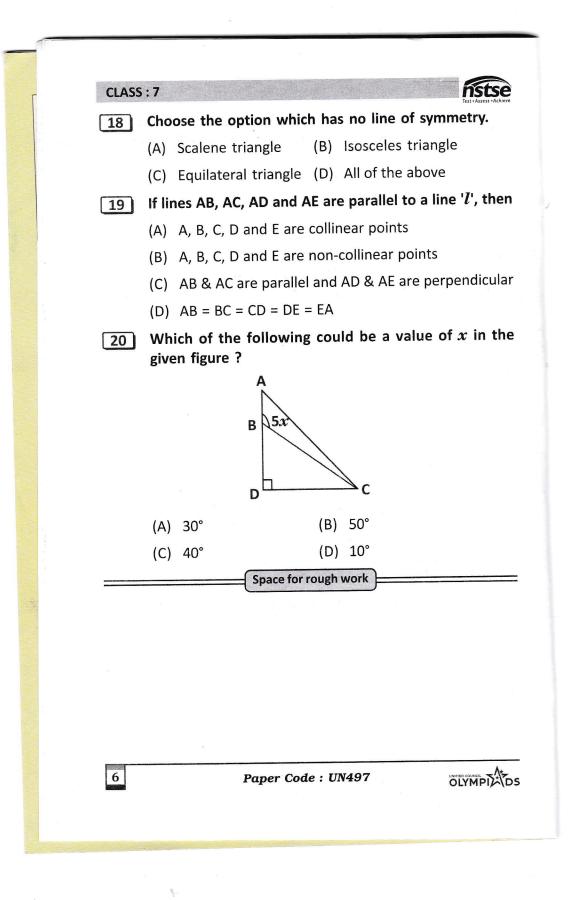


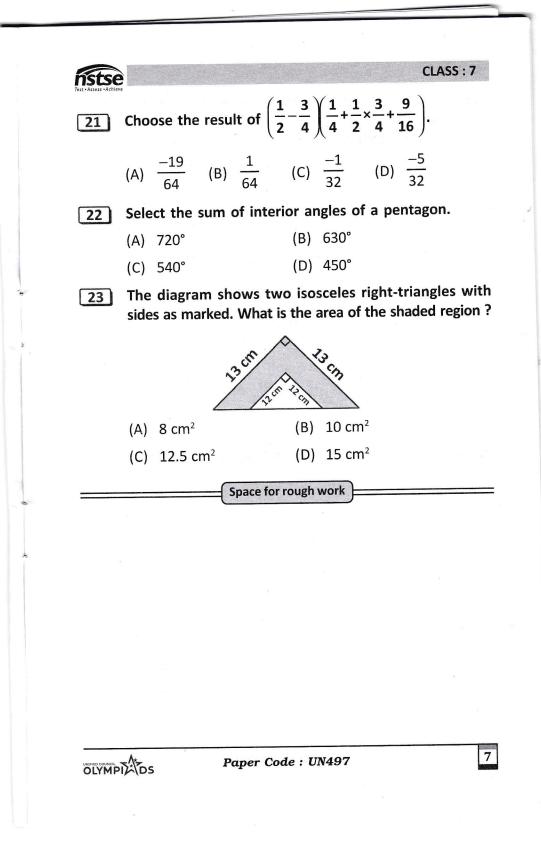
	the largest of these three integers. (A) 62 (B) 63
	(C) 64 (D) 65
05	By what number should the expression $12xy$ be divided to get $4y$?
	 (A) 3y (B) 3x² (C) 3xy (D) 3x
06	A shopkeeper buys two bags of tea, one containing
	$3\frac{3}{4}$ kg and the other containing $24\frac{1}{4}$ kg. He mixed the
	tea together and packed it in 40 equal packets. How much tea is contained in each equal packet ?
	(A) $\frac{37}{40}$ kg (B) 1 kg (C) $\frac{7}{10}$ kg (D) $\frac{17}{20}$ kg
	Space for rough work
	Space for rough work

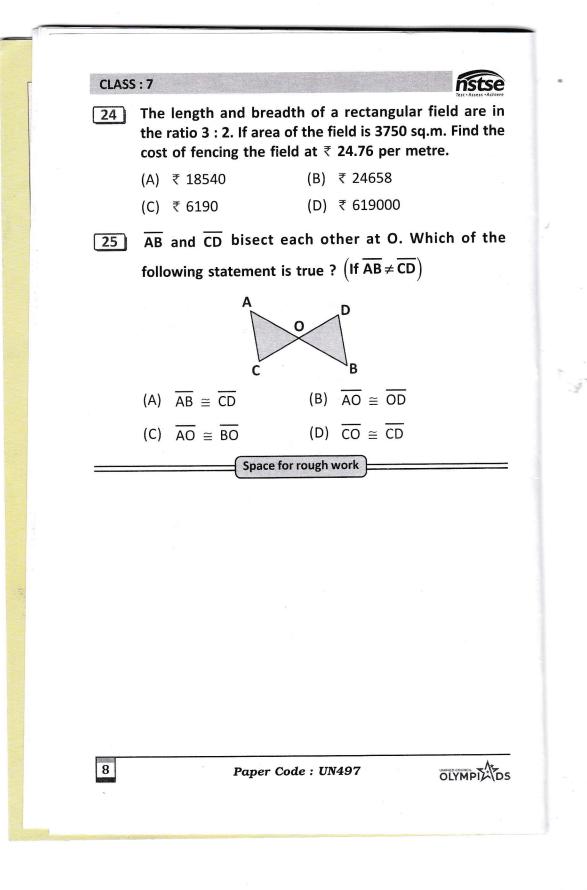
nsts 07	Given belo	w are the mea	sures of two angle	ASS:7 es of a
	angled triar	ngle ?	the measures of a	n acute
	(A) 45°,45°	(B)	35°, 45°	
	(C) 30°, 40°	' (D)	25°, 75°	
08	The areas of the area of	f squares P and P is 144 sq cm, f	Q are in the ratio of the contract of the perimeter of th	4:9. If f Q.
	(A) 17 cm	(B)	72 cm	
	(C) 27 cm	(D)	324 cm	
09	lf 'a', 'b', 'c' 8 and a < b <	and 'd' are fou < c < d, what is t	r consecutive multi he value of (a – c) (c	ples of I – b) ?
	(A) –256	(B)	16	
	(C) 256	(D)	-16	
10	A number is 20%. What resultant nu	percent of the	% and then decrease original number	sed by is the
	(A) 105	(B)	100	
	(C) 120	(D)	125	
		Space for rough v	vork	

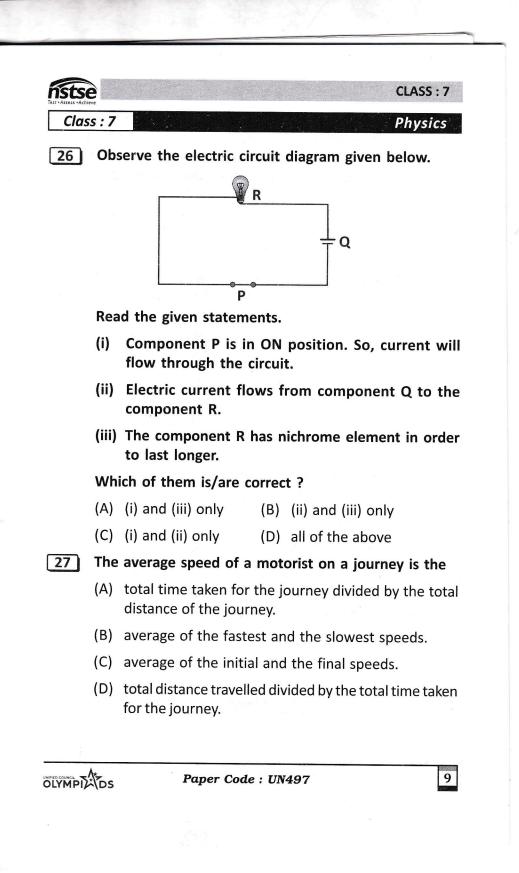












28 Given below is a metal rod of length 50 cm. 4 drops of wax, w, x, y and z are placed at the distance of 5 cm, 10 cm, 15 cm and 25 cm respectively from the end M. Look at the diagram carefully and answer the questions.

	5 cm	10 cm	15 cm	25 cm	
M	\bigcirc	\circ	\bigcirc	\bigcirc	N
	W	х	У	Z	

When heated from the end M, drop w falls off first in 2 minutes time. What will be the time taken for the drops x, y and z to fall in minutes ? Assume rate of heat flow is inversely proportional to the distance of heat flow.

(A)	4, 6, 10	(B)	3, 9, 12
(C)	5, 10 , 15	(D)	6, 12, 18

29 A student carried out an experiment and found out that nichrome wire was the best material she had for making a heating coil. Which variable did she change while conducting her experiments ?

- (A) Length of the wire (B) Number of batteries
- (C) Number of bulbs (D) Material of the wire
- 30 A boy rides a bicycle and travels at 50 km/h for 2 hours. The remaining 30 km is covered at 60 km/h. What is the average speed of the bicycle ?
 - (A) 55 km/h (B) 50 km/h
 - (C) 52 km/h (D) 65 km/h

Space for rough work

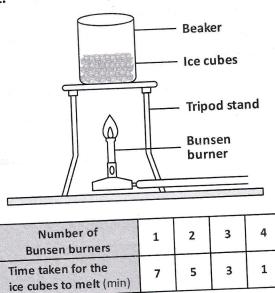
10

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Test · Assess · Achi	e			CLASS : 7			
31	the simi a di	Four students W, X, Y and Z each had a glass filled with the same amount of water. They put 10 ice cubes of similar size into each of their glasses. Each of them used a different method to prevent their ice cubes from melting. Which student's action is correct ?					
	(A) Student W wrapped her hands tightly around her glass.						
	(B)	B) Student X wrapped his glass with a plastic sheet.					
	(C)	Student Y covere cold towel.	ed the glass and	wrapped it with a			
	(D)	Student Z cover with newspaper.	ed the glass and	wrapped his glass			
32		ntify the most tromagnet and i	¥	l for core of an			
		Core	Application				
	(A)	Soft iron	Electric bell				
	(B)	Brass	Electric iron	an an part an a			
	(C)	Aluminium	Speaker	n e At _{rice} n			
	(D)	Steel	Crane	на II ⁸			
33	33 If an object moves with a constant speed, the distance- time graph is a						
	(A)	straight line.					
	(B)	curved line.					
	(C)	horizontal line to	time axis.				
	(D)	parallel line to ve	elocity axis.				
		Space f	or rough work				
	٨.						
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34 The figure given below is used to find out if the amount of heat will affect the time taken for the ice cubes to melt.



Which of the following statements about the experiment is correct ?

- (A) The number of Bunsen burners should not be changed
- (B) The time taken for the ice cubes to melt when there were 3 Bunsen burners should be 9 min
- (C) When more Bunsen burners were used, the ice cubes melted quickly
- (D) When more Bunsen burners were used, the ice cubes took a longer time to melt

Space for rough work

12

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OLYMPIX DS

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circuit in t	milar bulb is also connected to the same way, Brightness of bulbs	decreases
	i the bulbs are connected in a straigh e voltage decreases.	nt line.
	the bulbs are connected in parallel.	
	(A) and (B)	
	Space for rough work	
	Paper Code : UN497	13





What do you think will happen to the tinned or straw roofs on the house if a strong wind blows in the direction shown ?

(A) The occupants will hear the howling sound of the wind.

- (B) The electrical supplies will be disrupted.
- (C) The roof will be lifted up.
- (D) The roof will fall.

The pH of an aqueous solution of hydrochloric acid is 2. What will be the pH of the acid after the addition of 10 g of sodium chloride ?

(A)	1	(B)	2
(C)	7	(D)	9

Space for rough work

14

37

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OLYMPIX DS

]	Whi	ch of the following statements is true when milk nges into curd ?
		It changes from liquid to semi-solid.
		There is a change in taste.
		Curd cannot be changed to milk.
		All of the above
Ð	Wh diss	ich gas/solution produces hydrogen ions when olved in water ?
	(A)	Dry Cl gas
	(B)	NaOH solution
	(C)	Na_2SO_4 solution
	(D)	Aqueous solution of HCl
0	In	a pressure kerosene stove
		we pump kerosene and convert it into vapours.I. the vapours burn to produce flame.
	sta	hich of the following is true about the above atements ?
	(A) I is a chemical change; II is a physical change
	(В) I is a physical change; II is a chemical change
	(C) Both I and II are physical changes
	([Both I and II are chemical changes
8		Space for rough work

OLYMPIX DS

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41		oxygen to form respective no on-metallic oxide on hydrolys ?
	(A) Sulphur dioxide	(B) Carbon dioxide
	(C) Sulphur trioxide	(D) Nitrogen dioxide
42	A concentrated sugar different shapes. Identi	solution on cooling forme fy the process.
	(A) Crystallisation	(B) Evaporation
	(C) Galvanisation	(D) Expansion
43	A boy dissolved the for separately.	ollowing substances in wate
	P - Tooth paste	Q - Milk of magnesia
	R - Vinegar	S - Shower cream
	Which dissolved substa	nces will turn red litmus blue
	(A) Ponly	(B) Q and R only
	(C) P, Q, and S only	(D) P, R and S only
	Space for r	ough work
16	Paper Code	

	 Switching on a water filter Making yoghurt at home Ripening of fruits Magnetising a piece of iron 				
	Which of them are examples of physical changes ?				
	(A) I and IV only (B) II and III only				
	(C) III and IV only (D) All of the above				
45	A paper strip held between one's thumb and forefinger moves upward on blowing air over it because air pressure				
	(A) above the strip increases.				
	(B) above the strip decreases.				
	(C) above the strip becomes zero.				
	(D) below the strip becomes zero.				
	Space for rough work				

46	Stu	dy the charac	teristics of	an organism g	given belov
			prophytic molecular	ode of nutrition. aying organic	
ļ	Base	ed on the abo	ve informa	tion identify th	e organism
	(A)	Mucor	(B)	Pitcher plant	
	(C)	Amoeba	(D)	Venus flytrap	
47	Stud	ly the figure	given belov	N.	
N	lam esp	e the organ	ý ism X and	the process	Y involved
		Yeast, normal	diffusion		
(Frog, cutaneo			
()		Earthworm, pu			
(1	D) I	Plants, transpi	ration		
		Spar	ce for rough w	/ork	



48 Which of the following is not true about insectivorous plants ?

- (A) They are green in colour and syntheize their own food.
- (B) They do not undergo photosynthesis.
- (C) They grow in those soils which do not contain sufficient nitrogen mineral.
- (D) They feed on insects to get their nitrogen nutrition.

Column I		Column II
Erythrocytes	1.	Pale yellow
Blood plasma	2.	Plasma without clotting factors
Serum	3.	Red blood cells
Spleen	4.	White blood cells
Leucocytes	5.	Graveyard of RBC's
	Erythrocytes Blood plasma Serum Spleen	Erythrocytes1.Blood plasma2.Serum3.Spleen4.

49 Match the columns.

(A) a - 1; b - 2; c - 3; d - 4; e - 5

- (B) a 3; b 1; c 2; d 5; e 4
- (C) a 5; b v; c 3; d 2; e 1
- (D) a 2; b 3; c 4; d 5; e 1

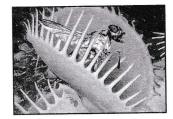
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OLYMPIZ DS



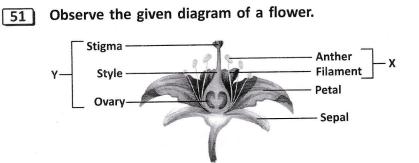


The figure of an insectivorous plant is given below.



Identify the purpose for which this plant undergo movement.

- (A) To obtain support.
- (B) To obtain nutrients.
- (C) To protect themselves from touch.
- (D) To disperse seeds.



Identify the parts X and Y in the above figure.

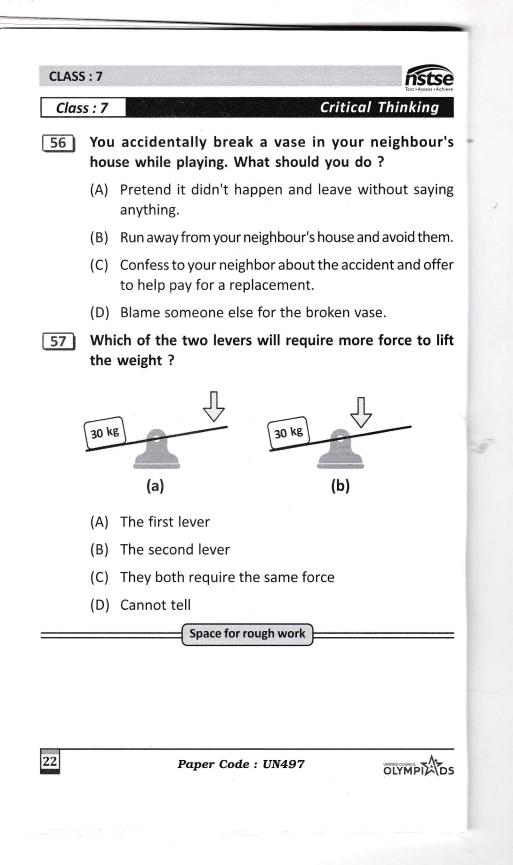
	X	Ŷ		
(A)	Pistil	Stamen		
(B)	Sepals	Petals		
(C)	Stamen	Pistil		
(D)	Stamen	Petal		

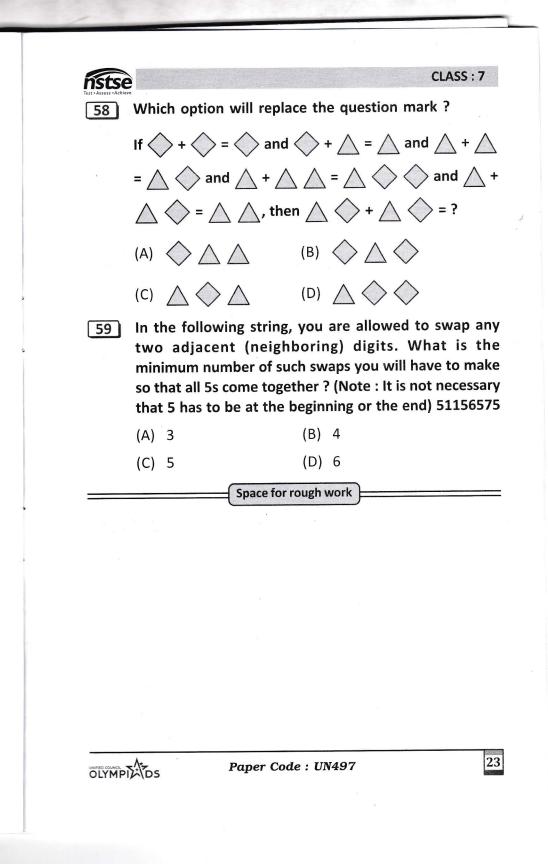


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	What c	Blowing exhaled air Cork Lime water	d from t	ne above activ	/ity ?
		e lime water tu			-
	•	e process of ex			ion is tested
		esence of CO_2 ca			
		of the above			
53	Which HCl ?	of the followin	ig parts o	f digestive syst	tem secrete
	(A) O	esophagus	(B)	Pharynx	
	(C) St	omach	(D)	Mouth	
54	The sp	ecialized root	s that re	spire are seer	in:
	(A) In	deserts	(B)	Gardens	
		angroves		On land	
55		fy the pigmen that helps to			l cells of th
	(A) A	nthocyanin	(B)	Melanin	
	(C) H	aemoglobin	(D)	Carotene	







	20110			
\boldsymbol{c}	1.1	98 9	1000	7
	1.0		1000	
-	1000			

60 In the following question a statement is given, followed by two conclusions. Give answer:

Statements :

Irregularity is a cause for failure in exams.

Some regular students fail in the examinations.

Conclusions :

- (I) All failed students are regular.
- (II) All successful students are not regular.

Choose the correct option.

- (A) Only conclusion I follows.
- (B) Only conclusion II follows.
- (C) Either I or II follows.
- (D) Neither I nor II follows.

Space for rough work



Paper Code : UN497

