Blank Practice Quizzes

Observer Refresher Training / 2023-2026

11 quizzes / 220 questions

Blank practice copies preserve the original question wording and choices. Some questions allow multiple answers. Names, scores, handwriting, return deadlines, and answer keys have been omitted.

Questions reused in different years remain in each original quiz. Unclear or flawed original questions have not been silently rewritten. Consult the separate answer review after completing a quiz.

Collection

October 2023 Fall/Winter Quiz - 20 questions

Winter 2024 Refresher Training - 20 questions

Spring 2024 Refresher Training - 20 questions

Summer 2024 Refresher Training - 20 questions

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One additional marked scan has an unconfirmed quiz date and is excluded. Original scan files remain in the private archive.

October 2023 Fall/Winter Quiz

Name: _____ Date: _____

20 questions | Original order retained

1. The intensity of freezing drizzle is determined according to the:

a. the temp/dew point spread
b. degree that it affects visibility
c. rate of accumulation
d. size of the drops

2. A SPECI shall be transmitted whenever freezing precipitation or ice pellets _____, _____, or _____.

Answer: _____

_____

3. Any form of precipitation that freezes on impact and forms a glaze on the ground or exposed surfaces is called:

a. snow grains
b. snow pellets
c. ice pellets
d. freezing precipitation

4. Match the precipitation type with it's definition:
1. _____ snow grains
2. _____ ice pellets
3. _____ snow pellets

A. White, opaque grains of ice.
B. Very small, white, opaque grains of ice.
C. Transparent or translucent pellets of ice

Answer: _____

_____

5. ASOS has failed and you are taking manual obs. Using a backup psychrometer, you determine the dry bulb temp to be -0.5C. The temp shall be transmitted as:

a. M01
b. 00
c. -01
d. M00

6. Which of the following does NOT require a SPECI ?

a. -SN changes to +SN
b. Small hail ends
c. -FZDZ ends
d. a squall is observed.
e. Snow grains begin or end.

7. If ASOS detects both light freezing rain and light snow, what will it report for present weather?

a. -FZDZ
b. -SN
c. UP
d. -FZDZSN

8. The visibility criteria for moderate ice pellets (PL) is:

a. 3-6SM
b. 1-3SM
c. less than1SM

9. Match the present weather with the correct prevailing visibility.

1. _____ 1/2SM
2. _____ 1/4SM
3. _____ 3/4SM
4. _____ 1SM

a. SN
b. +SN FG
c. SN FG
d. FZDZ

Answer: _____

_____

10. With a present weather scenario of SN FG, which of the following prevailing visibility values would be invalid:

a. 1/2SM
b. 1/4SM
c. 5/8SM
d. 0SM

11. If ASOS detects snow at temps above 38F, then the PI sensor is set to:

a. -SN
b. UP
c. -RA
d. NP

12. Along with a visibility and sky cover requirement, ASOS reports blowing snow with a temp of_____F or less, and wind speeds greater than_____KTS.

a. 32F / 30KTS
b. 28F / 25KTS
c. 14F / 22KTS
d. 20F / 15KTS

13. With a prevailing visibility of 1/2SM, which of the following would be a valid present weather entry?

Select all that apply.

a. +SN
b. +SN FG
c. SN
d. -SN FG

14. The ASOS wind sensor is out of service. Using the airport wind system, the ATCT informs you the winds are averaging 25KTS over the past 2 minutes, and varying rapidly between 20 and 30KTS. This backup information would be entered via the OID as:

a. 25
b. 25G30
c. 20G30
d. 20Q30

15. TRUE or FALSE: The intensity of ice pellets may be determined by either visibility or rate of fall.

A. True
B. False

16. You are taking manual obs due to ASOS failure. Snow is occurring 3-6 miles southeast of the station. The correct present weather entry shall be:

a. SHSN
b. VCSN
c. VCSH
d. VCSHSN

17. The prevailing visibility has decreased from 1SM in BR to 1/2SM, while the temp has decreased from 1C to 0C. The correct present weather entry is:

a. FZFG
b. BR
c. FZBR
d. FG

18. At 0453Z you observe 4" of snow on the ground. At 0515Z it begins to snow. At 0553Z you measure 4.5" of snow. The required snow remarks are:

a. SNINCR 1/5 4/005
b. 4/005
c. SNINCR 1/5
d. 4/004

19. Temperatures of, -0.3C, -0.5C, and -4.5C, should be transmitted as:

a. 00 M01 M05
b. M00 M00 M04
c. 00 M01 M04
d. M00 M00 M05

20. Which of the following precipitation events requires a SPECI:

a. hail begins or ends
b. freezing rain begins, ends, or changes intensity
c. ice pellets change intensity.
d. snow intensity changes from heavy to light.
e. all of the above.

Winter 2024 Refresher Training

Name: _____ Date: _____

20 questions | Original order retained

1. The ASOS freezing rain report is set to FZRA if the current 5 minute ambient temp is less than_____F

A. 37
B. 32
C. 30
D. 28

2. With a surface prevailing visibility of 1/4SM, which of the following present weather example would be valid?

A. -SN FG
B. BLSN
C. +SN
D. SN FG
E. All examples are valid.

3. A thunderstorm with light snow is occurring at the station. The sky condition is OVC030CB. A snow squall moves over the airport reducing the surface prevailing visibility to 1/4SM. The sky has become totally obscured with a vertical visibility of 700 feet. What would be the correct sky condition?

A. VV007
B. VV007CB
C. OVC007CB
D. OVC007

4. You are estimating that blowing snow is obscuring half of the sky. Above the blowing snow, the remainder of the sky is covered by a cloud layer based at 1000 feet. Which of the following is the correct sky condition and remarks?

A. SCT000 OVC010 / BLSN SCT000
B. SCT000 SCT010 / SN SCT000
C. SCT000 OVC010 / SN SCT000
D. SCT000 BKN010 / SN SCT000

5. The stated accuracy of the ASOS pressure sensors is +/- _____inches of mercury.

A. .01
B. .02
C. .03
D. .04

6. The RVR is an estimate of the _____distance the runway or runway lights can be seen.

A. Maximum

B. Minimum

C. Average

7. The following sector visibilities are being observed in snow and blowing snow conditions: N-NE 1/2, NE-E 3/4, E-S 1/4, S-SW 1, SW-W 1/2, W-N 1/4. Which of the following is the correct combination of prevailing visibility and present weather?

A. 1/4SM / +SN BLSN

B. 1/2SM / SN BLSN

C. 3/4SM / -SN BLSN

D. 1SM / -SN BLSN

8. Match all listed precipitation types with it's partial description.

1. _____ Freezes on impact.
2. _____ Branched crystals.
3. _____ Unbranched crystals
4. _____ White opaque grains of ice.
5. _____ Transparent of translucent.

A. FZDZ

B. FZRA

C. SN

D. GS

E. IC

F. PL

Answer: _____

_____

9. At the time of the 1800 UTC report, there is 2 inches of frozen precipitation on the ground, consisting of 1 inch of small hail, topped by 1 inch of snow. This melts down to 0.19 inches water equivalent. What, if anything, should be reported for the 933RRR group?

A. 933019

B. 933002

C. 933190

D. No report required, as the measurement consisted partly of hail.

10. TRUE or FALSE: The descriptor shallow (MI), partial (PR), and patches (BC), shall only be coded with fog.

A. True

B. False

11. Blowing snow is visible over 6/8's of the sky. However, only 3/8's of the blowing snow is hiding the sky. No clouds were visible. Encode the sky condition.

A. BKN000
B. SCT000
C. CLR
D. FEW000

12. Between 16 and 17Z, 0.4" of snow has accumulated on the ground. Between 17 and 18Z, an additional .0.4" accumulates, for a total snow depth of 0.8". Which of the following groups should be transmitted at 18Z?

A. SNINCR 0/1 4/001
B. SNINCR 1/1 4/001
C. 4/001
D. None are required.

13. Checking the snow depth for the 18Z metar, you note that half of the measurement area is covered with about 3 inches of snow, while the other half is bare. Which of the following groups would be required to be transmitted?

A. 933RRR
B. 4/sss
C. Both are transmitted.
D. Neither transmitted

14. TRUE or FALSE: For the purpose of depth measurement, the term snow shall include hail.

A. True
B. False

15. Convert the following wind speeds from knots to mph:

A. 50KTS_____MPH
B. 30KTS_____MPH.
C. 65KTS_____MPH
D. 45KTS_____MPH.

Answer: _____

_____

16. Which of the following does not meet the definition of a ceiling?

Select all that apply.

A. VV006
B. BKN000
C. BKN250
D. BKN000 (RMK: FG BKN000)

17. Along with other conditions, ASOS will report blowing snow when the wind speed is greater than_____knots.

A. 10
B. 15
C. 20
D. 22

18. Under which of the following temp / visibility examples would ASOS report freezing fog?

A. 1C / 3/4SM
B. -1C / 1/2SM
C. 0C / 1/4SM
D. -1C / 3/4SM

19. On the Beaufort Scale, slight structural damage would correspond with wind speeds of_____knots

A. 34-40
B. 41-47
C. 48-55

20. How would ASOS report a 2 minute average wind speed of 30 knots, rapidly fluctuating between 26 and 35 knots?

A. 30G35KT
B. 30KT
C. 26Q35KT
D. 26G35KT

Spring 2024 Refresher Training

Name: _____ Date: _____

20 questions | Original order retained

1. TRUE or FALSE: After an aircraft mishap, the ASOS/AWOS observations should be archived by either the on site observer or the AOMC.

A. True
B. False

2. While evaluating the outdoor elements for the hourly metar, the sky is clear, but you note a well developed dust whirl south of the airport. What, if any entries, should be entered into the present weather and or manual remarks field?

A. Enter PO in the present weather field with any corresponding remarks.
B. No entry is required as PO cannot be entered into the present weather field.
C. Enter PO and any corresponding remarks in the remarks field.
D. Enter FC in the present weather field with any corresponding remarks

3. Evaluating the sky condition, you observe an ongoing thunderstorm just north of the station with bases at 2500 feet covering 2/8s of the sky, moving east. 1 cloud to ground lightning strike is noted in about two minutes time. A CB covering 1/8 of the sky, with bases at 4000 feet, is located more than 10 miles east of the station, and is also moving east, and you observe about 3 lightning strikes within the cloud, in about one minutes time. Encode the sky / and manual remarks field.

A. FEW025CB SCT040CB / OCNL LTGCG N FRQ LTGIC DSNT E TS N MOV E CB DSNT E MOV E
B. FEW025CB SCT040 / OCNL LTGCG N FRQ LTGIC DSNT E TS N MOV E CB N AND DSNT E MOV E
C. FEW025CB SCT040 / OCNL LTGCG N FRQ LTGIC DSNT E TS N MOV E CB DSNT E MOV E
D. FEW025CB SCT040 / OCNL LTGCG N FRQ LTGIC DSNT E TS CB N MOV E CB DSNT E MOV E

4. In the event of an aircraft mishap, the person archiving shall wait at least _____ hour(s) after the mishap before archiving the 5 minute observations, and at a minimum, archive the data for a period from _____ hour(s) before to _____ hour(s) after the incident.

A. 1 / 1 / 1
B. 2 / 1 / 1
C. 1 / 2 / 2
D. 2 / 2 / 2

5. What would be the consequence, if any, of manually changing the altimeter setting on the ASOS 1-minute screen?

A. ASOS will revert back to the ASOS/AWOS generated altimeter setting after a metar transmits.
B. Report processing will be turned off by ASOS/AWOS, and must be turned back on by the observer.
C. Report processing for the altimeter is turned off by ASOS/AWOS, which can only turned back on by an NWS tech.
D. Report processing for the altimeter is turned off by ASOS/AWOS, which can only be turned back on by the AOMC.

6. How are cloud layer heights reported by ASOS/AWOS?

A. Above ground level with respect to the station elevation.
B. Above ground level with respect to the field elevation.
C. Above ground level with respect to the ACU.
D. Above ground level with respect to the DCP.

7. The current 1-minute screen shows 3/4SM visibility and BR for present weather. The tower vis field is blank. Tower now enters 1/2SM in the tower vis field. What will ASOS/AWOS now show in the visibility / Present weather / remarks field?

A. 1/2SM / FG / SFC VIS 3/4
B. 3/4SM / BR / TWR VIS 1/2
C. 1/2SM / BR / SFC VIS 3/4

8. You are observing the following sector visibilities: N-NE 1/2 NE-E 2 E-SE 1 3/4 SE-S 1/2 S-SW 1 SW-W 1 1/2 W-NW 3/4 NW-N 2. What is the prevailing visibility?

A. 2SM
B. 1SM
C. 1 1/2SM
D. 3/4SM

9. ASOS/AWOS is reporting a temperature of 70F and a dew point of 66F. Surface visibility is 4SM. BR is reported in the present weather field. The dew point is suddenly set to missing. What will ASOS/AWOS now report for present weather?

A. BR
B. HZ
C. FG
D. No report.

10. Necessary conditions for ASOS/AWOS to report a totally obscured sky include a surface visibility of _____ mile or less and a high percentage of unknown hits at or below _____ feet agl.

A. 1/4 / 500
B. 1/2 / 1000
C. 3/4 / 1500
D. 1 / 2000

11. Which of the following manual remarks are correct and in the right order?

Select all that apply.

A. FRQ LTGCG TS SE MOV W
B. TS N MOV W CB N AND DSNT W MOV W
C. OCNL LTG ICCG SW
D. CB DSNT NW-W
E. TS ALQDS FRQ LTGIC
F. OCNL LTGIC N TS N MOV E CBMAM DSNT E
G. TCU W MOV S

12. Which of the following would cause ASOS/AWOS to generate a speci?

Select all that apply.

A. Hail size changes from 1/8" (GS) to 1" (GR) in diameter.
B. Sky condition changes from OVC004 to BKN005.
C. ASOS/AWOS visibility changes from 1 3/4 SM to 1 SM.
D. Sky condition changes from BKN015 to OVC029.
E. RVR changes from 1800V2400FT to 1800V2200FT

13. TRUE or FALSE: A variable ceiling at or above 3000 feet shall never be reported as variable in an observation.

A. True
B. False

14. When visibility is varying rapidly during the time of observation, the reported prevailing visibility is:

A. The average of the lowest observed values.
B. The average of all observed values.
C. The highest observed value.
D. The lowest observed value.

15. A thin layer of smoke covering less than 1/8th of the sky moves over the airport, with the base estimated at 1000 feet. What are the correct entries in the sky and or manual remarks field?

A. CLR with no remark
B. FEW010 with the remark: FU FEW010.
C. FEW010 with no remark.
D. CLR with the remark: FU OHD.

16. Would it ever be possible for ASOS/AWOS to report a wind of: VRB03G14KT in a metar?

A. YES
B. NO

17. ASOS/AWOS begins reporting BKN022 in the SKY field. A quick check of the ceilometer screen shows hits varying between 2000 and 2400 feet. What, if anything, will ASOS/AWOS report in the auto remark for SKY?

A. No report.
B. CIG 020V024
C. CIG 20V24
D. CIG 022V

18. If the ASOS/AWOS determined dew point temp exceeds the ambient temp by 2 degrees F, the dew point temp is:

A. Set to missing.
B. Set to equal the ambient temp.

19. Which of the following are valid ASOS/AWOS generated wind data?

Select all that apply.

A. VRB04G14KT
B. 27006KT 240V300
C. 18030Q60KT
D. VRB07KT
E. 270112KT
F. 27008KT 250V300
G. VRB06KT 200V260

20. An automated RVR system uses _____ sensor(s) to estimate the RVR value.

A. 1
B. 2
C. 3
D. 4

Summer 2024 Refresher Training

Name: _____ Date: _____

20 questions | Original order retained

1. You are observing a funnel cloud 5 miles southeast of the station, but movement cannot be determined. Movement shall be entered as:

A. MOVMT UNKN
B. MOVMT UNK
C. STNRY
D. MOV UNKN

2. The wind direction shall be considered variable, if during the 2 minute evaluation period, it varies by _____ degrees or more, when the average wind speed is greater than _____ knots.

A. 45 degrees / 6 knots
B. 60 degrees / 5 knots
C. 45 degrees / 7 knots
D. 60 degrees / 6 knots

3. Which of the following remarks are valid?

Select all that apply.

A. OCNL LTG IC SW
B. OCNL LGTIC SW
C. OCNL LTGIC SW
D. CB SE MOVG W
E. CB SE MOV W
F. TS MOVD W

4. The hourly rate of fall required for moderate rain (RA) is:

A. .10"/hr
B. .15" to .30"/hr
C. .11" to .30"/hr
D. .10" to .20"/hr

5. A hailstorm occurs between 17-18Z. At the time of the 18Z metar, hail 2" deep covers the area. Is the 933RRR group required at 18Z?

A. YES
B. NO

6. You are observing an isolated TCU, covering less than 1/8th of the sky, based at 3000 feet, more than 10 miles west of the station, moving north. What would the correct entries in the sky and manual remarks field be?

A. FEW030TCU / TCU DSNT W
B. FEW030 / TCU DSNT W MOV N
C. CLR / TCU DSNT W
D. FEW030 / TCU DSNT W

7. In checking the outside elements for the hourly metar, you observe the following sky condition: TCU just north and distant east. CB distant west and CBMAM distant NW. ACC distant south. How should the manual remarks field be encoded?

Select all that apply.

A. TCU N AND DSNT E CB DSNT W ACC DSNT S CBMAM DSNT NW
B. CB DSNT W CBMAM DSNT NW TCU N AND DSNT E ACC DSNT S
C. CB DSNT W AND NW TCU N AND DSNT E ACC DSNT S
D. CBMAM DSNT NW CB DSNT W TCU N AND DSNT E ACC DSNT S

8. During the past 10 minutes, the RVR has been reporting values ranging from 1200 to 4000 feet. What will ASOS input into the RVR field?

A. 1200FT
B. 4000FT
C. 1200V4000FT
D. 2600FT

9. Which of the following would always meet special criteria?

A. The wind changes from 240 degrees at 10 knots to 280 degrees at 10 knots in less than 15 minutes.
B. The average 2 minute wind speed suddenly increases by 16 knots and is sustained at 20 knots for 3 minutes.
C. Rain intensity changes from light to moderate.
D. A thunderstorm is being reported in the present weather field and a second thunderstorm develops.
E. The one minute RVR reading changes from 1200 to 2200 feet.
F. None of the above.

10. Light drizzle is occurring along with fog. Which of the following prevailing visibility values may not be reported?

A. 1/2SM
B. 0SM
C. 3/4SM
D. 1/4SM

11. The average 2 minute wind suddenly increases from 270 degrees at 15 knots to 30 knots with gusts to 45 knots. These conditions persist for 2 minutes. What will ASOS input into the body of the pending observation?

A. 27030Q45KT
B. 27030G45KT
C. 27030G45KT (with SQ in present weather)
D. 27015G45KT

12. A substantial part of the station is covered by fog. However, you determine that the prevailing surface visibility is 10SM. Which present weather type listed below would fit this scenario?

A. MIFG
B. BCFG
C. VCFG
D. PRFG
E. FG
F. BR

13. A thunderstorm is located overhead thru east of the station. A light shower of small hail the size of B-B's is falling, but not reducing visibility. What entry would the present weather field accept?

A. -TSGS
B. TSGS
C. -TSSHGS
D. TSSHGS

14. 1/8th coverage of TCU with bases at 4000', is located just sw-nw of the station. 2/8's coverage of CB with bases estimated at 2500' is more than 10 miles north. A layer of CBMAM, based at 12000', covering less than 1/8th of the sky, is overhead. How would you encode the SKY field?

A. FEW025 SCT040TCU SCT120CB
B. FEW025 SCT040TCU
C. FEW025CB SCT040TCU SCT120CB
D. FEW025 SCT040TCU SCT120

15. Which of the following are correct manual remarks?

Select all that apply.

A. TS CB OHD MOV E
B. CBMAM S MOV E
C. OCNL LTGIC TS W MOV E
D. TS OHD MOV S OCNL LTGIC
E. TCU E MOV S
F. FRQ LGTIC DSNT E

16. The observed prevailing visibility and present weather at 1553 is: 1 1/2SM +RA. Which of the following changes in prevailing visibility would require a special?

A. 1SM
B. 1 1/4SM
C. 1 3/4SM
D. 2SM

17. Put the following remarks in their correct numerical order:
1. _____
2. _____
3. _____
4. _____
5. _____

A. OCNL LTGIC DSNT W
B. VIS NE 2 1/2
C. CB DSNT W
D. VIRGA
E. BKN014 V OVC

Answer: _____

_____

18. Which of the following will ASOS not accept in the present weather field?

Select all that apply.

A. PRFG
B. VCPO
C. VCBLDU
D. BLPY
E. DRDU
F. PO

19. Which of the following phenomena require a prevailing visibility of less than 5/16SM?

Select all that apply.

A. SS
B. +DS
C. +SS
D. DS

20. Haze particles may be composed of:

A. Dust.

B. Salt

C. Pollen

D. All apply.

Fall 2024 Refresher Training

Name: _____ Date: _____

20 questions | Original order retained

1. Unless considered operationally significant, which obscuration do you not report unless it reduces visibility to <7SM?

a. VA
b. MIFG
c. BLSN
d. BCFG

2. Which is not included as a term for "snow" as it pertains to snow depth measurement?

a. Pack ice
b. Sheet ice
c. Glaze
d. Ice pellets

3. Which will you enter for your snow increasing rapidly remark if you have had a snow depth increase of 2 inches within the past hour due to new snowfall and your total snow depth on the ground has increased from 6 to 8 inches?

a. SNINCR 2
b. SNINCR 8
c. SNICNR 2/8
d. SNINCR 6/8

4. The 3-hourly pressure tendency group shall be coded as _____ when the atmospheric pressure is lower than 3 hours ago and has been steadily decreasing, with a change of .015 inches of mercury.

a. 52005
b. 57045
c. 47005
d. 57005
e. none of the above

5. If both -SN and -FZRA are occurring and detected by ASOS, what will ASOS report for present weather?

a. -SN.
b. -FZRA.
c. -SN FZRA.
d. -FZRA SN.

6. Which entry best describes what the observer should report in sky condition and remarks if the surface-based obscuration above the ASOS has dissipated to less than 8/8 coverage and no signal returns are detected on the Cloud Height Indicator. However, the sky continues to be obscured to 5/8 coverage along the surface horizon?

a. CLR (no remark required)
b. VV/// CIG 000V001
c. VV000 BKN V OVC
d. BKN000 BR BKN000

7. The ASOS has a partial malfunction and you must augment present weather manually. During the past hour the only weather observed has been minute water particles that appear to float in the air. A thin coat of ice is developing on surfaces. What should you enter for present weather given the following conditions reported in the METAR?

METAR KXYZ 270754Z 31006KT 1/2 ____ OVC007 M01/M03 A2984 RMK A02 SLP096 P0000 T10111031

a. FZFG
b. -FZDZ
c. FZDZ
d. -FZRA

8. What is the major disadvantage of the ASOS visibility sensor?

a. Reporting visibility values too low due to backscattering during "airlight" conditions.
b. Small sample volume places undue emphasis on small-scale atmospheric differences.
c. Attenuation caused by light absorption of atmospheric contaminants.
d. Inconsistency and variation due to sun angle effect.

9. What may cause the ASOS to report an abrupt change in visibility value near sunrise?

a. Sunlight increases backscatter detection of the visibility sensor.
b. Sunlight decreases backscatter detection of the visibility sensor.
c. Sunlight causes a shift in the extinction coefficient calculation from night to day.
d. Sunlight causes a forward scatter of transmissivity in the visibility sensor.

10. At what temperature value will ASOS begin to report freezing rain if detected?

a. <= 32 degrees F
b. <= 34 degrees F
c. <= 36 degrees F
d. <= 38 degrees F

11. Which obscuration will ASOS most likely report for present weather in this METAR?

METAR KXYZ 230554Z 34023G33KT 1/2 ____ SCT110 M11/M14 A2984 RMK A02 SLP096 4/002 57032

a. HZ.
b. FG
c. FZFG.
d. BLSN.

12. What will the ASOS Cloud Height Indicator most likely display on the OID screen after analyzing only "unknown hits" that cannot be processed as definite cloud returns?

a. "M" for missing cloud cover.
b. "CLR" for no clouds detected.
c. "VV" for vertical visibility.
d. "///" for surface based obscuration.

13. What should you augment into ASOS for present weather if the prevailing visibility is 7SM, however there are isolated visibility markers within 1/2SM in all sectors that are obscured by fog?

a. VCFG
b. BCFG
c. MIFG
d. PRFG

14. Within the continental United States what standard time is used to record snow depth for daily summary climatological data at all stations operating 24-hours?

a. 0000 LST
b. 0000 UTC
c. 0600 UTC
d. 1200 UTC

15. What would be the correct prevailing surface visibility and remarks if you observed the following sector visibility conditions?

N-NE: 1SM NE-E: 2SM E-SE: 3SM SE-S: 4SM S-W: 5SM W-N: 4SM

a. 4 VIS N-NE 1 NE-E 2 E-SE 3
b. 4 VIS N-NE 1 NE-E 2
c. 3 VIS N-NE 1 NE-E 2
d. 3 VIS 1V5

16. Which of the following ceiling conditions would require a variable ceiling height remark if the height increases and decreases rapidly during the period of observation?

a. Average height of 3,000ft with variations from 2,500 to 3,500.
b. Average height of 2,500ft with variations from 2,300 to 2,700.
c. Average height of 1,500ft with variations from 1,400 to 1,700
d. Average height of 1,000ft with variations from 900 to 1,100.

17. Which stations are always required to augment visibility values below M1/4SM when they are observed, regardless of operational significance?

a. Category A stations only.
b. Category A and B stations.
c. No stations are required due to ASOS software limitations.
d. All stations are always required to augment these values when observed.

18. What should be encoded on ASOS for present weather when wind lifts snow to a height of 6 feet and restricts visibility to 1/4SM or less?

a. DRSN
b. -BLSN
c. BLSN
d. +BLSN

19. What would be the correct prevailing surface visibility and remarks if the following conditions were observed during the evaluation period?

Surface visibility in all sectors was determined to be increasing and decreasing rapidly between 2SM and 4SM but tower determines that their visibility is a consistent 4SM.

a. 3 VIS 2V4
b. 3 TWR VIS 4 VIS 2V4
c. 3 VIS 2V4 TWR VIS 4
d. 3 TWR VIS 4

20. You observe the sky condition to be overcast by a white opaque layer that is visible through a layer of transparent gray patches. These patches cover more than half of the sky and appear to move rapidly below the white overcast layer. The ASOS reports a single layer in sky condition of OVC008 from a field elevation of 300ft. The ATC tower relays a pilot report they just received from a departing aircraft. It states the lowest clouds observed were 800ft mean sea level. What should you carry for sky condition?

a. OVC005
b. BKN005 OVC008
c. OVC008
d. BKN008 OVC011

Winter 2025 Refresher Training

Name: _____ Date: _____

20 questions | Original order retained

1. For the 1800Z metar, you determine that the depth of ice and snow is 1.9". 0.5" consists of ice from a freezing rain event and 1.4" consists of a recent snowfall. What would you enter for the 4/sss group?

A. 4/002
B. 4/001
C. 4/019
D. No entry, as depth is < 2" at 18Z

2. In checking the outside elements for the hourly metar, you note that blowing snow is reducing the prevailing surface visibility to 3SM. You also observe light snow falling. The present weather field would be coded as:

A. -BLSN SN
B. BLSN -SN
C. -SN BLSN
D. BLSN

3. "Raised by wind to less than 6 feet above the ground", describes which of the following weather phenomena:

Select all that apply.

A. MIFG
B. DRSN
C. DRDU
D. DRSA
E. BR
F. BLPY

4. A thunderstorm is occurring at the station. A moderate rain shower and light snow is noted. What would be the correct entry in the ASOS present weather field?

A. -TSSNRA
B. TSRASN
C. TSSNRA
D. -TSRASN

5. Which of the following would cause ASOS to generate a speci:

Select all that apply.

A. -FZDZ changes to -FZRA
B. A smoke layer at 900 feet entered into the sky field
C. PL changes to -PL
D. Ceiling changes from BKN004 to BKN005

6. Snow pellets are falling, reducing the prevailing visibility to 3SM. What will ASOS report for present weather?

A. -SN
B. BR
C. FZRA
D. RA

7. In preparation for the 1800Z metar, you note that 2.1 inches of snow is on the ground. You melt it down and determine the water equivalent is 0.22 inches. How is this encoded in the 933RRR group?

A. 933022
B. 933002
C. 933220
D. 933000

8. What is the correct order in remarks for the SNINCR, 933RRR, and 4/sss groups?

A. SNINCR 4/sss 933RRR
B. 933RRR SNINCR 4/sss
C. 4/sss SNINCR 933RRR
D. SNINCR 933RRR 4/sss

9. ASOS has failed and you are in manual backup mode. You determine the dry bulb temp to be -1.5C. How would this be entered in column 11 of the MF1M-10C form?

A. -01
B. M01
C. -02
D. M02

10. You are in manual observation mode and observe blowing snow conditions with a prevailing surface visibility of 1/2SM. The blowing snow is obscuring about 1/2 the sky and no clouds are noted. What would be the correct entries on the observation form for sky condition / remarks?

A. BKN000 / SN BKN000
B. SCT000 / no remark
C. SCT000 / BLSN SCT000
D. SCT000 / SN SCT000

11. At the time of the 1200Z metar there is 1/4 inch of glaze on the ground, topped by 1/4 inch of ice pellets. What should be reported for the 4/sss group?

A. No report.
B. 4/000
C. 4/001
D. 4/0005

12. The prevailing surface visibility has decreased from 1SM in BR to 1/2SM, while the temp has decreased from 1C to 0C. The correct present weather entry is:

A. FZBR
B. FZFG
C. FG
D. BR
E. IC

13. If ASOS detects snow at a temp >38F, the PI sensor is set to:

A. NP
B. -SN
C. UP
D. -RA

14. Match the precipitation type with its definition:
1. ____ snow grains
2. ____ ice pellets
3. ____ snow pellets

A. White, opaque grains of ice.
B. Very small, white, opaque grains of ice
C. Transparent or translucent pellets of ice

Answer: _____

_____

15. Which of the following combinations of present weather and prevailing surface visibility are valid?

A. +PL BR 2 1/2SM
B. [unclear intensity prefix]SN FG 1/4SM
C. DS 1/2SM
D. BR BCFG 3SM
E. All examples are correct

16. You are checking the prevailing visibility and note the following sector visibilities:
N-E 3/4 E-SE 1/2 SE-S 1/4 S-SW 1 SW-NW 1/2 NW-N 1/4
Snow is falling. What is the prevailing visibility and present weather?

A. 3/4SM -SN
B. 1/4SM +SN
C. 1/2SM SN

17. Field elevation is considered to be:

A. The elevation of the ACU
B. The elevation of the ACU
C. The elevation of the CWO
D. The highest point on any runway

18. If ASOS detect both -FZRA and -SN, what will it report for present weather?

A. UP
B. -FZRA
C. -FZRASN
D. -SN

19. Which of the following meet the criteria for a variable ceiling?

A. Ceiling BKN008; Ceiling varying between 700 and 900 feet.
B. Ceiling BKN029; Ceiling varying between 2700 and 3200 feet.
C. Ceiling BKN015; Ceiling varying between 1300 and 1700 feet.
D. All of the above meet the criteria.

20. With a surface prevailing visibility of 1/2SM, which of the following present weather examples are correct?

Select all that apply.

A. +PL
B. -SN FG
C. SN FG
D. BLDU
E. FZDZ
F. All examples are correct.

Summer 2025 Refresher Training

Name: _____ Date: _____

20 questions | Original order retained

1. In determining the prevailing visibility, how many sectors can the horizon be divided into?

A. 8
B. 6
C. 4
D. 2

2. If the visibility is varying rapidly during the time of observation, the observer should use which of the following in determining the prevailing visibility:

A. The lowest observed value.
B. The highest observed value.
C. The average of all observed values.

3. What is the definition of prevailing visibility?

A. The lowest visibility equaled or exceeded throughout half or more of the horizon circle, which need not be continuous.
B. The greatest visibility exceeded throughout at least half of the horizon circle, which need not be continuous.
C. The lowest visibility exceeded throughout half or more of the horizon circle, which need not be continuous.
D. The greatest visibility equaled or exceeded throughout at least half of the horizon circle, which need not be continuous.

4. The following visibility values were observed: N 2, E 1 7/8, S 2 1/8, W 3 1/2. What is the prevailing visibility that should be entered into the visibility field of the ASOS/AWOS?

A. 1 7/8
B. 2
C. 3
D. 2 1/8

5. Suitable night time visibility markers are:

A. Airport beacons.
B. High intensity focused lights.
C. Unfocused lights of moderate intensity.
D. Focused lights of moderate intensity.

6. With a prevailing visibility of 1/2 SM, which of the following present weather scenarios is valid?

A. +DZ FG
B. DZ FG
C. -DZ BR
D. +RA BR

7. You are in backup manual obs mode and observe surface based blowing dust surrounding the station, reducing the prevailing visibility to 3/4 SM. 2/8 of the sky is obscured. The correct remarks are:

A. BLDU FEW000
B. DU FEW000.
C. BLDS FEW000
D. +DS FEW000.

8. You go outside at obs time and a thunderstorm that was west of the station is now overhead. In one minutes time you observe about 3 lightning in cloud flashes overhead. Moderate rain is occurring along with an occasional hail stone falling. The average hail stone is 1/8" in diameter with a few stones as large as 1/4". Which of the following remarks are encoded correctly?

A. FRQ LTGIC OHD TS OHD MOV E GR 1/4.
B. FRQ LTGIC OHD TS CB OHD MOV E GR 1/8
C. OCNL LTGIC OHD TS OHD MOV E CB OHD MOV E GR 1/4.
D. OCNL LTGIC OHD TS OHD MOV E GR 1/8.

9. ASOS/AWOS has suffered a total failure. You are now in backup manual obs operations. Your last manual metar showed the prevailing visibility was 3/4 SM in BR. The air traffic controller calls down with a tower visibility now at 1/2 SM. What are now the correct prevailing visibility / present weather / remarks?

A. 1/2 SM / FG / SFC VIS 3/4
B. 3/4 SM / BR / TWR VIS 1/2
C. 1/2 SM / BR / SFC VIS 3/4

10. It is the middle of a warm sunny summer afternoon. You observe an isolated CB covering less than 1/8 of the sky in an otherwise clear sky. You estimate the CB is about 30 miles east of the station and observe 6 lightning in cloud flashes in one minute. Cloud base is estimated to be 7000 feet. You are unsure of cloud movement. What are the correct sky condition and remarks?

A. CLR FRQ LTGIC DSNT E CB DSNT E
B. FEW070 FRQ LTGIC DSNT E
C. FEW070 FRQ LTGIC DSNT E CB DSNT E
D. FEW070 FRQ LTGIC DSNT E CB DSNT E MOV UNKN.

11. You are taking backup manual obs and at the hourly metar time you note that the pressure has fallen .02" in the past 15 minutes. TRUE or FALSE. You shall report PRESFR in remarks.

A. True
B. False

12. In the event of an aircraft mishap, the observer shall wait at least ___hour(s) after the mishap before initiating an archive of the ASOS/AWOS 5-minute obs and archive the data for a period of ___hour(s) before and ___hour(s) after the incident.

A. 1 1 1
B. 2 1 1
C. 1 2 2
D. 2 2 2

13. The hourly rate of fall required for moderate rain (RA) is:

A. .10"/hr
B. .15" to .30"/hr
C. .11" to .30"/hr
D. .10" to .20"/hr

14. Which of the following obstructions may be reported in present weather when the prevailing visibility is equal to or greater than 7SM?:

Select all that apply.

A. MIFG
B. BCFG
C. PRFG

15. The phrase "SHRA AT AP" can include which of the following areas:

Select all that apply.

A. The usual point of observation
B. Buffer zones around the operating areas of the airport.
C. Runways
D. Airport terminal

16. How many pressure sensors are installed in ASOS/AWOS systems at towered airport locations and where are the sensors located ?:

A. 3, DCP
B. 2, ACU
C. 1, OID
D. 3, ACU

17. Which of the following are valid ASOS/AWOS generated wind readings?:

Select all that apply.

A. 27003G14KT
B. 19008G13KT
C. 36011G15KT
D. 09004G20KT

18. ASOS/AWOS is indicating a temp/dew point of 80/40 F. At these values what would be the max allowable dew point error?:

A. 4.5 F
B. 2.0 F
C. 6.0 F
D. 5.0 F

19. The proximity qualifier for vicinity, VC, is not used with:

A. HZ
B. FG
C. BLSA
D. PO

20. Which of the following may be used as an aid in estimating wind direction?:

Select all that apply.

A. Wind cone
B. Facing into the wind in unsheltered areas
C. Observing movement of very low clouds
D. Observing the movement of smoke

Fall 2025 Refresher Training

Name: _____ Date: _____

20 questions | Original order retained

1. Match the additive data group with its description.
1. Hourly temp and dew pt
2. 6 hour max temp
3. 6 hour min temp
4. 3 hour pressure tendency
5. 24 hour max and min temp

A. 403720228
B. 51003
C. T03060211
D. 20155
E. 10261

Answer: _____

_____

2. ASOS has completely failed during a thunderstorm, causing you to revert to manual observations. Your only source for the altimeter is the tower ASI. The tower informs you that the ASI is rapidly fluctuating between 29.92 and 29.96, but estimates the altimeter as 29.94. What entry do you make on the MF1M-10C for the altimeter?

A. 2994
B. 29.94
C. 2992
D. NO ENTRY
E. 2996
F. 29.96

3. On the MF1M-10C form, a temperature of -0.1C and a dew pt of -0.5C would be entered as_____and the transmitted data would appear as_____.

A. -00 | -01 M00 / M01
B. -00 | -00 M00 / M00
C. M00 | M01 -01 / -01
D. 00 | 00 00 / 00
E. M00 | M00 M00 / M00

4. ASOS has been reporting a sky condition of OVC015 with a temp of 32F. Precipitation in the form of frozen raindrops has begun to fall and is restricting the prevailing visibility to 5SM. Very light snow has also begun to fall. ASOS begins reporting UP in the present weather field. What changes would you make, if any, in the present weather field?

A. Leave UP in the present weather field, as ASOS cannot determine the precip type.
B. -PLSN
C. -SNPL
D. PLSN

5. The current one minute pressure obtained from the 3 ASOS pressure sensors are: 29.159, 29.153, 29.152. Which pressure value will ASOS use to compute an altimeter setting?

A. All three are used.
B. 29.159
C. 29.153
D. 29.152

6. Which of the following precipitation type's intensity can be determined by both rate of fall and prevailing visibility?

A. Rain
B. Snow
C. Drizzle
D. Ice pellets
E. Freezing rain.

7. Match the following present weather examples with all the prevailing visibilities that may apply.
1. ____ 3SM
2. ____ 1/4SM
3. ____ 1/2SM

A. SN FG
B. PL
C. BR
D. +SN FG
E. DS
F. -SN FG

Answer: _____

_____

8. Place the following manual remarks in their correct numerical order of entry:

A. FU BKN020
B. VIRGA
C. SNINCR 1/2
D. (ACFT MISHAP)
E. TCU OHD
F. VIS NE 2 1/2

Answer: _____

_____

9. You observe the following sector visibilities: N-E 5; E-S 3, S-W 6, W-N 4. Present weather consists of precipitation falling in the form of frozen raindrops. Determine the prevailing visibility and present weather.

A. 3SM -FZRA
B. 3SM PL
C. 4SM -PL
D. 4SM PL
E. 5SM PL
F. 5SM -FZRA

10. The prevailing visibility requirement for PL is:

A. 7SM or less
B. More than 7SM
C. 3-6SM
D. Less than 3SM.

11. Which of the following manual remarks are correct?

Select all that apply.

A. TS CB OHD MOV S
B. VIRGA SW
C. SHRA E-SE
D. TS S MOVG E
E. OCNL LTGIC TS S MOV E
F. 4/0001
G. TCU W MOV E

12. The sky is totally obscured by falling snow. Vertical visibility is 200 feet. Prevailing visibility 1/4SM. A thunderstorm is in progress. What would the correct entries in the ASOS SKY field and PRESENT WEATHER field?

A. OVC002CB +TSSN
B. VV002 +TSSN
C. VV002CB +TSSN
D. OVC002 +TSSN

13. For the purpose of depth measurements, the term "snow" shall include:

A. ICE PELLETS
B. GLAZE
C. HAIL
D. SHEET ICE
E. ALL OF THE ABOVE

14. Which of the following will ASOS not allow in the present weather field?

Select all that apply.

A. BCFG
B. MIFG
C. PRFG
D. VCFG
E. DU
F. PO

15. You are in manual backup mode. It is raining such that individual drops can't clearly be identified. Spray is observed just above hard surfaces. What would you enter for present weather?

A. RA
B. -RA
C. +RA

16. Which of the following meet the definition of a variable ceiling height?

Select all that apply.

A. CIG 007V009
B. CIG 011V014
C. CIG 021V025
D. CIG 015V019

17. TRUE or FALSE: The ASOS computer-generated voice messages broadcast the magnetic wind direction instead of true direction.

A. True
B. False

18. A strong late fall cold front, accompanied by thunderstorms and strong winds, is moving across the airport. The winds are causing considerable damage. Both the ASOS and FAA wind systems have been put out of service. What would you estimate the wind speed to be?

A. 40 knots
B. 45 knots
C. 55 knots
D. 70 knots

19. You are observing 2/8ths of the sky covered by TCU overhead and 1/8th coverage of CB 15 miles north thru east of the station. The TCU bases are at 4000 feet and the CB bases are at 3000 feet. All clouds are moving to the east. Encode the correct sky condition and remarks.

A. FEW030CB SCT040TCU / CB DSNT N-E MOV E TCU OHD.
B. FEW030 SCT040TCU / CB DSNT N-E MOV E TCU OHD
C. FEW030 SCT040TCU / CB DSNT N-E MOV E TCU OHD MOV E
D. FEW030 SCT040TCU / TCU OHD CB DSNT N-E MOV E

20. ASOS is currently displaying a wind of 270/12. Which of the following sudden increases in wind speed would always cause ASOS to generate a squall special?

A. 270/20G30
B. 270/28G35
C. 270/22G30
D. 270/16G32

Winter 2026 Refresher Training

Name: _____ Date: _____

20 questions | Original order retained

1. The intensity of freezing drizzle is determined according to the:

a. the temp/dew point spread
b. degree that it affects visibility
c. rate of accumulation
d. size of the drops

2. A SPECI shall be transmitted whenever freezing precipitation or ice pellets _____, _____, or _____.

Answer: _____

_____

3. Any form of precipitation that freezes on impact and forms a glaze on the ground or exposed surfaces is called:

a. snow grains
b. snow pellets
c. ice pellets
d. freezing precipitation

4. Match the precipitation type with it's definition:
1. _____ snow grains
2. _____ ice pellets
3. _____ snow pellets

A. White, opaque grains of ice.
B. Very small, white, opaque grains of ice.
C. Transparent or translucent pellets of ice

Answer: _____

_____

5. ASOS has failed and you are taking manual obs. Using a backup psychrometer, you determine the dry bulb temp to be -0.5C. The temp shall be transmitted as:

a. M01
b. 00
c. -01
d. M00

6. Which of the following does NOT require a SPECI ?

a. -SN changes to +SN
b. Small hail ends
c. -FZDZ ends
d. a squall is observed.
e. Snow grains begin or end.

7. If ASOS detects both light freezing rain and light snow, what will it report for present weather?

a. -FZDZ
b. -SN
c. UP
d. -FZDZSN

8. The visibility criteria for moderate ice pellets (PL) is:

a. 3-6SM
b. 1-3SM
c. less than1SM

9. Match the present weather with the correct prevailing visibility.

1. _____ 1/2SM
2. _____ 1/4SM
3. _____ 3/4SM
4. _____ 1SM

a. SN
b. +SN FG
c. SN FG
d. FZDZ

Answer: _____

_____

10. With a present weather scenario of SN FG, which of the following prevailing visibility values would be invalid:

a. 1/2SM
b. 1/4SM
c. 5/8SM
d. 0SM

11. If ASOS detects snow at temps above 38F, then the PI sensor is set to:

a. -SN
b. UP
c. -RA
d. NP

12. Along with a visibility and sky cover requirement, ASOS reports blowing snow with a temp of_____F or less, and wind speeds greater than_____KTS.

a. 32F / 30KTS
b. 28F / 25KTS
c. 14F / 22KTS
d. 20F / 15KTS

13. With a prevailing visibility of 1/2SM, which of the following would be a valid present weather entry?

Select all that apply.

a. +SN
b. +SN FG
c. SN
d. -SN FG

14. The ASOS wind sensor is out of service. Using the airport wind system, the ATCT informs you the winds are averaging 25KTS over the past 2 minutes, and varying rapidly between 20 and 30KTS. This backup information would be entered via the OID as:

a. 25
b. 25G30
c. 20G30
d. 20Q30

15. TRUE or FALSE: The intensity of ice pellets may be determined by either visibility or rate of fall.

A. True
B. False

16. You are taking manual obs due to ASOS failure. Snow is occurring 3-6 miles southeast of the station. The correct present weather entry shall be:

a. SHSN
b. VCSN
c. VCSH
d. VCSHSN

17. The prevailing visibility has decreased from 1SM in BR to 1/2SM, while the temp has decreased from 1C to 0C. The correct present weather entry is:

a. FZFG
b. BR
c. FZBR
d. FG

18. At 0453Z you observe 4" of snow on the ground. At 0515Z it begins to snow. At 0553Z you measure 4.5" of snow. The required snow remarks are:

a. SNINCR 1/5 4/005
b. 4/005
c. SNINCR 1/5
d. 4/004

19. Temperatures of, -0.3C, -0.5C, and -4.5C, should be transmitted as:

a. 00 M01 M05
b. M00 M00 M04
c. 00 M01 M04
d. M00 M00 M05

20. Which of the following precipitation events requires a SPECI:

a. hail begins or ends
b. freezing rain begins, ends, or changes intensity
c. ice pellets change intensity.
d. snow intensity changes from heavy to light.
e. all of the above.

Spring 2026 Refresher Training

Name: _____ Date: _____

20 questions | Original order retained

1. The beginning of a Thunderstorm is reported when?

Select all that apply.

a. Thunder is heard.
b. Lightning observed, but local noise prevents from hearing thunder.
c. lightning is observed at a distance, but no thunder is heard.
d. both a and d

2. When lightning is detected by the ALDARS system within 5 nautical miles of the Airport Reference Point it will be reported as "TS" in the body of the report with no remark:

A. True
B. False

3. The ending of a thunderstorm is reported____minutes after the last occurrence of the event.

a. 10 minutes
b. 15 minutes
c. 5 minutes
d. 30 minutes

4. May the following types of precipitation be coded with a Thunderstorm. True or False:
RA
SN
PL
GS
GR

A. True
B. False

5. At augmented automatic stations hailstone size is coded as GR in the remarks and diameter of the largest hail stone is coded in 1/4th inch increments.

A. True
B. False

6. A thunderstorm within 5SM of the station moving northeast is reported as a TS OHD MOV NE:

A. True
B. False

7. Your shift began at 1600 and you were briefed about the previous thunderstorms 2 hours earlier that moved east. At the 1700 observation you notice CB tops to the east. How is this reported?

a. CB E
b. CB DSNT E
c. TS E
d. TCU E

8. Pea size hail is falling (less than ¼ inch) in a thunderstorm overhead: how is this reported in the remarks?

a. GR 4
b. GR ¾
c. GR less than ¼
d. GR ¼

9. Precipitation is falling from the clouds N of the station, but is not reaching the ground because of evaporation. How is this coded in the remarks.

a. VCSH N
b. VIRGA N
c. N VIRGA
d. UKN SHRA N

10. Only CB/TCU are the only two cloud type appended to the sky condition layer:

A. True
B. False

11. You relieve the day shift at 3pm. The observer briefs you that she generated a special for a funnel cloud at 255pm. You go outside and observe that the funnel cloud is now reaching the ground. What action should you take?

a. Edit the present weather to +FC, update manual remarks, and allow ASOS to transmit the SPECI.
b. Use the command GENOB - FUNNL to end the funnel cloud. After the SPECI transmits use the command GENOB - TRNDO to begin the tornado.
c. GENOB - SPECI - edit present weather by removing FC. Update remarks. Hit EXIT for immediate transmission. GENOB - SPECI - enter +FC in present weather and enter tornado remarks. Hit EXIT for immediate transmission.
d. Just ensure that manual remarks are current. No need to take a SPECI since FC is already entered in present weather.

12. A wind shift is indicated by a change in wind direction of____ degrees or more in less than ___ minutes with sustained wind speeds of 10kt or more throughout the wind shift.

a. 45/15
b. 45/10
c. 40/10
d. 90/10

13. You observe lightning overhead with three lightning flashes in the clouds/minute. How is this reported.

a. OCNL
b. FQT
c. CON
d. MAN

14. The temperature sensor on the ASOS is not reporting any temperatures. Only a NWS Technician can authorize a weather observer or anyone else to disable any of the ASOS sensors.

A. True
B. False

15. Hourly peak wind is the highest instantaneous wind speed over___kt , recorded since the last _____report.

a. 20kt/METAR
b. 25kt/METAR
c. 15kt/SPECIAL
d. 25kt/ COR

16. There are scattered showers over the area with a shower on the airport. Can you type in SHRA in the present weather prompt on the OID screen?

A. True
B. False

17. ALDARS can detect lightning strikes within 30 nm of the Airport Reference Point?

A. True
B. False

18. A scattered layer of clouds at 2500ft with Towering Cumulus overhead as part of this layer. How would this be reported.

a. SCT025
b. SCT025TCU
c. TCU025
d. SCT025

19. Can you type VCSH in the remarks section of the OID screen?

A. True
B. False

20. The tower should be notified as soon as possible when prevailing visibility at the surface decreases to less than, or increases to equal or exceed:

a. 3 miles

b. 6 miles

c. 4 miles

d. 2 miles.

Fall 2026 Refresher Training

Name: _____ Date: _____

20 questions | Original order retained

1. PEAK WIND is the highest wind speed over_ knots, recorded since the last_____report.

A. 24 / SPECI
B. 25 / SPECI
C. 24 / METAR
D. 25 / METAR

2. Typical ASOS wind sensor heights are_____or_____feet above ground.

A. 20 / 30
B. 33 / 27
C. 25 / 20
D. 35 / 25

3. On the 1 - MINUTE CURRENT SENSOR DATA SCREEN, the last 5 minutes of 1 minute temperature values are: 35 35 36 37 37. What temperature will be displayed on the 1-MINUTE SCREEN ?

A. 35
B. 36
C. 37

4. TRUE or FALSE: Snow Grains (SG) never fall as showers.

A. True
B. False

5. TRUE or FALSE: Heavy snow (+SN) shall not be reported if the prevailing surface visibility is greater than 1/4 mile and moderate snow (SN) shall not be reported if the visibility is greater than 1/2 mile.

A. True
B. False

6. Which of the following precipitation types require a SPECI for change in intensity ?

Select all that apply.

A. Freezing Rain
B. Freezing Drizzle
C. Ice pellets

7. ASOS is reporting 4 miles visibility in Haze with a temperature of 50 and a dew point of 45. Light rain begins falling. What will ASOS now display for present weather ?

A. -RA HZ
B. -RA
C. -RA BR

8. The ASOS visibility sensor sampling volume is:

A. 0.75 cubic feet
B. 1.25 cubic feet
C. 3.00 cubic feet
D. 0.50 cubic feet

9. Once the_____sensor is logged as inoperative, it can only be returned to operational status by a maintenance technician.

A. Wind
B. Dew Point.
C. Altimeter
D. Visibility

10. Blowing Snow (BLSN) is made up of snow particles raised by the wind to a height of _____ feet or more, sufficient to restrict_____visibility.

A. 9 / vertical
B. 6 / horizontal
C. 6 / vertical
D. 10 / horizontal

11. Necessary conditions for ASOS to report a totally obscured sky include a surface visibility _of____mile(s) or less and a high percentage of unknown hits at or below_____feet agl.

A. 3 / 2000
B. 1 / 1500
C. 1 / 2000
D. 2 / 1000

12. A pressure sensor whose 1 minute sensor value differs by more than_____inch from another operational sensor is automatically logged as inoperative.

A. 0.04
B. 0.02
C. 0.01
D. 0.03

13. What, if anything, will occur when the ASOS algorithm calculates a dew point (DP) that is 2□ F higher than the ambient temperature?

A. It is not possible for ASOS to calculate a DP higher than the ambient temperature.

B. The DP will be automatically adjusted to equal the ambient temperature.

C. The 1-minute DP calculated will be recorded as missing (M) and a Maintenance Check Indicator ($) will be appended to the observation.

D. The DP value will be displayed in yellow and a Maintenance Check Indicator ($) will be appended to the observation. A "Check Systems Log" warning will flash at the bottom left side of the OID screen.

14. Match the correct prevailing surface visibility with the present weather.

1. _____1/4 SM
2. _____5/8 SM
3. _____1/2 SM

A. -RA BR

B. +DZ FG

C. SN FG

D. DZ FG

Answer: _____

_____

15. You go outside to measure the snow depth at the usual measurement site for the 12Z METAR. Half of the ground is bare with the other half averaging 6 inches in depth. What is the depth that should be entered in the 4/sss group?

A. 6

B. 3

C. None - omit the 4/sss group.

16. TRUE or FALSE: For the purpose of depth measurement, the term "snow" shall include ice pellets, glaze, hail, any combination of these, and sheet ice formed directly or indirectly from precipitation.

A. True

B. False

17. Under what conditions would an observer with ASOS capability be required to revert to encoding manual observations on the form MF1M-10C?

Select all that apply.

A. ASOS OID fails during clear weather.

B. ASOS OID fails and significant weather is expected.

C. DCP to ACU communications failure and sensor data is not available.

D. Loss of primary long line communications equipment.

18. Which of the following examples can be reported as a ceiling ?

Select all that apply.

A. A broken layer of thin cirrus

B. A layer of fog that obscures 6/8s of the sky.

C. The vertical visibility into snow that obscures the entire sky.

D. A thin broken layer of smoke at 600 feet agl.

19. Freezing Fog (FZFG) is reported at air temperatures below_____C and prevailing surface visibilities less than_____SM.

A. 1 / 3/4 SM

B. -1 / 1 SM

C. 0 / 5/8 SM

20. Intermittent precipitation stops and starts at least_____within the hour preceding the observation and, if the intensity changes, it changes_____.

A. Twice / Rapidly

B. Three of more times / Gradually

C. Once / Gradually

D. Twice / Gradually