

TECHNICAL GRAPHICS

SUBJECT 7049

PAPER 2

GENERAL COMMENTS

The general performance by the candidates was poor although there were a few who excelled. Draughtsmanship was overall below expectation.

QUESTION 1

The question was very popular but few candidates managed to dimension properly. Some candidates did not have limit lines while others had arrowheads not touching limit lines. Some arrowheads were too big. Figures were wrongly placed away from the centre or below the dimension lines. Many candidates did not dimension distance between centres.

QUESTION 2

This was another popular question. The view was fairly well drawn by most candidates who attempted this question but they wrongly positioned the view. The centre line was often omitted by most candidates.

QUESTION 3

A fairly popular question but poorly done by most candidates. They failed to convert the orthographic views into isometric view. Some candidates cheated by using instruments on the free hand question. Proportion was poor. The majority managed to put P the lowest point.

QUESTION 4

This was also a popular question that was fairly well done by most candidates. Most candidates placed the washer at the bolt head end instead of the nut end. Hatching was well completed by some candidates while others did not hatch at all.

QUESTION 5

This was the most unpopular question but few who attempted it got it right. However, there were others who simply copied the given orthographic views.

QUESTION 6

A very popular question and was correctly done by most candidates. However some candidates did not understand the scale 1:2 and drew full size. Some drew 1st angle projection and omitted the centre lines thereby losing vital marks.

QUESTION 7

A fairly popular question although the candidates failed to interpret the support as one piece. The M8X15 hole was not correctly done and some candidates omitted the centre line.

QUESTION 8

A popular question but poorly done by almost all who attempted the question. Performance was very poor on the castle nut. The countersunk head screw and the square head bolt were fairly done.

QUESTION 9

Almost all candidates managed to attempt the question. The question was fairly done by average performers. They managed to assemble all the components together. Some candidates assembled the components wrongly. The brackets, roller and brushes were the most wrongly placed. The shaft was sometimes put in a vertical position without any relation to the other components.

Generally the full size scale was correctly done. The projection symbol was correctly drawn by the majority of the candidates but others used free hand or drew it wrongly. There were also cases of views that were out of projection. Hatching was poor with candidates failing to distinguish the components from each other. Some candidates omitted fillets while others drew them freehand.