

KOLEKSI SOALAN KBAT BIOLOGI 2015

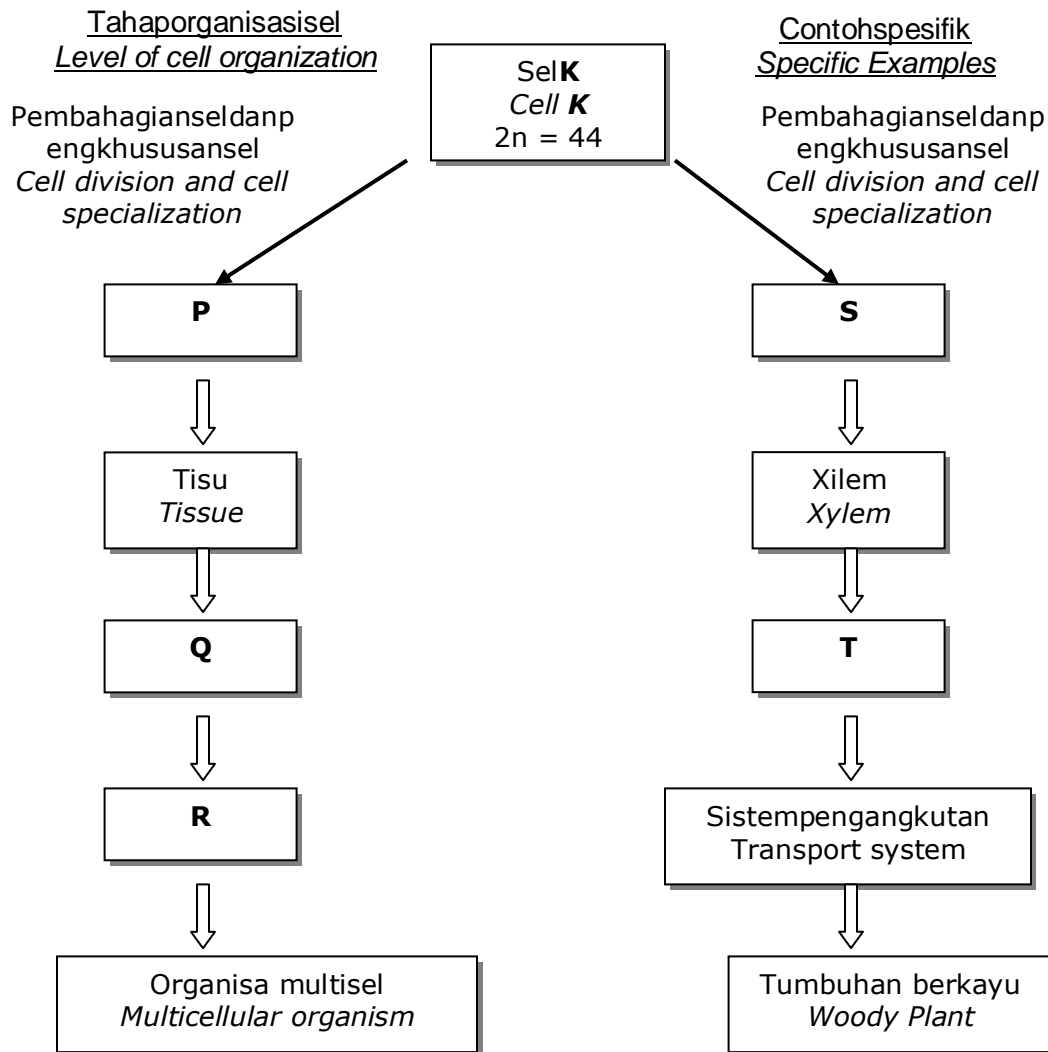
Soalan 2/16

Disediakan oleh [Cikgu Azrie](#)
Answer scheme translated by [SPM Soalan](#)

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Soalan 2/ Question 2

Rajah 2 menunjukkan perbezaan tahap dalam organisasi sel tumbuhan berkayu. Figure 2 shows different levels of cell organization in a woody plant.



Rajah 2
Figure 2

- (a) Nyatakan tahap organisasi sel yang ditunjukkan dalam P, Q dan R
State the level of cell organization represented by P, Q and R

P :

Q :

R :

Mengingat[2markah]

- (b) Namakan satu contoh S dan T
*Name **one** example of S and T*

S :

T :

Kefahaman[2 markah]

- (c) Namakan jenis pembahagian sel yang berlaku di dalam sel K untuk membentuk S
Name the type of cell division that occurs in the cell K to form S

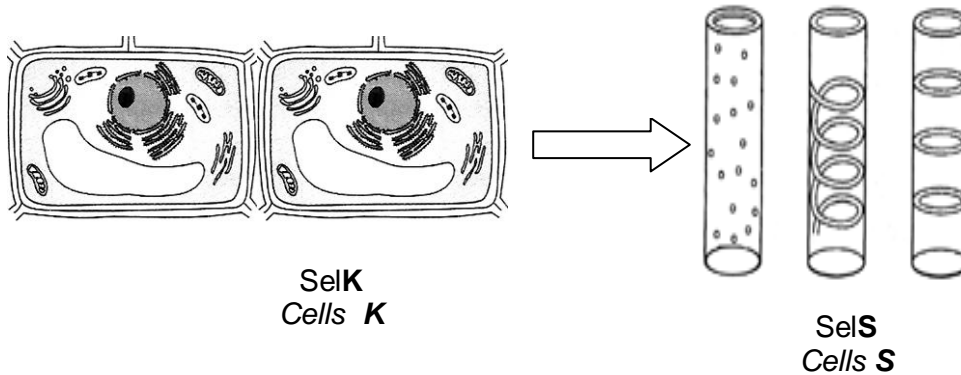
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Kefahaman[1 markah]

- (d) Nyatakan nombor kromosom di dalam sel soma tumbuhan berkayu
State the chromosomal number of a somatic cell in the woody plant.

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Kefahaman [1 markah]



Rajah 2
Diagram 2

- (e)(i) Nyatakan fungsi yang spesifik bagi xylem.
State the specific function of the xylem.

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Kefahaman [1 markah]

(ii) Nyatakan dua struktur penyesuaian bagi xylem dan bagaimana ia membantu menjalankan fungsi dengan berkesan
Give two structural adaptations of xylem and how helps in carry out its function effectively.

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Aplikasi[3markah]

(f) Berikan pendapat anda, mengapa S berbeza daripada sel K berdasarkan struktur dan fungsinya.
Give your opinion why is S different from cell K based on the structure and its function.

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Aplikasi[2 markah]

No	Sec.	Accepted points / description / explanation	M 1	M Sum
2	(a)	P : Cell / sel Q : Organ R : System/ sistem	1 1 1	3
	(b)	S : Xylem vessels / tracheids T : Stem / root / leaf	1 1	2
	(c)	Mitosis	1	1
	(d)	44	1	1
	(f)(i)	Carries water and mineral salts from the roots to the stems and leaves // provides mechanical support. Membawa air dan mineral dari akar ke daun dan batang pokok // member sokongan mekanikal	1	1
	(f)(ii)	* The tissue consists of hollow vessels joined end to end // It has a continuous tube from the roots to the leaves. * The wall are thickened with lignin // It is strong.	1 1	2
	(e)	F : S Undergo cell specialization whereas K does not undergo cell specialization E : S Has specific shape / structure for specific function, K has basic shape	1 1	2