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**1. Which of the following is not used for detection in GC?**

- A. Infrared spectroscopy
- B. NMR
- C. Flame ionisation
- D. Electrical conductivity

**Answer: B**

**2. Which of these effects result from slow injection of a large sample volume?**

- A. Increased resolution
- B. Decreased resolution
- C. Non-linear detector response
- D. Constant resolution

**Answer: B**

**3. The GC trace obtained after an experiment is called a**

- A. chromatograph
- B. chromatogram
- C. chromatophore
- D. graph

**Answer: B**

**4. Which of the following detectors give concentration-dependent signals?**

- A. Electron-capture detector
- B. Thermal conductivity
- C. Infra-red detector
- D. All of these

**Answer: D**

**5. What useful information can be found from a Van Deemter plot?**

- A. The selectivity factor
- B. Optimum mobile phase flow rate
- C. Optimum column temperature
- D. Optimum column length

**Answer: B**

**6. What is the typical internal diameter of fused silica capillary columns?**

- A. 0.2-0.3 mm
- B. 0.3-0.5mm
- C. 0.5-1.0 mm
- D. 1.0-2.0 mm

**Answer: A**

**7. Resolution is proportional to the**

- A. number of theoretical plates in a column
- B. square root of the number of theoretical plates in a column

- C. square of the number of theoretical plates in a column
- D. cube root of the number of theoretical plates in a column

**Answer: B**

**8. Derivatisation of a sample is carried out to**

- A. reduce polarity of the analytes
- B. increase the detector response
- C. increase volatility of the analytes
- D. all of the above

**Answer: D**

**9. Which of the statements is correct?**

- A. Gas chromatography is used to analyse gases
- B. Gas chromatography is used to analyse solids
- C. Gas chromatography is used to analyse gases, solutions and solids
- D. All of the above

**Answer: D**

**10. In column switching chromatography**

- A. compounds trapped on one column are eluted to another column
- B. one column is removed and replaced by another
- C. the flow to the column is switched on and off repeatedly
- D. any of the above

**Answer: A**