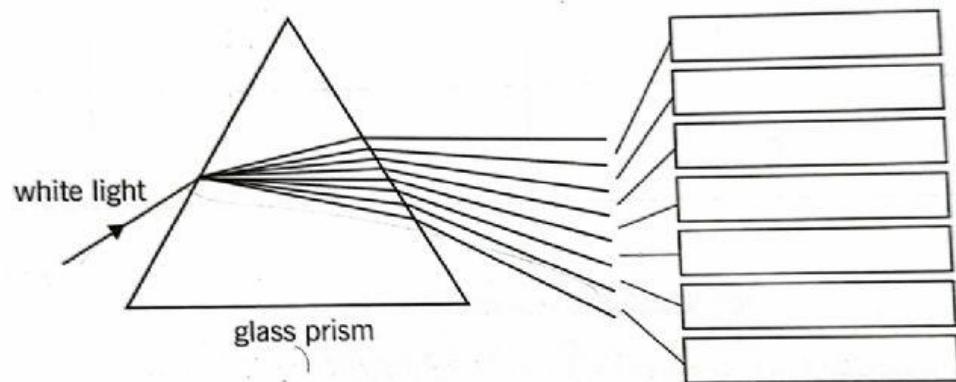


1. (a) Explain what is meant by a spectrum.

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(b) The diagram shows white light is split into its seven colour components after passing through a glass prism. Complete the sequence of colour components shown below.

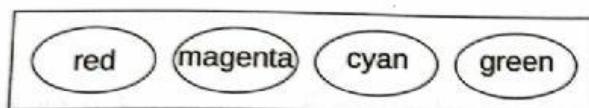


3.

A white shirt has turned yellowish after a period of time. Which of the following colour agents can be used to whiten the shirt again?

- A. red
- B. blue
- C. green
- D. red mixed with green

14. A yellow light is shined on a chart containing the following colours.



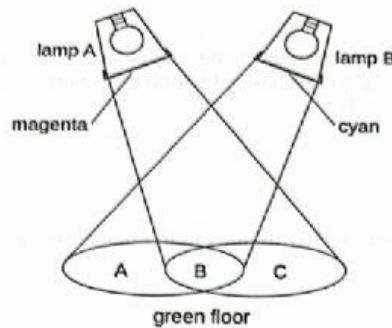
Which of the following correctly shows the appearance of the chart?

A.   
B.   
C.   
D.   
The correct answer is D. The yellow light will reflect off the yellow circle, leaving the other three circles black.

18. Which of the following colours produces white colour when mixed with green?

- A. blue
- B. magenta
- C. cyan
- D. yellow

5. The diagram shows two lamps fitted with two different colour filters. Lamp A is fitted with magenta colour filter while lamp B is fitted with cyan colour filter. Both lamps shine on a green floor.



(a) (i) What is meant by secondary colour?

[1]

(ii) State the colour components that are made up of the following colours.

[2]

Colour	Colour components
magenta	
cyan	

(b) What would you expect the colours shown in the respective zones A, B and C on the green floor?

[3]

(i) A \_\_\_\_\_

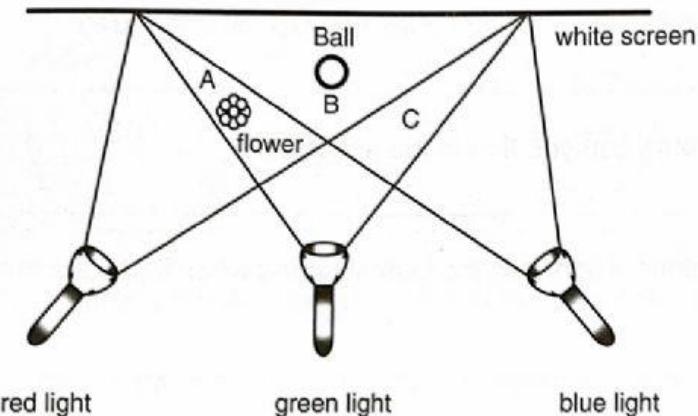
(ii) B \_\_\_\_\_

(iii) C \_\_\_\_\_

4. A mixture is made up of yellow and cyan pigments. What is the primary colour reflected by this mixture of pigments?

- A. white
- B. blue
- C. magenta
- D. green

9.



Three lights in a dark room project beams of red, green and blue lights on a white screen as shown in the diagram above.

(a) What colours can be seen at A, B and C?

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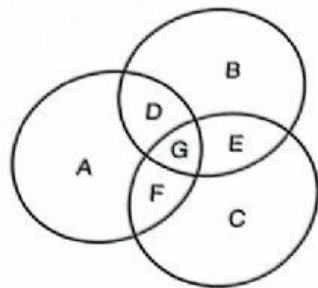
(b) A blue flower and a yellow ball are placed at region A and B respectively. What colour do they appear?

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10

11. The diagram shows the mixing of three primary colours using a torch light.



(i) Name the primary colours A, B and C.

\_\_\_\_\_

(ii) Name the secondary colours D, E and F.

\_\_\_\_\_

(iii) What colour can you see at area G?

\_\_\_\_\_

(iv) Complete the following table.

Original colour of object	Colour of object when placed in			
	white light	blue light	green light	red light
White				
Cyan				
Red				