Answer the questions

(1) The speed of a boat in still water is 15 km/hour. It goes 72 km upstream and return downstream to starting point in 10 hours. Find the speed of the stream.

(2) Faces of a cube are marked with 1,2,3,4,5 and 6. If three views of cube are as shown below, what will be there on the face opposite to face 1 ?
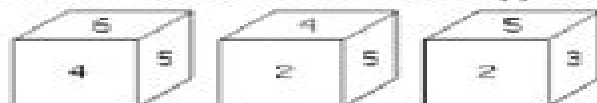
(3) The sum of the 9ᵗʰ element and the 13ᵗʰ element of an arithmetic progression is –220. The sum of the 12ᵗʰ and the 16ᵗʰ element is –292. What is the value of the 27ᵗʰ term?

Choose correct answer(s) from given choice

(4) Find the next term of given sequence ..
14, 42, 70, 98, 154, 182, ___

a. 238	**b.** 252
c. 224	**d.** 242

(5) Which term of the following two arithmetic progressions will have the same value?
–4, 3, 10, 17...., and
185, 183, 181, 179...

a. 22	**b.** 24
c. 23	**d.** 20

(6) Find the next term of given sequence ..
7, 17, 37, 77, 157, 317, ___

a. 643	**b.** 640
c. 631	**d.** 637

(7) Find the next term of given sequence ..
19, 20, 24, 33, 49, ___

a. 74	**b.** 66
c. 78	**d.** 79

(8) Simplify $\cos^6\theta + \sin^6\theta + 3\cos^2\theta\sin^2\theta$

a. 1	**b.** $1 - \sin\theta\cos\theta$
c. $\tan\theta + \cot\theta$	**d.** $\sin\theta\cos\theta$

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