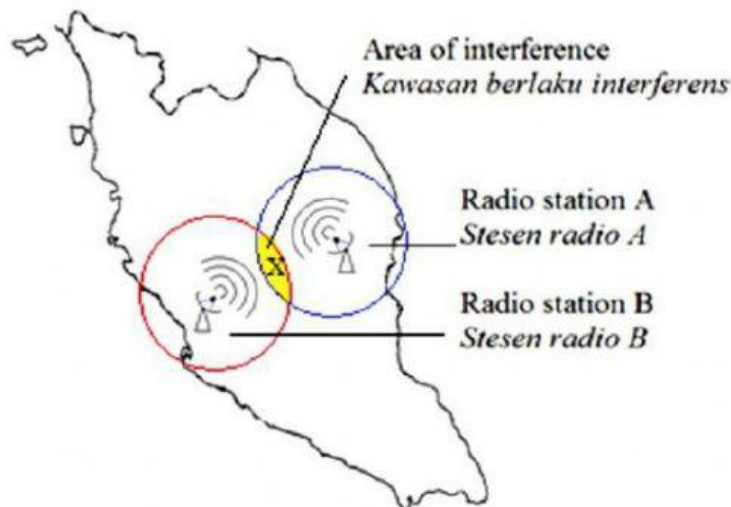


**BAB 6 : WAVE.
GELOMBANG**

Diagram shows the effect of interference encountered by a radio receiver at X. X is the radio broadcasting duplication area emitted by two radio stations, Radio Station A and Radio Station B in Peninsula Malaysia. The duplication causes signal disturbance at X.

Rajah menunjukkan kesan interferens dihadapi oleh penerima siaran radio di X. X berada di kawasan pertindihan siaran radio yang dipancarkan oleh dua stesen radio, Radio Stesen A dan Radio Stesen B di Semenanjung Malaysia. Kesan pertindihan ini menyebabkan gangguan siaran di X.



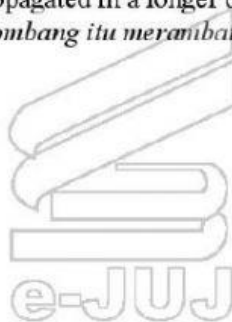
You are required to give some suggestions to design a radio broadcasting system which can improve the quality of radio broadcasting at X.

Using the knowledge on waves, explain your suggestions based on the following aspects:

Anda dikehendaki memberi beberapa cadangan untuk merekabentuk satu system penyiaran radio yang dapat menambahbaik kualiti siaran radio di X.

Nyata dan terangkan pengubahsuaian berdasarkan aspek-aspek berikut:

- (i) The type of the wave transmitter
Jenis gelombang yang dipancar.
- (ii) The height of the transmitter from the ground
Ketinggian pemancar dari tanah.
- (iii) Method to receive the signal clearly
Kaedah untuk menerima isyarat dengan jelas
- (iv) Method than can reduce the interference effect
Kaedah yang boleh mengurangkan kesan interferens
- (v) Method that enable the wave propagated in a longer distance
Kaedah yang membolehkan gelombang itu merambat dalam jarak yang lebih jauh



Characteristics <i>Ciri-ciri</i>	Explanation <i>Keterangan</i>

