Assignment 12

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

1) Activity of a radioactive nucleus is measured using which of the following units?

- Curie
- Gray
- Roentgen
- Sievert

No, the answer is incorrect.
Score: 0
Accepted Answers:
Curie

2) Biological equivalent dose of radiation is measured using which of the following units?

- Curie
- Gray
- Roentgen
- Sievert

No, the answer is incorrect.
Score: 0
Accepted Answers:
Sievert

3) 1 Gray =

- 0.01 J/kg

Due on 2019-04-24, 23:59 IST.
4) Among the following human organs, which one is the most sensitive to radiation?

- thyroid
- bone marrow
- ovary
- lung

No, the answer is incorrect.
Score: 0
Accepted Answers:

5) Among the following activities, which one is most likely to induce the largest effective radiation dose on a human?

- chest X-ray
- CT scan
- cross-country flight
- working in an uranium mine for a year

No, the answer is incorrect.
Score: 0
Accepted Answers:

6) Among the following particles, which one has the largest LET?

- α-particles
- neutron
- electron
- γ-rays

No, the answer is incorrect.
Score: 0
Accepted Answers:

7) Among the following statements, which one is not correct?

- Deterministic effect of radiation is observed only beyond a threshold level of radiation exposure.
- Appearance of stochastic effect is more likely with increase in the radiation exposure.
- The extent of stochastic effect is directly proportional to the strength of radiation dose.
- Deterministic effects generally refer to the immediate effect of radiation, whereas the stochastic effects can span over generations.

No, the answer is incorrect.
Score: 0
Accepted Answers:
The extent of stochastic effect is directly proportional to the strength of radiation dose.
8) Apoptosis is a highly regulated mechanism of cell death. 
- catabolic mechanism of degrading dysfunctional cell components
- cell death mechanism following aberrant mitosis.
- tumour cell death process.

No, the answer is incorrect.
Score: 0
Accepted Answers:
- highly regulated mechanism of cell death.

9) A foetus is likely to develop the possibility of childhood leukaemia, if it is subjected to radiation during.
- first 2 weeks of gestational age.
- 8 – 15 weeks of gestational age.
- 15 – 24 weeks of gestational age.
- 2 – 8 weeks of gestational age.

No, the answer is incorrect.
Score: 0
Accepted Answers:
- 2 – 8 weeks of gestational age.

10) At lower radiation doses, most prevalent of cell killing mechanism is

- Apoptosis
- Necrosis
- Autophagy
- Senescence

No, the answer is incorrect.
Score: 0
Accepted Answers:
- Senescence