Name:	1	1
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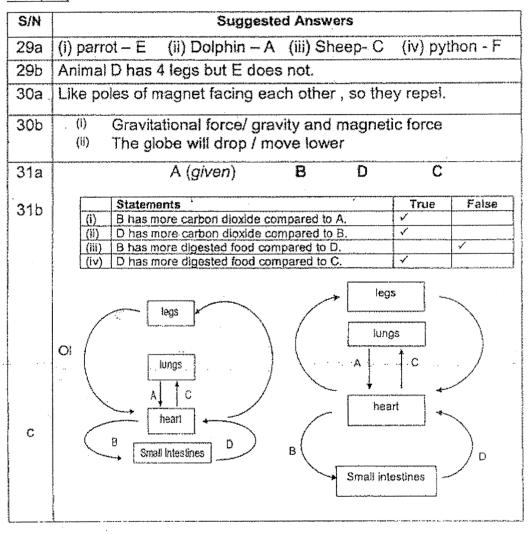
Class: Pri 6 SY/C/G/SE/P

2021 SCGS PRI 6 SCIENCE PRELIMINARY EXAMS

Part 1 (56m)

1.	4	6.	2	11.	2	18.	2	21.	4	26.	3
2.	1	7.	3	12.	2	17.	3	22.	3	27.	4
3.	1 .	8.	4	13.	3	18.	2	23.	4	28.	1
4.	3	9.	3	14.	2	19.	1	24.	2		Carriering on State Sunday States on
5.	2	10.	4	15.	1	20.	2	25.	1		

Part 2 (44m)



32a	To find out if different surfaces affects the amount of frictional force.
32b	Car S will stop first as Surface S is rougher than Surface P, so it has more <u>frictional force</u> /more <u>friction</u> between the car and the surface.
33a	 One switch must be in series with BULB Y One switch must be in series with the battery Bulbs are in parallel (no switch in series with X)
Print a land to the land to th	Example:
33b	(ii) The bulb lights up
34a	Stretched string /pulled-back string/ pulled string
34b	The gravitational force / gravity pulled it down/ downwards to P.
34c	No. A heavier arrow means more gravitational force pulling it
	down, so it will travel a shorter distance. OR No. A heavier arrow needs to pull back the arrow more so that more potential energy can be converted to more kinetic energy to move it as far.
35a	It makes it fair as the amount of air in the boxes will affect the results of the experiment, thus the amount/ volume of air in the boxes must be the same/similar/ constant.
35b	B. B is warmer than C, and B has more moisture than A (0.5m). OR B has (air), warmth and moisture but A doesn't have moisture and C doesn't have warmth.
35c	Any 2 suggestions: He could pack his jacket in a plastic bag and put Substance X.

	He could pack his jacket in a plastic bag and remove the air (vacuum-pack) the bag. He could place the jacket in a cold/cool place/ refrigerator/ co store
36a	
(i) (ii)	Part P [Either one]
36b	Yes. The other overy can still produce/release eggs.
37a	50
37b	Air has no definite/ fixed volume
ş	Not accepted 'Air can be compressed' ynot applicable to scenario given)
37c	Decrease. Air has mass and when some air has been
	removed, there will be less air and thus less mass in the container.
	(gravitational) potential energy → kinetic energy →
38a	<u>heat</u> energy + <u>sound</u> ener
38b	When the hole is bigger, more sand will drip/fall. More sand will have more mass and have more kinetic energy which is converted to more sound energy to make a louder sound.
38c	Raise the pail higher
*	OR Increase distance between the hole/ pail/ sand container and the plate/ floor.
39a	<how adding="" experiment?="" fish="" improved="" the=""> - must show comparison Fish can provide more / increase carbon diakide for more faster photosynthesis.</how>

39	Description of light source. The plants are at different distances away from the light source. OR The plants in different tanks did not receive the same amount of light
39	Any arrangement showing equal distances between light and each of the 3 tanks clearly. Stances between light and each tank must be the same
39	B. The plant in B received the most light to carry out the most/ fastest photosynthesis to produce the most oxygen.
40	Section A: Evaporation Section B: Condensation
40	Water can gain more heat evaporate faster/ more. OR Water vapour can become hotter that it can condense more/ faster (on the metal sheet later). Note: Difference between 'water' and 'water vapour'
40	Metal is a <u>better</u> conductor of heat than plastic AND Thus <u>water vapour</u> can <u>lose heat/ more faster</u> (to sheet/ice) to condense faster.
40	Ideas needed in answer: - Comparison on heat gain by water (when heater was in water and outside water) - resulting in faster / more evaporation - producing more water vapour - allowing for more condensation into water droplets Example If heater is in the water, the water can gain more heat/ heat faster than when heater is outside water so the water can evaporate faster to produce more water vapour. Hence more water will be collected in Section B as there is more water vapour condensed into water droplets