

Answers of NEST Question papers (A and B)

The corrected answers of NEST question papers are as given in the table below.

Questions 1.7 and 1.19 of paper A and 1.8 and 1.15 of paper B have been dropped because of slight ambiguity in the options given and therefore these questions will not be graded as per the decision of the examination committee. The scores of the general section will be scaled by a factor of 50/46 to bring it in line with the other sections.

There were a number of doubts raised on two questions. We are giving a short clarification on these.

1. Q. 2.11 (Paper A) and Q.2.12 (Paper B): The function $f(x)=x+\sin x$ has a point of inflection at $x=(2n+1)\pi$ but the third derivative is positive so the function is strictly increasing at these points.

2. Q. 3.7 (Paper A) and Q.3.9 (Paper B): Displacement at B is given by $d(Q) = d(P) + \int_P^Q v(t)dt$

It is clear from the figure that the time integral is negative and the displacement at P is larger than that at Q.