

The following changes in the Answer keys/BONUS have been given during evaluation.

Class VIII:

Question: Which of the following is incorrect about lightning ?

(ବିଜୁଳି ସମ୍ପର୍କରେ ନିମ୍ନରୁ କେଉଁଟି ଭୁଲ୍ ?)

(a) uring lightning, the -ve charge present in cloud combines with the +ve charge present on earth surface.

(ବିଜୁଳି ମାରିବା ସମୟରେ ମେଘରେ ଥିବା -ve ଚାର୍ଜ, ଭୂପୃଷ୍ଠରେ ଥିବା +ve ସହିତ ମିଳିତ ହୋଇଥାଏ)

(b) it is followed by thunder

(ବିଜୁଳି ମାରିବା ପରେ ଆସିଥାଏ ଘଡ଼ଘଡ଼ି)

(c) it helps in the fixation of atmospheric nitrogen

(ବିଜୁଳି ବାୟୁମଣ୍ଡଳୀୟ ଯବକ୍ଷାରଜାନ ବିବକ୍ଷିତ କରିବାରେ ସାହାଯ୍ୟ କରିଥାଏ)

(d) lightning conductors are used in building for earthing of electrical charge which give us safety from thunderstorm

(କୋଠାଘର ଉପରେ ବ୍ୟବହୃତ ବିଜୁଳି-ଚାଳକ ଦ୍ଵାରା ବିଦ୍ୟୁତ୍ ଚାର୍ଜର ଆର୍ଥିଂ ହୋଇଥାଏ ଫଳରେ ବଜ୍ରପାତ ଦୁର୍ଘଟଣା ରୁ ଆମେ ସୁରକ୍ଷା ପାଇଥାଉ)

(Since all the choices are correct about lightning, so no choice is the correct answer. So BONUS of 4 has been awarded to all.

Class IX:

Question: If a body is falling under gravity without any resistance, then which of the following is correct about its motion ?

(ବିନା ପ୍ରତିରୋଧରେ ଏକ ବସ୍ତୁର ପୃଥିବୀର ମାଧ୍ୟାକର୍ଷଣ ଦ୍ଵାରା ମୁକ୍ତ ପତନ ଘଟୁଛି । ତେବେ ତାହାର ଗତି ସମ୍ପର୍କରେ କେଉଁଟି ଠିକ୍ ?)

(a) its velocity is increasing

(ତାହାର ପରିବେଗ ବଢୁଛି)

(b) its acceleration is negative

(ତାହାର ଦିଗ ହେଲା ବିପ୍ଳବ)

© its direction is towards the centre of the earth

(ତାହାର ଗତିର ଦିଗ ହେଲା ପୃଥିବୀର କେନ୍ଦ୍ର)

(d) all of these

(ଏ ସମସ୍ତ)

(In this question there are two correct answers (a) and (c). So both have been considered for ONE CORRECT Answer category)

Question: Toluene and ortho-xylene are two organic solvents having boiling points 111°C and 144°C respectively. Which method will be suitable to separate the two from a mixture of toluene and ortho-xylene ?

(ଟୋଲୁଇନ ଓ ଅର୍ଥୋ-କ୍ସିଲିନ ଦୁଇ ଜୈବ ଦ୍ରାବକଙ୍କର ସ୍ଫୁଟନାଙ୍କ ଯଥାକ୍ରମେ ହେଲା 111°C ଓ 144°C । ତେବେ ସେହି ଦୁଇଟିର ଏକ ମିଶ୍ରଣରୁ ସେମାନଙ୍କୁ ପୃଥକ କରିବାକୁ ନିମ୍ନରୁ କେଉଁ ପ୍ରକ୍ରିୟା ଉପାଦେୟ ?)

(a) simple distillation

(ସରଳ ପାତନ)

(b) fractional distillation

(ଆଂଶିକ ପାତନ)

(c) sublimation

ଉର୍ଦ୍ଧ୍ୱପାତନ

(d) by using separating funnel

(ଏକ ପୃଥକୀକରଣ ଫନେଲ ବ୍ୟବହାର କରି)

(In this question the correct answer is (a), hence re-evaluation has been made for all)