

Started on Sunday, 27 March 2022, 8:30 AM

State Finished

Completed on Sunday, 27 March 2022, 8:46 AM

Time taken 16 mins 31 secs

Marks 9.00/15.00

Grade 6.00 out of 10.00 (60%)

Question 1

Complete

Mark -1.00 out of 1.00

Identify the completely wrong statement

Select one:

- ☐ Oedema is caused by H_2S and CO_2 is asphyxiant gas
- ☐ Oedema is caused by NO_2 and Gases have more chronic effects
- ☐ Gases have more acute effects & NO_2 is asphyxiant gas
- ☒ NO_2 and Ozone primarily attack dyes

Question 2

Complete

Mark 1.00 out of 1.00

Identify the true statements

- (i) Mesosphere is above thermosphere
- (ii) Temperature increases with height in stratosphere
- (iii) Temperature decreases with height in troposphere
- (iv) Temperature increases with height in mesosphere

Select one:

- ☐ (iii) and (iv)
- ☐ (i) and (iii)
- ☒ (ii) and (iii)
- ☐ (i) and (iv)

Question 3

Complete

Mark 1.00 out of 1.00

Fick's first and second law deals with the unsteady state

Select one:

- ☒ False
- ☐ True

Question 4

Complete

Mark 1.00 out of 1.00

The acidified deposits within the boiler and chimney is called

Select one:

- ☐ Dry acid deposit
- ☒ Acid smut
- ☐ Acid mist
- ☐ Wet acid deposition

Question 5

Complete

Mark 1.00 out of 1.00

Identify the completely wrong statement

Select one:

- ☐ Ozone affects the rubber
- ☐ Ozone affects the upper surface of leaves
- ☒ PAN affects the stem of the plant
- ☐ PAN affects the lower surface of leaves

Question 6

Complete

Mark 1.00 out of 1.00

Identify the completely wrong statement

Select one:

- ☐ $\Gamma_d = \text{ELR}$ then Neutral
- ☐ $\Gamma_d > \text{ELR}$ then stable, Sub adiabatic
- ☐ $\Gamma_d \gg \text{ELR}$ then Highly Stable
- ☒ $\Gamma_d < \text{ELR}$ then Stable, Sub adiabatic

Question 7

Complete

Mark -1.00 out of 1.00

The rate of change of SALR with height is

Select one:

- ☐ -5.4° F
- ☐ -1° C
- ☒ -0.6° C
- ☐ none of the above

Question 8

Complete

Mark 1.00 out of 1.00

Due to the earth's rotation

Select one:

- ☒ Objects in the northern hemisphere deflects to right and objects in the southern hemisphere deflect to left
- ☐ Objects in the northern hemisphere deflect to right and objects in the southern hemisphere deflect to the top
- ☐ Objects in the northern hemisphere deflect to left and the objects in the southern hemisphere will deflect to the bottom
- ☐ Objects in the northern hemisphere deflects to left and objects in the southern hemisphere deflect to right

Question 9

Complete

Mark 1.00 out of 1.00

Identify the correct statement:

- (i) Logarithmic sublayer is above viscous sublayer
- (ii) Mixing layer is above the outer layer
- (iii) Free atmosphere is a part of lower layer

Select one:

- ☐ none of the above
- ☐ (ii)
- ☒ (i)
- ☐ both (i) and (ii)

Question 10

Complete

Mark 1.00 out of 1.00

The dimensional formula for eddy diffusivity is

Select one:

- ☒ $L^2 T^{-1}$
- ☐ LT
- ☐ $T L^{-1}$
- ☐ $L T^{-1}$

Question 11

Complete

Mark -1.00 out of 1.00

Acrolein is associated with

Select one:

- ☐ Photochemical smog
- ☐ Inversion
- ☒ both (a) and (b)
- ☐ Dispersion

Question 12

Complete

Mark 1.00 out of 1.00

Which size particles affect the trachea

Select one:

- ☒ both (a) and (c)
- ☐ $PM_{2.5}$
- ☐ $PM_{1.0}$
- ☐ PM_{10}

Question 13

Complete

Mark 1.00 out of 1.00

RSPM stands for

Select one:

- ☐ Reasonable small particulate matter
- ☒ Respirable suspended particulate matter
- ☐ Respirable small particulate matter
- ☐ Reasonable suspended particulate matter

Question 14

Complete

Mark 1.00 out of 1.00

If the density is constant, then the fluid is called as

Question 15

Complete

Mark 1.00 out of
1.00

The gas that leaked during the Bhopal gas incident was

Answer: Methyl Isocyanate

◀ march22nd(tue)(830am quiz2)

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Major(April10th Sunday)(8am onwards) ▶