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Chapter 38 and 39 Vocabulary Crossword Puzzle

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| **Across**  **4.** process by which electrons are removed from atoms, causing the harmful effects of radiation in humans.  **6.** anything that occupies space and has form or shape  **7.** a device used to detect and measure an accumulated dosage of radiation  **13.** time between exposure to ionizing radiation and the appearance of symptoms  **17.** the ability to do work  **21.** difference in degrees of blackness on an image  **22.** radiation protection concept meaning, "As Low as Reasonably Achievable"  **23.** the process of recording images of the teeth and adjacent structures by exposure to x-radiation  **25.** film based or digitally produced recordings of anatomic structures  **28.** The portion of the x-ray unit that contains the master switch, indicator light, selection buttons, and the exposure button.  **29.** a filmless method of capturing an image and displaying it by using an image receptor, an electronic signal, and a computer to process and store the image.  **30.** change in the size of an image caused by incorrect vertical angulation  **31.** the blurred or indistinct area that surrounds an image  **32.** the amount of energy absorbed by tissues | **Down**  **1.** a minute (tiny) bundle of pure energy that has no weight or mass  **2.** highest voltage of x-ray tube used during exposure  **3.** The positive electron in the x-ray tube  **5.** the overall darkness or blackness of an image  **8.** an electrically charged particle  **9.** a recording medium (or device) for an image, normally film, phosphor storage plate (PSP), or a digital sensor.  **10.** effect of radiation that are passed on to future generations through genetic cells  **11.** the total energy of the x-ray beam  **12.** the most penetrating beam produced at the target of the anode  **14.** device used to protect the reproductive and blood-forming tissues from scatter radiation  **15.** x-rays at the center of the beam.  **16.** a negatively charged particle in the atom  **18.** basic unit of matter  **19.** one one-thousandth (1/1000) of an ampere; a unit of measurement used to describe the intensity of an electrical current.  **20.** the proportional enlargement of an image  **24.** flexible arm that is attached to the x-ray tubehead  **26.** the mean energy or penetrating ability of the x-ray beam.  **27.** The negative electrode in the x-ray tube |