

GEOMETRICAL AND MECHANICAL/BUILDING DRAWING

SUBJECT 9196

PAPER 4

GENERAL COMMENTS

The design projects were well done across all centres in both options. For those candidates who were guided by the design process as per syllabus outline scored higher marks.

COMMENTS ON INDIVIDUAL STAGES

A. DESIGN BRIEF

This section was well answered by most centres although some candidates omitted the mentioning of the intended user in their brief.

B. RESEARCH AND ANALYSIS

There was evidence of research by candidates in most centres. However, the evidence is supposed to be in the form of pictures/photographs from magazines, printouts from internet of relevant date/picture, etc. If a candidate decides on sketching/drawing – acknowledgement of source is a must.

C. GENERATION AND APPRAISAL OF DESIGN IDEAS

This section was well answered by most of the candidates. The majority of candidates presented the required three (3) ideas with detailed appraisal on each idea. However, some candidates in some centres presented more than 3 ideas. This does not result in candidates scoring higher marks.

D. EXPERIMENTATION

This section was badly answered by most centres, and some centres decided to skip the section altogether. This stage entails the candidates to test on 3 things: firstly, the candidates are required to test choice of on material and its appropriateness. Secondly, the candidates are required to decide on form based on the above tests. At this stage candidates can also include anthropometric data to come up with functional dimensions. Lastly the candidates will then decide on operational functions.

E. PRODUCT DEVELOPMENT AND IMPLEMENTATION

This was by far the most popular section of the design folio. On the building option, some centres omitted the site plan. On the mechanical option several centres did not include component drawing. This resulted in loss of marks for those candidates who did so.

F. CONSTRUCTION OF MODEL

The qualities of model presented were of varied nature. The candidates who showed inside details of their model scored more marks than those candidates who presented only the outside detail.

G. APPRAISAL OF MODEL

Candidate appraised on the following: - material, justification, function, testing and modification – they did well on this section.