

Class - VII

ENTRANCE TEST CUM SCHOLARSHIP (SAMPLE PAPER-3)

[Time: 3 Hours]

[Max Marks: 450]

A.General:

- 1. *This booklet is a Question Paper containing 150 questions.*
- 2.Blank Papers, Clipboards, Log Tables, slide rules, calculators, cellular phones and electronic gadgets in any form are not allowed to be carried inside the examination hall.
- 3. The answer sheet, a machine-readable optical mark recognition sheet (OMR Sheet), is provided separately.
- 4.DO NOT TAMPER WITH THE OMR OR THE BOOKLET.
- 5. Please fill your roll number correctly in the OMR sheet (answer sheet).
- 6.Both Question Paper and OMR Answer Shee t will be submitted after completion of this examination.

B.Question Paper Format and marking scheme:

- 1.The Question Paper consists of five parts (Part I: MAT, Part II: Physics, Part III: Chemistry, Part IV: Biology, Part V: Mathematics).
- 2. Each Question carries +3 marks for correct answer and -1 mark for incorrect answer.

MAT

Directions : (Q. Nos. 1-2) In the following questions, there is an address which has been reproduced against (a), (b), (c) and (d), three of which have some mistakes or the other. The one without any mistake is your answer.

- 1. Mr. Ramachandran, 1068/90, A.F.O., Bangalore (Karnataka)
 - (a) Mr. Ramachandren, 1068/90, A.F.O. Bangalore (karnataka)
 - (b) Mr. Ramachandran, 106/8/90, A.F.O. Bangalor (Karnataka)
 - (c) Mr. Ramachandran, 1086/90, A.F.O. Banglore (Karnataka)
 - (d) Mr. Ramachandran, 1068/90, A.F.O. Bangalore (Karnataka)
- 2. Tarasankar Rastogi, A-22, Indrant Road, Sundargarh 436065
 - (a) Tarasankar Rastogi, A-22, Indranit Road, Sundargarh 436065
 - (b) Tarashankar Rastogi, A-22, Indrant Road, Sundargarh 436065
 - (c) Tarasankar Rastogi, A-22, Indrant Road, Sundarragarh 436065
 - (d) Tarasankar Rastogi, A-22, Indrant Road, Sundargarh 436065

Directions: (Q. Nos. 3-4). From amongst the given alternatives, select the one in which the set of numbers is most like the set of numbers given below:

3.	(7, 12, 22, 37)					
	(a)	2, 7, 12, 32	(b) 3, 8, 18, 33	(c) 4, 8, 19, 34	(d) 8, 13, 22, 38	
4.	(10,	12, 15)				
	(a)	(21, 23, 27)	(b) (30, 32, 36)	(c) (60, 62, 66)	(d) (68, 70, 73)	
	Dire	ections : (Q. Nos.	5-7). Find the odd word/le	etter/numbers from the gi	ven responses.	
5.	(a)	Yearly	(b) Quickly	(c) Weekly	(d) Monthly	
6.	(a)	EPH	(b) FQI	(c) HSK	(d) KWO	
7.	(a)	ECDBA	(b) OMNLK	(c) WUVTS	(d) SQRPO	
8.	If G	ECA means 8642,	then HFBD means			
	(a)	9735	(b) 7953	(c) 7935	(d) 5379	
9.	Am	an said to a lady, "	Your mother's husband's	sister is my aunt". How	is the lady related to man?	
	(a)	Sister	(b) Mother	(c) Daughter	(d) Grand daughter	
	Directions: (Q. Nos. 10-14) Read the following information carefully and answer the questions.					
	At a	party A, B, C, D a	nd E are sitting in a circle	. The group comprises a p	professor, an industrialist and	
	a bu	sinessman. The busi	inessman is sitting in betw	een the industrialist and l	is wife D. A, the professor is	
	mari	ried to E, who is the	ie sister of B. The indust	rialist is seated to the rig	ght of C. Both the ladies are	
10	uner	npioyeu.				
10.	(2)	Reath or	(h) I la al a	(a) Duath an in lass	(d) Commethe determined	
11	(a)	brother	(b) Uncle	(c) brother-in-law	(d) Cannot be determined	
11.	A 1S	sitting to the right	tof	· · · -		
	(a)	the industrialist	(b) his wife	(c) D	(d) Cannot be determined	
12.	Who	o is the industrialis	st?			
	(a)	D	(b) A	(c) B	(d) Cannot be determined	

13.	Who is unmarried in the group?							
	(a)	Professor	(b) Industrialist	(c) Businessman	(d) Cannot be determined			
14.	Who among them must be graduate ?							
	(a)	В	(b) A	(c) C	(d) None of these			
	Directions: (Q. Nos. 15-18) Read the following information carefully and answer the questions.							
	Asha and Charu are good in Mathematics and Athletics. Deepa and Asha are good in Athletics and Studies, Charu and Beena are good in General Knowledge and Mathematics. Deepa, Beena and Ela are good in Studies and General Knowledge. Ela and Deepa are good in Studies and Art.							
15.	Who	is good in Studie	s, General Knowledge, A	Athletics and Art?				
	(a)	Asha	(b) Beena	(c) Charu	(d) Deepa			
16.	Who	is good in Studie	es, General Knowledge a	nd Mathematics?				
	(a)	Asha	(b) Beena	(c) Charu	(d) Ela			
17.	Who	is good in Studie	es, Mathematics and Ath	letics?				
	(a)	Asha	(b) Beena	(c) Charu	(d) Deepa			
18.	Who	is good in Athle	tics, General Knowledge	and Mathematics?				
	(a)	Asha	(b) Beena	(c) Charu	(d) Deepa			
19.	Dhaka : Bangladesh : : Lira : ?							
	(a)	South Korea	(b) Nepal	(c) Italy	(d) North Korea			
20.	Yoge	eshwar Dutt : Wre	estling : : Saina Nehwal	:?				
	(a)	Badminton	(b) Chess	(c) Table Tennis	(d) Football			

Directions (21-23) : In each of the following questions, choose the correct water image for the figure 'X'.

21. Problem Figure









22. Problem Figure

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23. Problem Figure



Directions (24-26) : In each of the following questions, choose the correct mirror image for the figure 'X'.

24. Problem Figure



Directions (27-28) : Select the figure from option figures which will continue the same series as given in the problem figures.

27. Problem Figure

28.





Directions (29-31) : In each of the following questions, find out which of the answer figure is complete is the figure matrix?

29. Problem Figures



(b)





30. Problem Figures





(c)

(d)

31. Problem Figures



Directions (32-33) : As per given relationship between figure (A) and (B), find the figure which establish a similar relationship between (C) and (D).

32. Problem Figures

33.



Directions (34-35) : On the basis of the following Venn-diagram, answer the questions given below. The rectangle represents artists, the circle represents player and the triangle represents doctors,



- 34. How many artists are players but not doctors?
 (a) 25
 (b) 20
 (c) 10
 (d) 30
 35. How many artists are neither player nor doctor?
 - (a) 40 (b) 10 (c) 30 (d) 25

Directions (36-38) : From the given alternatives, complete the problem figure.

36. Problem Figure



Directions (39-41) : Find which of the alternative from the answer figures will follow, if the problem figure is folded in a certain defined pattern along the dotted line?

39. Problem Figure



40. Problem Figure



42. How many squares does the following figure contain?





43. Problem Figures



45. Problem Figures



47. What is the number of straight lines in the following figure?



Directions (48-51) : In each of the following questions, there is a diagram(X) in which one or more points have been placed in certain positions. Examine the placement of these points carefully. From the four choices, select the one in which the placement of points is similar to that in the diagram.

48. Problem Figure



(a)







Problem Figure 49.



Directions (52-56) : In each of the following questions, choose the correct mirror-image of the figure (X) from amongst four alternatives (a), (b), (c) and (d), given along with it.





Directions (57-59) : In the following questions, find out the same relationship between (III) and (IV) as given between (I) and (II)

57. Problem Figures

58.



59. Problem Figures

(a) 7





(b) 8



(c) 9

(d) 10

	PHYSICS					
61.	Which of the following is a poor conductor of heat?					
	(a) Vacuum	(b) Water	(c) Air	(d) All the above		
62.	1 calorie =					
	(a) 1.8 J	(b) 2.4 J	(c) 4.2 J	(d) 5.1 J		
63.	–40°C is numerically	equal to				
	(a) -40°F	(b) 233 K	(c) -32°F	(d) All the above		
64.	Thermometer works of	on the principle of:				
	(a) Substances expand	l on heating				
	(b) Substances contract	ct on heating				
	(c) Substances have n	o effect on heating				
	(d) None of these					
65.	The image formed by	a concave mirror can b	be			
	(a) real	(b) virtual	(c) magnified	(d) All of the above		
66.	Unit(s) of energy is:					
	(a) Joule	(b) Calorie	(c) Kelvin	(d) Both (a) and (b)		
67.	Long-sightedness is ca	aused due to				
	(a) eye ball being too	short	(b) eye ball being too	long		
	(c) the blind spot on the retina (d) None of the above					

- **68.** When a body covers first one third distance with speed 1 m/s, the second one third distance with speed 2 m/s and the last one third distance with speed 3 m/s, then the average speed is_____.
 - (a) 2 m/s (b) 1.79 m/s (c) 2.66 m/s (d) 1.64 m/s
- **69.** Distance versus time graph of an object is as shown in the figure. The average speed of the object in m/s is.



75. Figure shows the displacement (s) - time (t) graph of a particle moving on the X-axis. Which of the following options is correct?



- (a) The particle is at rest.
- (b) The velocity of particle increases up to time t_0 and then becomes constant.
- (c) The speed of particle increases up to time t_0 and then becomes constant.
- (d) The particle moves at a constant velocity up to a time $t_{0'}$ and then stops.
- **76.** Which of the following cannot be the distance time graph?



	(d) Shearing is usually done in summer season.				
84.	A salt formed by the partial neutralization of hydroxyl ions of a base by an acid is called				
	(a) normal (b) acidic	(c) basic	(d) None of these		
85.	X is present in the stomach. However, p the intake of milk of magnesia to undo	presence of excess of it can the effect of X. What is X	uses indigestion, which requires ?		
	(a) HCl (b) H_2SO_4	(c) NaOH	(d) KOH		
86.	Match the entries given in column A wi	ith the appropriate ones i	n column B.		
	Column A	Column B	Column B		
	(p) Carbonic acid	(i) Baking Powder			
	(q) Tartaric acid	(ii) Antacid			
	(r) Caustic soda	(iii) Soft drink			
	(s) Milk of magnesia	(iv) Additive in food	stuffs		
		(v) Soap industry			
	(a) p-iii, q-i, r-v, s-ii	(b) p-iii, q-i,iv, r-v	7, s-ii		
	(c) p-iii, q-i, r-v,iv, s-ii	(d) p-iii, q-ii, r-iv,	s-ii		
87.	Which of the following colours is given	by phenolphthalein in a	basic salt solution?		
	(a) Yellow (b) Pink	(c) Orange red	(d) Colourless		
88.	Chemical name of Oil of Vitriol is				
	(a) Nitric acid (b) Acetic acid	(c) Sulphuric aci	d (d) Sodium hydroxide		
89.	The most commonly used natural indic	cator 'Litmus' is extracted	from :		
	(a) Lichens (b) Turmeric	(c) Beet Root	(d) China rose		
90.	Substances which are bitter in taste, fee	el soapy on touching are l	known as:		
	(a) Acids (b) Bases	(c) Indicators	(d) Neutral solution		
91.	Which of the following substances use	d in agriculture does not	cause water pollution to large		
	extent?				
0.0	(a) Manures (b) Pesticides	(c) Fertilizers	(a) insecticides		
92.	The correct way of making a dilute solu	ition of an acid is to :	alar		
	(a) add water to acid.	(b) add acid to w	ater.		
03	Which of the following set of substance	(u) add water to a			
95.	(a) grapes lime water	(b) vinegar soan			
	(c) curd milk of magnesia	(d) curd_vinegar			
94.	On which of the following day is world	water day observed?			
•	(a) 22 March (b) 14 November	er (c) 2 October	(d) 21 December		
95.	Salt used in purification of water is :	、 /	、 <i>/</i>		
	(a) potash alum (b) epsom salt	(c) green vitriol	(d) blue vitriol		

96.	. Match the entries given in column A with the appropriate ones in column B.								
			Col	olumn A			Column B		
	(]	p)	Sodium dił	hydrogenphospł	hate	(i)	Basic salt		
	(q)	Calcium hy	ydroxychloride		(ii)	Gun powder		
	(r)	Nitre		((iii)	Manufacture of glass		
	(s)	Ammoniun	m carbonate	((iv)	Acidic salt		
						(v)	Smelling salt		
	(a)]	p-i	v, q-i, r-ii,iii,	S-V			(b) p-iv, q-i,v, r-ii,iii, s-	-V	
	(c)]	p-i	v, q-v, r-ii,iii,	, s-i			(d) p-i, q-iv, r-ii,iii, s-v	,	
97.	Gener	all	ly, pickles are	e stored in :					
	(a) ti	n v	vessels or glas	ss vessels.			(b) tin vessels or plasti	c vessels.	
	(c) g	las	s vessels or p	lastic vessels.			(d) aluminium vessels	or tin vessel	s.
98.	The p	air	of ions whic	ch does not caus	e hardı	ness	s of water is :		
	(a) sı	ılp	hate, chlorid	le			(b) bicarbonate, chlori	ide	
	(c) b	ica	rbonate, sulp	phate			(d) nitrate, phosphate		
99.	•. On passing electricity through acidulated water, the gaseous products obtained are collected two separate test tubes A and B. The volume of the gas collected in test tube A is double					re collected in is double the			
	(a) H	le '	drogon and or	vygop	J. Idein	iiiy	(h) Oxygon and hydro		espectively.
(a) Hudrogen perevide and evugen (d) Oxygen and water				vapour					
100	(c) Hydrogen peroxide and oxygen (d) Oxygen and water vapour								
100.	(a) E	uca	alyptus leave	es (b) Grape lea	ves		(c) Mulberry leaves	(d) Neem le	eaves
	BIOLOGY								
101.	Which	าด	of the followi	ing organisms fe	ed on a	dead	l and decaying matter	?	
2020	(a) C	usi	cuta	(b) Fungi			(c) Green plants	(d) Both (a`) and (b)
102.	Which	n r	oart of the lea	af controls the r	ate of	loss	of water to the air?		
	(a)]	Mi	drib	(b) Stomata			(c) Vascular bundles	(d) Veins	
103.	The a	ssi	milatory pov	wer which is for	rmed d	lurir	ng light reaction of ph	otosynthesis	includes:
	(a) .	AT	P				(b) Food		
	(c)	D ₂	& CO ₂				(d) AMP		
104.	A plac that p	e 1 la	receives very ce will be	[,] little rainfall and and	d the te	emp ·	erature is high through	out the year.	The climate of
	(a) h	ot,	dry	(b) hot, hum	id		(c) cold, dry	(d) cold, hi	umid
105.	The n	nill	k protein spl	litting enzyme f	ound i	n th	e stomach of infants i	is:	
	(a) 1	Pej	psin	(b) Rennin			(c) Lipase	(d) Protease	e
106.	Emuls	sifi	cation of fats	s is the function	of:				

	(a) bile salts	(b) pancreatic juice	(c) intestinal juice	(d) None of these		
107.	The process of conver	rsion of glucose to pyruv	ate during cellular respi	iration occurs in :		
	(a) Mitochondria	(b) Cytoplasm	(c) Golgi body	(d) Lysosome		
108.	Carbon dioxide comb	ines with haemoglobin t	to form a product called	as :		
	(a) Carbamino haem	oglobin	(b) Oxyhaemoglobin			
	(c) Carboxyhaemogl	obin	(d) None of these			
109.	Role of chlorophyll du	uring photosynthesis is:				
	(a) absorption of sola	ar energy	(b) synthesis of glucos	e		
	(c) synthesis of oxyg	en	(d) Both (a) and (c)			
110.	What is the adaptation	on of red-eyed frogs to c	limb trees?			
	(a) Have long tails	for grasping branches of	f trees.			
	(b) Have long claws	s to grasp branches.				
	(c) Their nands and (d) Developed stick	a reet are modified to he	troos			
111	The green pigment in	the leaves is	uees.			
111.	(a) Chlorophyll	(b) Hemoglobin	(c) Protoplast	(d) Haemocyanin		
112	Tiny pores on the sur	face of leaves are		(u) Huemocyunni		
112.	(a) Lamina	(b) Stomata	(c) Chlcrcphyil	(d) leaf stalk		
113.	Life processes the live	ing organisms perform a	are	()		
	(a) Nutrition and exc	retion	(b) Respiration and	d reproduction		
	(c) Growth and respo	onse to stimuli	(d) All of these	1		
114.	The substance from w	The substance from which an organism derives energy and materials for growth and maintenance				
		0				
	is called	0				
	is called (a) nutrition	(b) consumption	(c) food	(d) all of these		
115.	is called (a) nutrition Algal component of li	(b) consumption ichen is autotrophic. It p	(c) food rovides food material to	(d) all of these the fungal component but		
115.	is called(a) nutritionAlgal component of liin return(a) The fungue prov	(b) consumption ichen is autotrophic. It pr	(c) food rovides food material to minerals	(d) all of these the fungal component but		
115.	 is called (a) nutrition Algal component of line in return (a) The fungus prov (b) The lichen prov 	(b) consumption ichen is autotrophic. It p vides shelter, water and ides shelter, water and t	(c) food rovides food material to minerals.	(d) all of these the fungal component but		
115.	 is called (a) nutrition Algal component of line in return (a) The fungus provided (b) The lichen provided (c) Both (1) and (2) 	(b) consumption ichen is autotrophic. It p vides shelter, water and ides shelter, water and 1	(c) food rovides food material to minerals. minerals to the algae.	(d) all of these the fungal component but		
115.	 is called (a) nutrition Algal component of line in return (a) The fungus provided (b) The lichen provided (c) Both (1) and (2) (d) None of the above 	(b) consumption ichen is autotrophic. It p vides shelter, water and ides shelter, water and r	(c) food rovides food material to minerals. minerals to the algae.	(d) all of these the fungal component but		
115.	 is called (a) nutrition Algal component of line in return (a) The fungus provided (b) The lichen provided (c) Both (1) and (2) (d) None of the above In the process of response 	(b) consumption ichen is autotrophic. It p vides shelter, water and ides shelter, water and r ove piration	(c) food rovides food material to minerals. minerals to the algae.	(d) all of these the fungal component but		
115.116.	 is called (a) nutrition Algal component of linin return (a) The fungus provided (b) The lichen provided (c) Both (1) and (2) (d) None of the about the process of respective of the process of the proces	(b) consumption ichen is autotrophic. It p vides shelter, water and ides shelter, water and r ove piration d and carbon dioxide is	(c) food rovides food material to minerals. minerals to the algae. formed as a waste	(d) all of these the fungal component but		
115.116.	 is called (a) nutrition Algal component of linin return (a) The fungus provide (b) The lichen provide (c) Both (1) and (2) (d) None of the about the process of respination of the process of the proc	(b) consumption ichen is autotrophic. It pr vides shelter, water and ides shelter, water and r ove piration d and carbon dioxide is required and oxygen is	(c) food rovides food material to minerals. minerals to the algae. formed as a waste formed as a waste	(d) all of these the fungal component but		
115.116.	 is called (a) nutrition Algal component of linin return (a) The fungus provide (b) The lichen provide (c) Both (1) and (2) (d) None of the about the process of respination of the process of respination of the state of the process of respination of the process of respination of the process of respination of the process of the proces	(b) consumption ichen is autotrophic. It pr vides shelter, water and ides shelter, water and r ove biration d and carbon dioxide is required and oxygen is	(c) food rovides food material to minerals. minerals to the algae. formed as a waste formed as a waste	(d) all of these the fungal component but		
115.116.	 is called (a) nutrition Algal component of linin return (a) The fungus provide (b) The lichen provide (c) Both (1) and (2) (d) None of the about the process of respination of the process of the proc	(b) consumption ichen is autotrophic. It pr vides shelter, water and ides shelter, water and r ove biration d and carbon dioxide is required and oxygen is	(c) food rovides food material to minerals. minerals to the algae. formed as a waste formed as a waste	(d) all of these the fungal component but		
115.116.117.	 is called (a) nutrition Algal component of linin return (a) The fungus provide (b) The lichen provide (c) Both (1) and (2) (d) None of the about the process of respination of the process of respination of the provide is (c) both (1) and (2) (d) none of these Normal range of bread 	(b) consumption ichen is autotrophic. It provides shelter, water and ides shelter, water and r ove biration d and carbon dioxide is required and oxygen is	 (c) food rovides food material to minerals. minerals to the algae. formed as a waste formed as a waste an an adult person at resonat r	(d) all of these the fungal component but		
115.116.117.	 is called (a) nutrition Algal component of linin return (a) The fungus provide (b) The lichen provide (c) Both (1) and (2) (d) None of the about the process of respination of the process of the provide is (c) both (1) and (2) (d) none of these Normal range of breading (a) 9-12 	(b) consumption ichen is autotrophic. It privides shelter, water and ides shelter, water and r ove biration d and carbon dioxide is required and oxygen is athing rate per minute in (b) 15-18	 (c) food rovides food material to minerals. minerals to the algae. formed as a waste formed as a waste an an adult person at res (c) 12-15 	(d) all of these the fungal component but it is (d) 18-24		

118.	Alcohol is formed du	ring		
	(a) aerobic respiration	(b) heavy exercise	(c) anaerobic respiration	on (d) both (2) and (3)
119.	In anaerobic respiration	on in yeast		
	(a) O2 is given out	(b) CO2 is given out	(c) CO2 is taken in	(d) O2 is taken in
120.	During heavy exercise	e, we get cramps in the	legs due to the accumu	ilation of
	(a) carbon dioxide	(b) lactic acid	(c) alcohol	(d) water
		MATHEN	MATICS	
121.	Find the value of $\sqrt[3]{27}$	$\sqrt{7} \times \sqrt[3]{216} \times \sqrt[3]{64}$		
	(a) 24	(b) 45	(c) 72	(d) 96
122.	The LCM of two nu numbers?	mbers is 420. Which o	f the following cannot	t be the HCF of the two
	(a) 70	(b) 60	(c) 210	(d) 80
123.	If $m = (-1)^{2000}$ and $n = (-1)^{2000}$	$= (-1)^{2002}$, then find the	value of $\frac{m}{n}$.	
	(a) -1	(b) 1	(c) 2000	(d) 2002
124.	The number 444 444	444 444 is divisible by	:	
	(a) 3, 11	(b) 7	(c) 5, 11	(d) 9, 11
125.	If $\frac{x}{y} = \frac{3}{5}$, then the val	ue of $\frac{x-y}{x+y}$ is		
	(a) $-\frac{1}{4}$	(b) $\frac{1}{4}$	(c) $\frac{1}{2}$	(d) -6
126.	The unit digit in the	product (7 ⁷¹ × 6 ⁵⁹ × 3 ⁶⁵) as:	
	(a) 6	(b) 2	(c) 4	(d) 1
127.	The greatest number	of 4 digits divisible by	12, 15, 20 and 35 is	
	(a) 9999	(b) 9900	(c) 9804	(d) 9660
128.	Every composite num	nber has:		
	(a) no prime divisor		(b) at least one prime	divisor
	(c) at least two prime	e divisor	(d) one and only one	prime divisor
129.	The mean of 15 obs observations 33, 39 at	servations is 30. Two nd 48 are included. Fin	observations 28 and 3 d the mean of new set	8 are deleted and three of observation.
	(a) 31	(b) 31.5	(c) 32	(d) 33.4
130.	If mode – mean = me	ean – mode, then which	n of the following is ne	cessarily true?
	(a) Mean = Median	(b) Median = Mode	(c) Mean = Mode	(d) All of these

131.	In a school, only 2 out of 5 students can participate in a quiz. What is the chance that a student picked at random makes it to the competition?					
	(a) 20%	(b) 40%	(c) 50%	(d) 30%		
132.	What should be added to $\left(\frac{1}{2} + \frac{1}{3} + \frac{1}{5}\right)$ to get 3?					
	(2) $\frac{58}{58}$	(b) $\frac{59}{2}$	$(3) \frac{59}{5}$	(d) $\frac{59}{5}$		
	^(a) 30	(b) 32	(C) 30	^(u) 95		
133.	Let x, y, z be three obs	ervations. The mean of	these observations is :			
	(a) $\frac{\mathbf{x} \times \mathbf{y} \times \mathbf{z}}{2}$	(b) $\frac{x + y + z}{2}$	(c) $\frac{x-y-z}{2}$	(d) $\frac{x \times y + z}{2}$		
124	$\frac{3}{3}$ In $AABC = (A an)$	3	$\frac{3}{3}$	A R is :		
134.	III ΔADC , $\angle C = \angle A$ all	(h) = 0 cm and AC = 0		$(d) \ge E$ area		
105				(d) 2.5 cm		
135.	If one angle of a triang	gie is equal to the sum of	other two angles, then	the triangle is:		
	(a) an isosceles triangl	e	(b) an obtuse triangle			
	(c) an equilateral trian	gle	(d) a right angled trian	igle.		
136.	Two altitudes intersect	t at a vertex in				
	(a) Obtuse triangle	(b) Acute triangle	(c) Right triangle	(d) None of these		
137.	The sum of two consecutive multiples of 6 is 66. Find the multiple.					
	(a) 32, 34	(b) 34, 42	(c) 30, 30	(d) none of these		
138.	If I add $\frac{3}{8}$ th of number	er to $\frac{1}{8}$ th of that number	r I get zero, then the nu	mber is :		
	(a) 0	(b) 3	(c) -3	(d) none of these		
139.	A number increased b	y 20 and then reduced	by 15 becomes 10, then	the number is :		
	(a) 2	(b) 5	(c) 6	(d) 7		
140.	The result of adding the	he difference of 3.003 ar	d 2.05 to their sum will	be :		
	(a) 6.006	(b) 60.06	(c) 600.6	(d) 0.6060		
141.	The number 'x' equals	one fourth of its own re	eciprocal, then the value	e of 'x' is equal to :		
	. 1	1				
	(a) $\frac{-}{2}$	(b) $\frac{-}{4}$	(c) 2	(d) 4		
142.	What is the median of	f the following data 37,	31, 42, 43, 46, 25, 39, 45	, 32?		
	(a) 35	(b) 39	(c) 5	(d) 8		
143.	A man goes 24 m due	East and then 10 m due	North. How far is he fi	rom his initial position?		
	(a) 25 m	(b) 25.5 m	(c) 26 m	(d) 27 m		
144.	Which of the following	g values are equal?				
	(P) 1^4	(Q) 4°	(R) 0^4	(S) 4^{1}		
	(a) P and Q	(b) Q and R	(c) P and R	(d) P and S		

145. The value of $\angle A + \angle B + \angle C + \angle D + \angle E + \angle F$ is :

	Å						
	F						
	(a) 190°	(b) 540°	(c) 360°	(d) 180°			
146.	If the distance travelle	d by a car in one hour is 2	210 km, then find the dis	stance (in metres) travelled			
	by the same car with t	he same speed in 60 sec	onds.				
	(a) 4500 m	(b) 3160 m	(c) 3500 m	(d) 4230 m			
147.	In $\triangle PQR$ if $\angle P=60^{\circ}$ ar	nd $\angle Q$ = 40°, then the ex	terior angle formed by	producing QR is equal to:			
	(a) 60°	(b) 120°	(c) 100°	(d) 80°			
148.	Which of the following	g does not have an integ	er solution?				
	(a) $5y - 3 = -18$	(b) $3x - 9 = 0$	(c) $3z + 8 = 3 + z$	(d) $9y + 8 = 4y - 7$			
149.	Which of the following	g rational number is equ	al to its reciprocal?				
	(2) 0	(b) 2	(c) 1	(d) $\frac{1}{2}$			
	(a) 0	(0) 2	(C) 1	^(u) 2			
150.	The range of the data	21, 6, 17, 18, 12, 8, 4, 13	is:				
	(a) 17	(b) 12	(c) 8	(d) 15			

ROUGH WORK