

## Barem CEX – Pașcani

### Matematică, a VII a, 01.10.2022

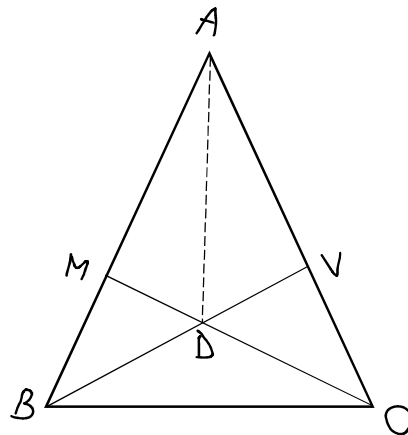
I 1. B ; 2. B ; 3. C ; 4. E ; 5. D ; 6. B . . . . . 6 p.

II

a)  $AB=AC \Leftrightarrow AM+MB=AN+NC$   
 $AM-MB=AN-NC$   
 $2 AM = 2 AN \Leftrightarrow AM=AN$   
 $BN=CN$  } . . . . . 1 p.

b)  $\Delta ABN \equiv \Delta ACM (L.U.L.) \Rightarrow \sphericalangle ABN \equiv \sphericalangle ACM \Leftrightarrow \sphericalangle MBD \equiv \sphericalangle NCD$  . . . . . 1 p.

$BM \equiv CN ; \sphericalangle MDB \equiv \sphericalangle NDC$  (op. vf.)  
 $\Rightarrow \sphericalangle BMD \equiv \sphericalangle CND$   
 $\Rightarrow \sphericalangle MBD \equiv \sphericalangle NCD (U.L.U)$   
 $\Rightarrow BD = DC ;$  . . . . . 1 p.  
 $\Delta ABD \equiv \Delta ACD (L.L.L)$   
 $\Rightarrow \sphericalangle BAD \equiv \sphericalangle CAD \Leftrightarrow$   
**[AD - bisectoarea  $\sphericalangle BAC$**



Oficiu 1 p.

Total 10 p.

**Notă :** Orice soluție corectă primește punctajul maxim.

Soluțiile parțiale se punctează corespunzător.