

449/2
DRAWING AND DESIGN
TIME:2 ½ Hours

KAMDARA JET - 2016

Instructions to candidates

- a) *You should have following for this examination:
4 sheets of drawing paper size A3;
Drawing instruments;*
- b) *This paper has ONE COMPULSORY question.*
- c) *This paper is to be issued to the candidates **30 minutes** before the examination starts.*
- d) *Candidates are advised to spend this time understanding the design problem and planning the work on one of the drawing papers printed.*
- e) ***This paper consists of 2 printed pages.***
- f) *Candidates should check the question paper to ascertain that both pages are printed as indicated and that no questions are missing.*
- g) *Candidates should answer the questions in English.*

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DESIGN PROBLEM

In our homes, there is always a problem of sorting out dirty clothes before cleaning them. Different clothes should be put and washed in different batches. Design a temporary storage device to be used in sorting different types of cloths before washing them. Design the device considering the following :

- 1. The device should have different compartments to hold the different types of cloths.*
- 2. It should easily be moved from one position to another.*
- 3. The top should be used for ironing clothes on.*
- 4. It can be adjusted to the desired height for ease during ironing of clothes.*
- 5. It should have a suitable breaking system.*

REQUIREMENTS

- a) Make free hand sketches of two possible solutions for your design. (6 marks)*
- b) Select one of the designs in (a) above and make a refined labeled pictorial sketch. (14 marks)*
- c) Make detailed sketches of the mechanisms to allow for each of the considerations 1-5 above. (15 marks)*
- d) List two materials to be used and state one reason for the choice of each in the design. (2 marks)*
- e) State three methods of joining the parts and state where each is used. (3 marks)*

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