



DEPARTMENT OF ARCHITECTURE

FACULTY OF ARCHITECTURE - UNIVERSITY OF MORATUWA

**Aptitude Test for the Admission to the Bachelor of Architecture (B Arch) Degree
and Bachelor of Landscape Architecture (B L A) Degree - 2017**

(Three Hours) - 03 hrs

Instructions to candidates

1. Answer all three questions.
2. To pass this aptitude test, the candidate should achieve a minimum score of 40% of the allocated marks for **each question**.
3. Questions to be answered in ENGLISH only.
4. All questions to be answered on the question paper itself.
5. Write your index number in all answer sheets.
6. Question No. 3 will be given **one hour** before the closing time.
7. **STOP** when instructed and place paper face down on your desks.

Question One	40
Question Two	40
Question Three	40
Total	120

QUESTION ONE (30 MARKS)

Illustration below shows the left-side half of a drawing; 'an aerial view of a town center'. Use your imagination to sketch the other half of this drawing, outlined by the broken line.



QUESTION THREE – 60 MINUTES

(30 MAR 2015)

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- o All questions need to be answered on the question paper itself
- o **STOP** when instructed and place paper face down on your desks

3.1

The images below show an object FLOATING IN THE MIDDLE of a 'glass box'.

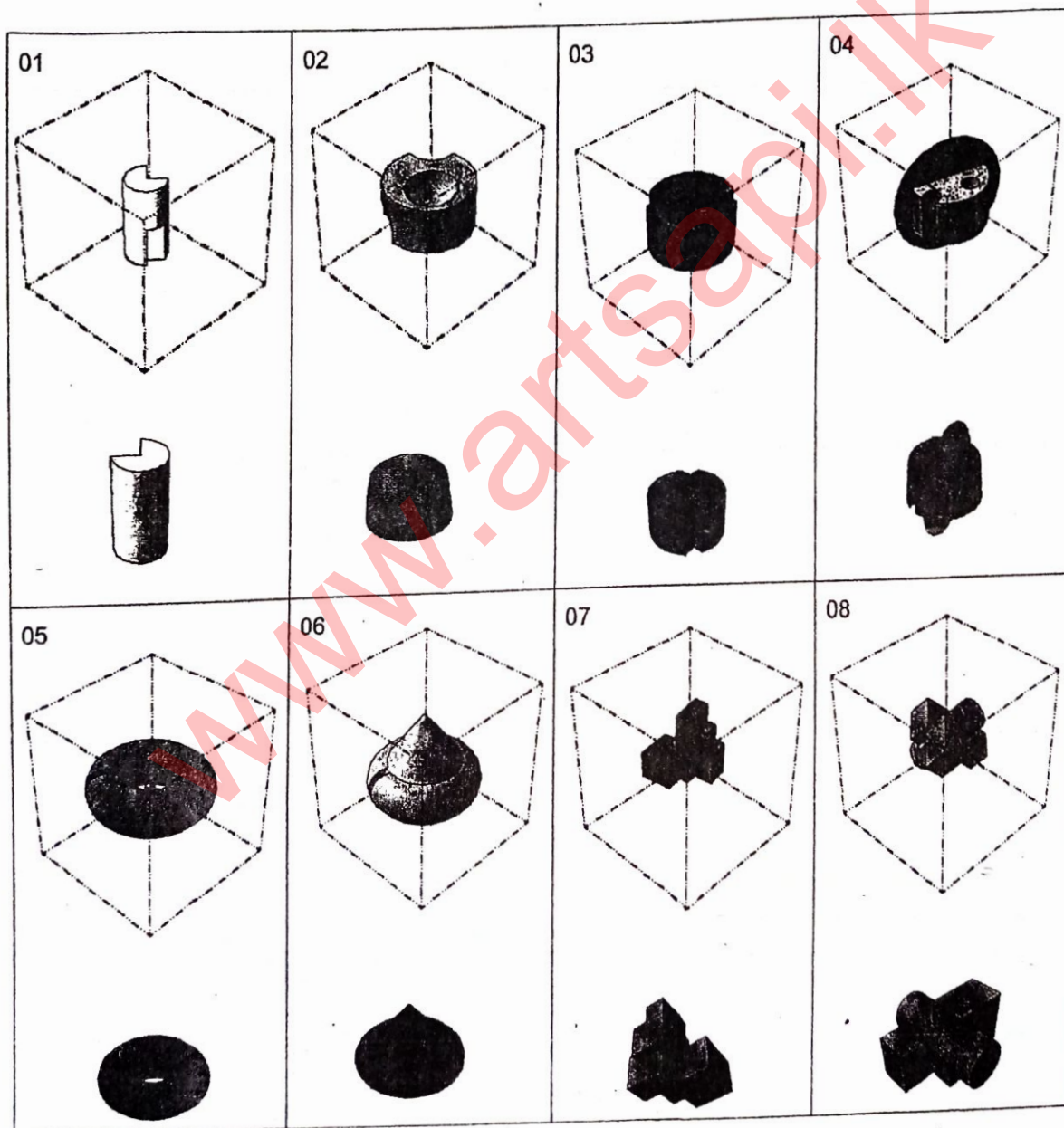
Below it, is picture of the object, in a new viewing position.

You are to;

1. look at the picture of the object taken from the new position
2. imagine yourself moving around the 'glass box', to find the corner from which the picture was taken.

3. Circle that corner

Each question has only one correct answer



INDEX NO:.....

P

QUESTION TWO (40 MARKS)

'Navodya Central School' has decided to erect a temporary structure to mount an overhead water tank, to overcome any inadequacies in the existing the drinking water supply and to fulfil the expected demand during its annual Inter-House Sports Meet. Propose a suitable design for this structure, which is to be constructed at location "A" in the school premises and to be dismantled after the event. Illustration below is an aerial view of the school.



You are provided with:

- 12 units of empty steel barrels, sizes as in Figure 2.
- 6 units of 10.0m long Ropes.
- 4 units of 4.0m long x 50mm diameter steel pipes.
- 16 units of 2.0m long x 50mm diameter steel pipes.
- cylindrical plastic water tank with a capacity of 1000 litres, as in Figure 3

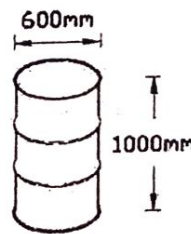


Figure - 2



Figure - 3

1. a: Design a stable 4m high, temporary structure to mount the water tank, only with the resources provided.

Explain both design solution and the construction process with three dimensional sketches in the space provided on page 4. (20 MARKS)

1. b: Imagine you are standing at location 'B' and draw your view of the water tank & the structure with correct background details, in the space provided on page 5. (20 MARKS)

(A)



(B)



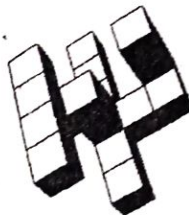
(C)



(D)



(E)



(F)



3.2 Six objects named above as **A, B, C, D, E & F** are designed to pass through a slot of at least one of the twelve different plates indicated below.

Select the object / objects that would pass through and write the name / names below the responding plate in the space provided.

<p>09)</p> <p>.....</p>	<p>10)</p> <p>.....</p>	<p>11)</p> <p>.....</p>	<p>12)</p> <p>.....</p>
<p>13)</p> <p>.....</p>	<p>14)</p> <p>.....</p>	<p>15)</p> <p>.....</p>	<p>16)</p> <p>.....</p>
<p>17)</p> <p>.....</p>	<p>18)</p> <p>.....</p>	<p>19)</p> <p>.....</p>	<p>20)</p> <p>.....</p>

3.3

Identify the shape that is identical to the one on the left.
There maybe more than one which is exactly the same. Circle the correct answer/s.

21					
22					
23					
24					
25					