Week 1 Assignment

The due date for submitting this assignment has passed.

Assignment submitted on 2019-02-08, 13:46 IST

1) Cell culture can be classified as which method
   - In vivo
   - In vitro
   - Ex vivo
   - Either in vitro or ex vivo

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   In vitro

2) On what principle does HEPA filter operate
   - I. Pressure gradient
   - II. Diffusion and Electrostatic attraction
   - III. Impaction and Interception

   No, the answer is incorrect.
   Score: 0

   Accepted Answers:
   I, II, III

3) CO2 incubators are used when
   - Cells are to be sustained

   No, the answer is incorrect.
   Score: 0
4) In a cell culture dish, the confluency of cells is determined to be 50%. What does it mean?

- Half of the surface of the dish is covered by adherent cells and the rest is occupied by secondary cells
- Half of the surface of the dish is covered by adherent cells and the rest is not occupied by the cells
- Half of the surface of the dish is covered by adherent cells and the rest is occupied by primary cells
- All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
Half of the surface of the dish is covered by adherent cells and the rest is not occupied by the cells

5) Cancer cell line is finite cell line. Is this statement true or false?

- True
- False

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

6) ______ can be used to measure force

- Strain gauges
- Bellows
- Bourdon gauges
- All of these

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

7) The gauge factor in strain gauge represents ______

- Accuracy of sensor
- Sensitivity of the sensor
- Resolution of the system
- none of the above

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

8) In biomedical devices, diaphragms are used to measure pressure. Which of the statement is correct?

- Diaphragms are used to measured large pressures
9) What was the equipment used to characterize the catheter force sensor in the lectures?

- Atomic Force Microscope
- Micromanipulator
- Hydraulic Actuators
- None of the above

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

10) What is the function of autoclave?

- sterilizing equipment
- cell culture
- automated electrical response recording
- automated centrifuge

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

11) ______ provides a safety environment when working with infectious biological materials in the lab

- class 10000 cleanroom
- class 1000 cleanroom
- desiccator
- biosafety hood

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

12) A centrifuge uses ______ difference between the particles and the medium in which they are dispersed

- density
- particle dimensions
- surface roughness
- solubility

No, the answer is incorrect.
Score: 0
13. The non-conventional cleanrooms for biomedical applications are:
- class 100
- class 1000
- class 10000
- class 100000

No, the answer is incorrect.
Score: 0

Accepted Answers:
class 10000

14. After cell culture, used petri dishes are cleaned by:
- UV ray in biosafety hood
- ultrasonic bath
- autoclave
- dip in acetone and IPA

No, the answer is incorrect.
Score: 0

Accepted Answers:
ultrasonic bath

15. Which microscope will you choose to study electroplating coatings and thin films
- inverted microscope
- compound microscope
- stereo microscope
- metallurgical microscope

No, the answer is incorrect.
Score: 0

Accepted Answers:
metallurgical microscope