

M.Sc Sem I Paper IV ATKT Mock Test

- 1). Which of the following is not an Optical method of analysis?
 - A).F.T.I.R
 - B). X ray diffraction method
 - C).Mass Spectrometry
 - D). Turbidimetry
- 2).Which of following is not a Electrical means of Encoding information?
 - A).Analog
 - B).Time
 - C).Digital
 - D).Scale position
- 3). Which of the following statement is not correct?
 - A).A detector can be a transducer
 - B).A Transducer is always a detector
 - C).Photo multiplier tube is a detector and not a transducer
 - D).Detector identify and respond to physical or chemical change in environment
- 4). Quartz crystal micro balance is an eample of
 - A).sensor
 - B).Transducer
 - C).Detector
 - D).source
- 5).Weighing hot crucible is an example of ----- error.
 - A).Methodic
 - B).Operational
 - C).Personal
 - D).all of above
- 6).In which of following a substance having nearly same chemical properties as that of analyte is added in sample and standard solutions and the ratio of their responses is measured?
 - A).Calibration curve method
 - B).Internal standard method
 - C).Standard addition method
 - D).All of above
- 7). Which of the following standard is made by organisation of Economic development?
 - A).ISO
 - B).GLP
 - C).ISI
 - D).AGMARK

8). The Periodic inspection within organisation by its staff to check whether the quality system is followed or not is -----

A).Standard operating procedure

B).External quality audit

C).total quality management

D).Internal quality audit

9). The examination in chronological order of all tests done on one particular sample is example of

A).Vertical audit

B).Horizontal audit

C).neither of both above

D).Both of above

10).Which of the following is an accreditation body?

A).ISO

B).GLP

C).NAMAS

D).BSI

11). The solubility product of AgCl will be calculated as

A). S^2

B). $4S^3$

C). $3s^4$

D). $27s^3$

12).A solution of HCl with a concentration of 4×10^{-4} mol L⁻¹ has a pH of which of the following?

A).2.67

B).2.67

C).3.40

D).4.31

13).The normality of 0.2 Molar H₂SO₄ acid will be-----

A).0.4

B).4

C).0.2

D).2

14). What is the composition of Globar rod which is used as a source in Mid IR spectroscopy?

A).Silicon carbide

B).Silver chloride

C).Silicon dioxide

D).Silver carbide

15). Which of the following is not a source of IR?

A).Globar

B).Nernst Glower

C).CO₂ laser

D).Deuterium lamp

16). Michelson 's interferrometer is used in

A).Dispersive IR instttrument

B).F.T.I.R

C).Non dispersive IR

D).All of above

17). Michelson's interferrometer is used as a ----- in I R Inatrumnt

A).Source

B).Recorder

C).Wavelength dispersive component

D).Sample holder

18). Glass transition point in DSC curve means-----

A).The temperature where the glass is formed

B).The temperature where polymer changes from rigid to flexible behavior

C). The temperature relating to sharp peak of crystalline substance

D).None of above

19). The platue region in TGA curve indicate-----

A).Exothermic reaction

B).Endothermic reaction

C).No change in temperature

D).Decrease in temperature

20).In which of the following thermal methods a thermobalance is required

A).DSC

B).DTA

C). TGA

D).All of above

Answer key for M.Sc Semi Paper IV Mock test for ATKTK

Question number	Answer
1	A
2	D
3	C
4	A
5	B
6	B
7	B
8	D
9	A
10	C
11	A
12	C
13	A
14	A
15	D
16	B
17	C
18	B
19	C
20	C