

GCE

Past-Year Examination Series

# PURE

# BIOLOGY

TOPICAL ANALYSIS

5090

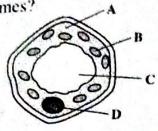
### **PURE BIOLOGY**

Additional Past-Year Questions June 1998 and November 1998

#### UNIT 1 – CELL ORGANISATION, DIFFUSION AND OSMOSIS

### Paper 1 - Multiple Choice Questions

43. Which structure in the plant cell contains chromosomes?



[JUNE 98/P1/Q1]

44. Which structures are present in animal cells?

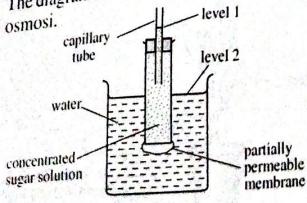
1	ell membrane	cell wall	chloroplasts	cytoplasm
-		1	1	1
A	*	X	X	1
B	,	X	1	X
C	,	1	X	1

key: /= structure present

X = structure absent

[NOV. 98/P1/Q1]

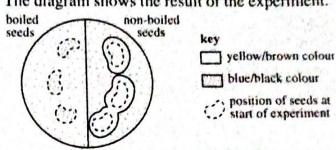
45. The diagram shows apparatus used to investigate



After four hours, which changes in levels will occur and which molecules will move across the membrane?

level 1		level 2	evel 2 molecules	
A	fall	rise	sugar	
B	fall	rise	water	
C	rise	fall	sugar	
D rise		fall	water [NOV. 98/P1/Q4]	

After two days, all the seeds were removed and the jelly was flooded with iodine solution. The diagram shows the result of the experiment.



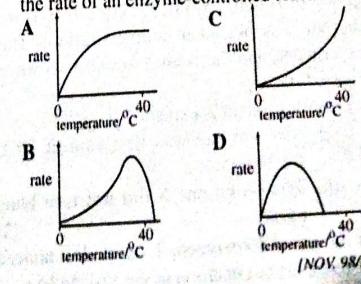
What does the experiment show about non-boiled bean seeds?

- A They absorb iodine.
- B They absorb starch.
- C They secrete acid.
- D They secrete amylase.

[JUNE 98/P1/Q5

- 37. Which chemical elements are combined to make molecules of starch and cellulose?
  - A carbon, hydrogen and nitrogen
  - B carbon, hydrogen and oxygen
  - C carbon, nitrogen and oxygen
  - carbon, hydrogen, nitrogen and oxygen

38. Which graph shows how temperature affective rate of an enzyme-controlled reaction?



39. Which combination of chemical element present in carbohydrate molecules?

carbon hydrogen nitrogen