ULANGAN HARIAN 1
KELAS XI – IPA
TOPIK : HIDROKARBON

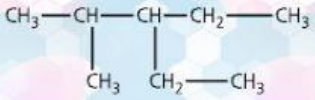
Rabu 25 Agustus 2021

NAMA : .....

Kelas : .....

M.Pel : .....

01. Dari rumus struktur berikut :



dapat dikatakan bahwa pada rumus tersebut terdapat ...

(A) 4 atom C primer, 2 atom C sekunder, dan 1 atom C tersier

(B) 4 atom C primer, 2 atom C sekunder, dan 2 atom C tersier

(C) 3 atom C primer, 2 atom C sekunder, dan 2 atom C tersier

(D) 4 atom C primer, 1 atom C sekunder, dan 3 atom C tersier

(E) 2 atom C primer, 2 atom C sekunder, dan 4 atom C tersier

02. Dari rumus hidrokarbon berikut ini :

1. C_3H_6 2. C_4H_{10} 3. C_4H_6 4. C_5H_{10}

Hidrokarbon yang termsuk dalam satu deret homolog adalah . . .

(A) 1 dan 3

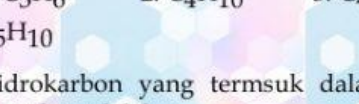
(B) 1 dan 2

(C) 1 dan 4

(D) 3 dan 4

(E) 2 dan 4

03. Nama IUPAC dari senyawa



(A) 3-etil-6-isopropil, 2-6-dimetilheptana

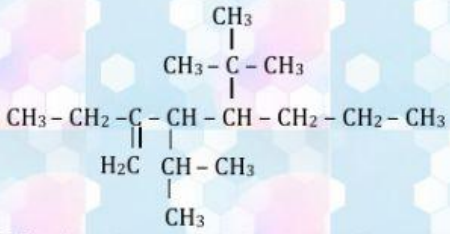
(B) 3-isopropil-5,5-dimetilheptana

(C) 5-etil-2,6-dimetilheptana

(D) 3-etil-2,6,7-trimetil-2-oktena

(E) 5-etil-2,6-dimetil-5-heptena

04. Senyawa dengan rumus struktur :



Diberi nama…

(A) 2-etil-3-isopropil-4-tersierbutil-3-heptena

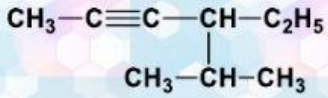
(B) 2-etil-3-isopropil-4-tersierbutil-2-heptena

(C) 2-etil-3-isopropil-4-tersierbutil-1-heptena

(D) 3-etil-4-isopropil-5-tersierbutiloktena

(E) 3-etil-4-isopropil-4-tersierbutiloktena

05. Nama senyawa :



adalah…

(A) 4-isopropil-3-heksena

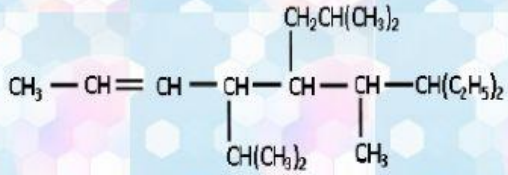
(B) 4-etil-5-metil-2-heksuna

(C) 3-isopropil-4-heksuna

(D) 4-etil-5-metil-3-heptuna

(E) 3-etil-2-metil-4-heptuna

06. Perhatikan gambar!



Tatanama yang benar berdasarkan sistem IUPAC adalah…

(A) 7–etil 6–metil 4–isopropil 5–isobutil-2–nonena

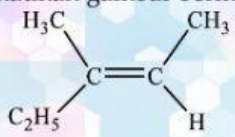
(B) 7–etil 6–metil 4–isopropil 5–tersierbutil 2–nonena

(C) 7–etil 6–metil 4–isopropil 5–sekunderbutil 2–nonena

(D) 7–etil 5–isobutil 6–metil 4–isopropil 2–nonena

(E) 7–etil 5–sekunderbutil 4–isopropil 2–nonena

07. Perhatikan gambar berikut ini



Nama senyawa di atas adalah ...

(A) *cis*-2-pentena

(B) *trans*-2-pentena

(C) *cis*-2-metil-2-pentena

(D) *trans*-3-metil-2-pentena

(E) *cis*-2-etil-2-butena

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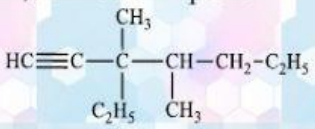
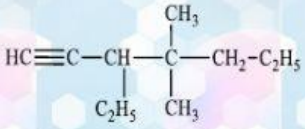
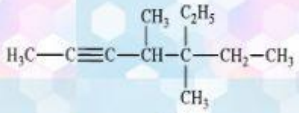
08. Nama yang mungkin untuk senyawa denga rumus moleku C_7H_{16} adalah . . .

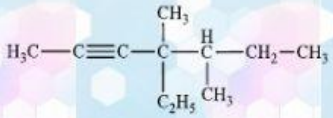
(A) 3-metil heptana
(B) 2,2-dimetil butana
(C) 3,3-dimetil heksana
(D) n-heksana
(E) 2,2,3-trimetil butana

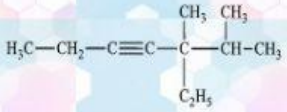
09. Berikut ini yang merupakan rumus struktur dari 4-etil-4,5-dimetil-2-heptuna

(A) 

(B) 

(C) 

(D) 

(E) 

10. Senyawa alkena berikut ini yang tidak memiliki isomer geometri adalah . . .

(A) 2,3 dimetil 2-butena
(B) 3,4 dimetil 3-heksena
(C) 2-butena
(D) 3 metil 2-heksena
(E) 3,4 dimetil 2-pentena

B. Pasangkan nama senyawa berikut ini

1. 3-etil-2,4-dimetilheksana

2. 2,2,5-trimetil-3-heksena

3. 4–etil–2,3–dimetilheksana

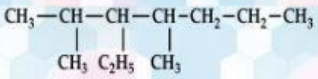
4. 4-etil-2-heptuna

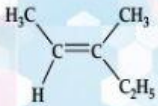
5. 4,4-dimetil-3- isopropil-1-pentuna.

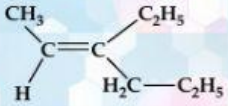
6. *Trans*-3-etil-2-heksena

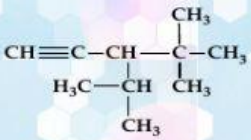
7. Cis-4-etil-3-metil-2heptena

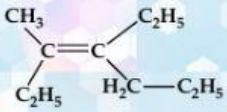
8. Trans-3-metil-2-pentena

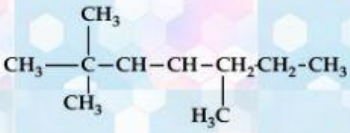


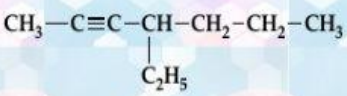


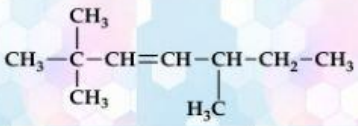


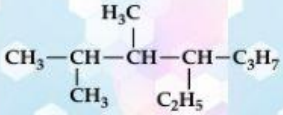












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