

Master Math for JEE Main & JEE Advanced

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For JEE Main 2020 April



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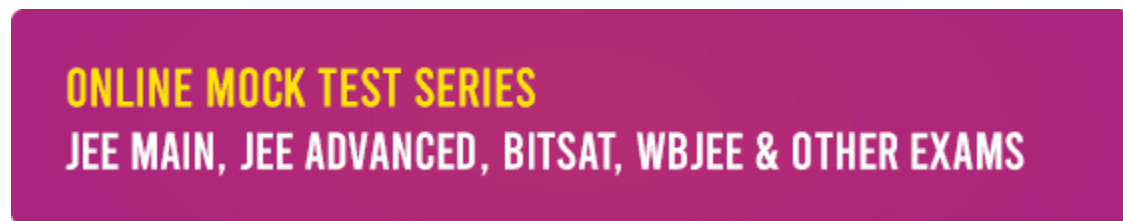
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JEE Mains 2020 Jan Chapter wise Question Bank

Chemistry in Everyday Life

Q1

Match the column

Column-I

- (A) Thiamine
 (B) Riboflavin
 (C) Pyridoxine
 (D) Ascorbic acid

निम्न का मिलान कीजिए –

कॉलम-I

- (A) थायामीन
 (B) राइबोफ्लेविन
 (C) पाइरीडोक्सीन
 (D) एस्कोर्बिक अम्ल

- (1) A → Q B → R
 (2) A → Q B → R
 (3) A → R B → Q
 (4) A → R B → Q

Column-II

- (P) Scurvy
 (Q) Beri Beri
 (R) Cheilosis
 (S) Convulsions

कॉलम-II

- (P) स्कर्वी
 (Q) बेरी बेरी
 (R) कीलोसिस (Cheilosis)
 (S) मरोड़ पड़ना (Convulsions)

- C → P D → S
 C → S D → P
 C → S D → P
 C → P D → S

7th Jan Morning

Sol

(2)

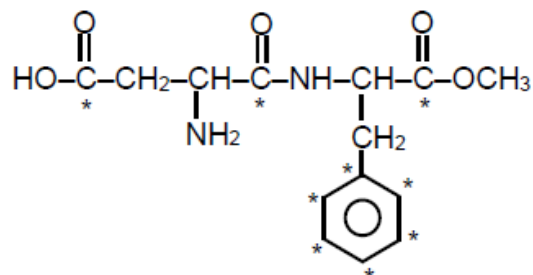
Vitamins	Deficiency Diseases
Vitamin B ₁ (Thiamine)	Beri Beri
Vitamin B ₂ (Riboflavin)	Cheilosis
Vitamin B ₆ (Pyridoxine)	Convulsions
Vitamin C (Ascorbic acid)	Scurvy

02

Number of sp² hybrid carbon atoms in aspartame is –7th Jan Evening

Sol

9



All starred carbon atoms of aspartame are sp^2 hybrid. Aspartame is methyl ester of dipeptide formed from aspartic acid and phenylalanine.

03

A, B, C, and D are four artificial sweeteners.

(i) A & D give positive test with ninhydrin.

(ii) C form precipitate with $AgNO_3$ in the lassaigne extract of the sugar.

(iii) B & D give positive test with sodium nitroprusside.

Correct option is :

(1) A – Saccharine, B – Aspartame, C – Sucralose, D – Alitame

(2) A – Aspartame, B – Saccharine, C – Sucralose, D – Alitame

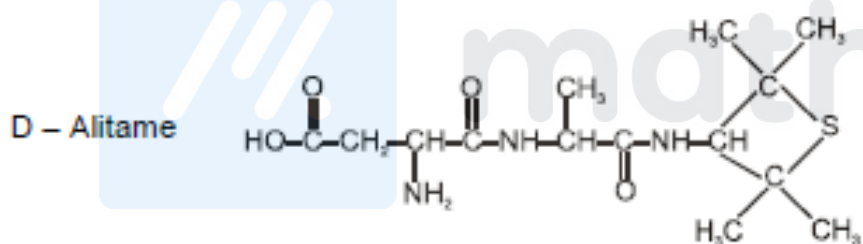
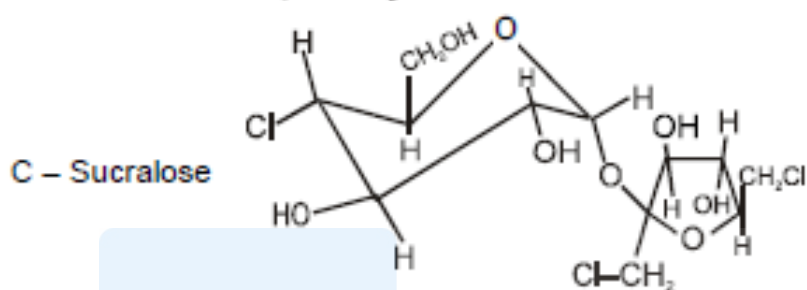
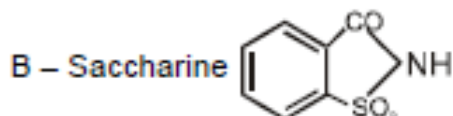
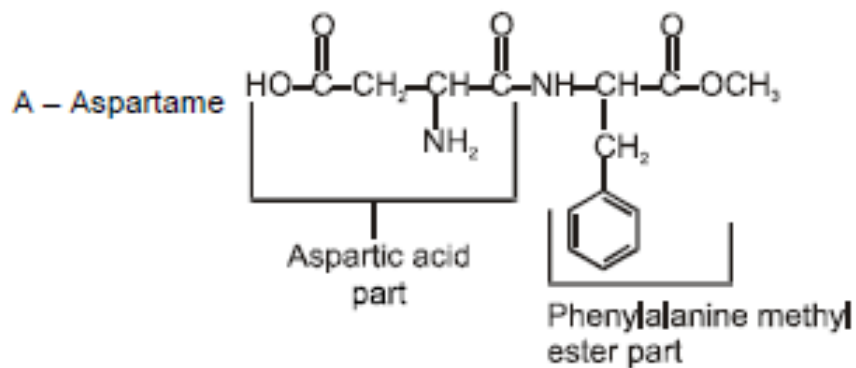
(3) A – Saccharine, B – Aspartame, C – Alitame, D – Sucralose

(4) A – Aspartame, B – Sucralose, C – Saccharine, D – Alitame

9th Jan Morning

Sol

(2)



- (i) A & D give positive test with ninhydrin because both have free carboxylic and amine groups.
 (ii) C form precipitate with AgNO_3 in the lassaigne extract of the sugar because it has chlorine atoms.
 (iii) B & D give positive test with sodium nitroprusside because both have sulphur atoms.

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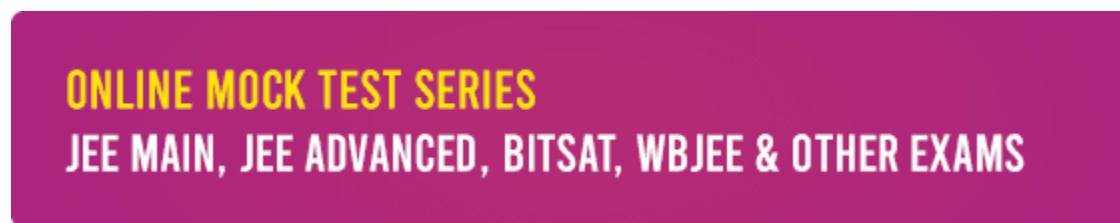
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