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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 |