water as one reservoir and a freezing mixture of ice and water as the other reservoir?

A. 27%   B. 67%

C. 12%   D. 100%

(xvi) Power of magnifying glasses is given by:

A. $f + p$ B. $1 + \left(\dfrac{d}{f}\right)$

C. $1 - \left(\dfrac{f}{d}\right)$ D. $1 + fd$

(xvii) Optically active substances are those substances which:

A. Produce Polarized light

B. Produce double refraction

C. Rotate the plane of polarization of polarized light

D. Convert a plane polarized light into circulatory polarized light

SECTION - B (Marks 21)

(Chapters 1 to 6)

Q.2 Answer any SEVEN parts. All parts carry equal marks.   (7×3 = 21)

(i) Write all possible rules for finding significant figures and significant zeros.

(ii) Find the value of 'g' and its uncertainty using $T = 2\pi\sqrt{\dfrac{l}{g}}$ from the following measurements made during an experiment while l=100 cm and time for 20 vibrations is 40.2s. Length was measured by a meter scale of accuracy up to 1 mm and time by stop watch of accuracy up to 0.1 second.