

Answer Sheet No	13
Sig. of Invigilator	

SHIIDENROUNKY.COM APPLIED SCIENCES HSSC-I

				SEC	CTION - A (F	Marks	3 10)				
Time	allov	ved: 1	0 Minutes								
NOTE:	It s	should !	is compulsory. A be completed in verwriting is not	the f	irst 10 minutes	and ha	anded over to t	n the c	uestion paper itself itre Superintendent		
Q. 1	Circle the correct option i.e. A / B / C / D. Each part carries one mark.										
	(i)	Whic	h of the following	oroces	sses involves pulli	ng apai	rt the broken bone	9?			
		Α.	Diffraction	B.	Contraction	C.	Traction	D.	Accommodation		
	(ii)	Whic	h of the following i	s the	modified form of v	vheel?					
		A.	Inclined plane	B.	Ramp	C.	Crank	D	Screw		
	(iii)	On w	hich factor, does t	he blo	ood circulation larg	gely dep	pend?				
		Α.	Centre of gravi	ty		B.	Mass				
		C.	Density			D.	Gravity				
	(iv)	In wh	ich of the following	g dise	ases, ESR is norr	nal?					
		A.	Sleeping sickness			B.	Leishmaniasis	Leishmaniasis			
		C.	Allergic state			D.	Mental diseas	Mental disease			
	(v)	In which of the following diseases, cold water sponge or alcohol sponge is applied?									
		Α.	Leishmianasis	B.	Hyperpyrexia	C.	Mycoedemia	D	Trypanosomiasis		
	(vi)	Which is the normal value of pH in blood?									
		A.	7.6	B.	6.4	C.	6.7	D.	7.4		
	(vii)	Whic	h of the following :	staten	nents is TRUE abo	out alka	li-metals?				
		A. These metals are hard and brittleC. Alkali metal does not form basic oxide			B.	These metals	These metals are non-reactive				
					D.	Alkali metals a	Alkali metals are reactive, soft and ductile				
	(viii)	(viii) Which of the following statements is TRUE?									
		A.	Biochemical ca	talyst	is poison	B.	Biochemical c	atalyst	is ion exchange		
		C. Biochemical catalyst is hydroly			is hydrolysis	D.	Biochemical c	Biochemical catalyst is enzyme			
	(ix)	Whic	h of the following i	s osm	otic pressure of th	ne blood	1?				
		Α.	7.9 Pa	B.	8.9 N/m ²	C.	37 cm of wate	r D.	10 atm		
	(x) The scattering of light or dispersion of light					colloidal particle is called					
		Α.	Tyndall effect			B.	Diffraction effe	ect			
		C.	Interference eff	ect		D.	Mesh effect				
	For E	Examine	r's use only:		-						
			Total Marks:						10		
						Mark	s Obtained:				



APPLIED SCIENCES HSSC-I

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Time allowed: 2:20 Hours

Total Marks Sections B and C: 40

NOTE:- Answer any thirteen parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION - B (Marks 26)

- Q. 2 Attempt any THIRTEEN parts. The answer to each part should not exceed 2 to 4 lines. (13 x 2 = 26)
 - Define Suspension and Colloids.
 - (ii) Give two examples of Metals and Non-metals.
 - (iii) Name any two Indicators.
 - (iv) Name any two acids useful in nursing.
 - (v) Define Salt. Write three common salts with formula.
 - Define Electrolyte and Electrolysis with one example. (vi)
 - (vii) Define long and short sightedness.
 - (viii) Define Refraction and Reflection with one example.
 - (ix) Define Boiling point and Dew point.
 - (x) Write two effects of heat.
 - (ix) List three types of Barometer.
 - (xii) Write two factors which affect the flow rate of liquid.
 - (xiii) Write any two clinical application of solution.
 - (xiv) Define Density and Specific gravity with one example each.
 - (xv) Define Osmosis.
 - (xvi) Define Diffusion.
 - (xvii) Write any two bad effects of friction.

SECTION - C (Marks 14)

Attempt any TWO questions. All questions carry equal marks. Note: $(2 \times 7 = 14)$ Q.3 Write all possible precautions to be taken when using radioactive material. 0.4 Write all possible precautions to be taken to prevent electrical accident in hospital.

Q.5 Write the impurities in water and the steps involved in purification of water.