

Physics

Worksheet 3: 28/10/2020

Class - X

CHAPTER 14: PHYSICS TO SAVE LIFE

Instructions:

- ✓ Read the chapter in your book quickly and thoroughly, preferably more than once.
- ✓ Contact me in case of any difficulties in understanding.

(Questions given in this worksheet are important questions for all exams)

MCQs

(Solve Yourself)

- **41.** Which one is used to test stomach?
 - a) CT Scan
 - b) Endoscopy
 - c) ECG
 - d) MRI
- **42.** Which ray is used in radiotherapy to destroy cancer cells?
 - a) X-ray
 - b) Alpha ray
 - c) Beta ray
 - d) Gamma ray
- **43.** Which one of the following is used to determine blood cancer?
 - a) Radioactive iodine
 - b) Radioactive phosphorus
 - c) Radioactive bromine
 - d) Radioactive strontium

- **44.** Which one is used to determine bone cancer?
 - a) Radioactive phosphorus
 - b) Radioactive bromine
 - c) Radioactive iodine
 - d) Radioactive strontium
- **45.** In which case is radioactive iodine used?
 - a) To detect blood cancer
 - b) To detect bone cancer
 - c) To detect skin cancer
 - d) To detect thyroid cancer
- **46.** What is the full form of ETT?
 - a) Exercise Test Tolerance
 - b) Exit Tolerance Test
 - c) Exit Test Tolerance
 - d) Exercise Tolerance Test

- **47.** Which one of the following is done when patients are doing exercise?
 - a) ECG
 - b) ETT
 - c) MRI
 - d) Endoscopy
- **48.** Which one of the following is used to identify disease related to coronary artery?
 - a) ECG
 - b) Endoscopy
 - c) MRI
 - d) ETT
- **49.** Which one of the following is used to view the blood vessels of the body?
 - a) Endoscopy
 - b) Angiography
 - c) ECG
 - d) ETT
- **50.** What kind of ray is used in angiography test?
 - a) Alpha ray
 - b) Beta ray
 - c) Gamma ray
 - d) X-ray
- **51.** The liquid used during angiogram test is called
 - a) mye
 - b) dye
 - c) tye
 - d) kye
- **52.** What are called atoms of the same element having different mass number?
 - a) Isotones
 - b) Isotopes
 - c) Isobar
 - d) Isomer

- **55.** Which of the following isotope is used in cancer treatment?
 - a) 60_{CO}
 - b) ${}^{32}_{17}$ CI c) ${}^{16}_{8}$ 0
- **54.** What kind of ray emits from CO-60?
 - a) Alpha
 - b) Beta
 - c) Gamma
 - d) Ultraviolet
- **55.** Which one is used for the treatment of the abnormal growth of the thyroid aland?
 - a) Cobalt-60
 - b) Iodine-131
 - c) Tecnnetium-99
 - d) Phosphorus-32
- **56.** Which one is used in the treatment of Leukemia?
 - a) Cobalt-60
 - b) Iodine-131
 - c) Technetium-99m
 - d) Phosphorus-32
- **57.** Which isotope is used in the treatment of anemia?
 - a) Iodine-131
 - b) Cobalt-60
 - c) Phosphorus-32
 - d) Technetium-99m
- **58.** Which isotope is widely used in the diagnosis of cancer?
 - a) Iodine-131
 - b) Cobalt-60
 - c) Phosphorus-32
 - d) Technetium-99m

- **59.** Which isotope is commonly used treating blood cancer?
 - a) Cobalt-60
 - b) Iodine-131
 - c) Phosphorus-32
 - d) Technetium-99m
- **60.** Which one of the following is radioactive isotopes?
 - a) $\frac{14}{6}$ C
 - b) $\frac{35}{17}$ Cl
 - c) 60° CO
 - d) $\frac{13}{6}$ C
- **61.** What is used to examine the interior side of hollow organs of our body?
 - a) X-ray
 - b) ETT
 - c) MRI
 - d) Endoscopy
- **62.** Which test is extremely valuable test to form extended images of brain?
 - a) MRI
 - b) CT Scan
 - c) Endoscopy
 - d) Angiography
- **63.** Which diagnosis method is painless and safe?
 - a) ECG
 - b) X-ray
 - c) ETT
 - d) MRI
- **64.** In which diagnosis process Tomography is used?
 - a) ECG
 - b) MRI
 - c) CT Scan
 - d) Angiography

- **65.** What is the most widely used radioactive element in nuclear medicine?
 - a) Cobalt
 - b) Technetium
 - c) Iodine
 - d) Actinium
- **66.** Which instrument is used to compare with a slice of bread to obtain image?
 - a) CT Scan
 - b) MRI
 - c) ECG
 - d) X-ray
- **67.** Partial blockage developed in the coronary arteries of heart is identified by which test?
 - a) Angiography
 - b) ETT
 - c) ECG
 - d) CT Scan
- **68.** Gamma ray emitted from Cobalt-60 is used in the diagnosis of which disease?
 - a) disease of thyroid gland
 - b) to scan the brain
 - c) to diagnose cancer
 - d) to resolve anaemia
- **69.** Intestinal obstruction can be identified by which instrument?
 - a) ECG
 - b) Endoscopy
 - c) Ultrasonography
 - d) X-ray
- **70.** Which one of the following is used to test stomach?
 - a) CT Scan
 - b) ECG
 - c) Endoscopy
 - d) MRI

71. Which one is appropriate for determining the heart rate?

- i. ECG
- ii. Ultrasonography
- iii. MRI

Which one is correct?

- a) i and ii
- b) i and iii
- c) ii and iii
- d) i, ii and iii

72. Appropriate for conducting brain test is -

- i. CT Scan
- ii. Ultrasonography
- iii. MRI

Which one is correct?

- a) i and ii
- b) ii and iii
- c) i and iii
- d) i, ii and iii

73. Appropriate for cancer treatment is -

- i. Radiotherapy
- ii. ECG
- iii. CT Scan

Which one is correct?

- a) i and ii
- b) ii and iii
- c) i and iii
- d) i, ii and iii

74. Appropriate for treatment of blood vessels is -

- i. Angiography
- ii. CT Scan
- iii. Ultrasonography

Which one is correct?

- a) i and ii
- b) ii and iii
- c) i and iii
- d) i, ii and iii

75. Endoscopy is used in -

- i. Identifying fetal position
- ii. Stomach
- iii. Treatment of ear

Which one is correct?

- a) i and ii
- b) ii and iii
- c) i and iii
- d) i, ii and iii

76. Appropriate for testing chest pain is

- i. Endoscopy
- ii. ECG
- iii. Radiotherapy

Which one is correct?

- a) i and ii
- b) ii and iii
- c) i and iii
- d) i, ii and iii

77. Related to ETT test is -

- i. Stationary bicycle
- ii. Catheter
- iii. Treadmill

Which one is correct?

- a) i and ii
- b) ii and iii
- c) i and iii
- d) i, ii and iii

78. In isotopes -

- i. the number of proton is same
- ii. the number of neutron is different
- iii. the number of mass is same

Which one is correct?

- a) i and ii
- b) ii and iii
- c) i and iii
- d) i, ii and iii