#### JUNIOR SCHOOL CERTIFICATE EXAMINATION, 2014

SCIENCE (CREATIVE + MCQ)

[According to the Syllabus of 2014]

Subject Code: 1 2 7

Marks

3

Time— 3 hours Full marks—(60 + 40)=100

#### Creative Questions

Marks 60

[N.B.—Figures along the right margin indicate full marks. Read the following stems carefully and answer the questions accordingly. Answer any six of the following questions.]



'P'-Analyze the statement.

- (a) What is gene?
   (b) Why meiosis cell division is called reduction division? Explain.
   (c) What type of change takes place in the stage-B of the stem? Explain it.
   (d) If the given procedure of the stem does not take place properly what problem may arise in
- organism? Analyze it.

  After returning from school Abir saw that the plants in the tub had withered away. He watered
  - the plants in the afternoon. Next morning he found all the plants alive and fresh.

    (a) What is Imbibition?
    - (b) Write down two differences between diffusion and osmosis.
      (c) Why did the plants of the tub wither away? Explain it.
- (d) How did the plants become alive and fresh? Analyze it.
   Rahima Begum put lime in water in a pot. When she was taking some lime from the pot she observed that the pot had become hot and the lime water turned opaque due to her breath
  - reaching to the lime water.

    (a) -What is acid?
  - (b) What is meant by indicator?(c) Explain the various uses of the water compound in the pot of the stem.
  - (d) The first compound produced in the stem shows the characteristics of both base and alkali. Explain with logic.

		Nervo	us system		
	4		4	<b>→</b>	
Central nervous system		Periph	eral nervous system	Autonomic nervous system	
4					
Brain	Spina	l cord			
Ψ.	4	1			
Cerebrum	Midbrain	Hind brain			
P	0	R			
(a) What i	s neuron?				
(b) What is meant by spinal cord? Explain.					
(c) Describe the structure of 'R' in the figure.					
(d) Know	ledge, conscience	e, intelligence	and movement of	muscles are controlled by part	

[Please turn over]

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**G Psacharopoulos** 

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