1. ATS includes () A .ATCS,APM&AS B. ATCS,FIS&Aps C. ATS,ASM& ATFM D. ATCS,FIS&AS
2. If the HQFE is 300m. the barrier's elevation is 2000m, the airdrome's elevation is 1900m, the airplane exceed the barrier () m A.200 B.300 C.400 D.500
3. When the aircraft is in distress, the squawk should be set to ()
A:A7700 B:A7600 C:A7500 D:A2200
4. Each ATC position should equip at least ()controllers to accomplish t
he task
A:1 B:2 C:3 D:4
5. There are ()flight levels between 1800m(include) and 9200m(not inc
lude)
A:20 B:23 C:24 D:28
6. In high altitude control area, () is permitted.
A:VFR B: IFR C: VFR and IFR D: none
7.When QNH is 1010.2hpa the caption set it to 1001.2Hpa, the aircraft'
s real altitude () than indicated altitude
A, greater B, less C: greater or less D: equal
8. Any holding over navigation beacon should not exceed () minutes g enerally
A:10 B:30 C:45 D:60
9. After getting license, controller should be tested () times per year A:1 B:2 C:3 D: half

10. The on position training could be classfied as () A: Facility Training, refresher taining B: Qualification Training, standard training C: Facility Training, standard training D. Facility Training, Proficiency Training, refresher training, Supplemental training Remedial training 11.Automatic record of radar data should be reserved for() days(norma I) A:10 C:15 D:30 B:20 12. In the field type 15, cruising level could be indicated by F,S,A,M, whic h means (A: F-100 feet, S-10 meters, A-100 feet, M-10 meters: B: F-10 ceters, S-100 feet, A-10 meters, M-100 feet: C: F-10 meters, S-10 meters, A-100 feet, M-100 feet: D: F-100 feet, S-100 fcet A-10 meters, M-10 meters. 13. Which is not the situation in distress phase? A: distress signal been sent B: after alerting phase 60' no contact with the aircraft C: no landing information after the running out of the fuel D:the flight capability been injured but don't have to take belly landin g the aircraft could contact 14. The flights in domestic airspace are contralled and organized by() A: CAAC B: Air force of the Chinese People's liberation amy C: ATM bureau OF CAAC

D: general staff of the Chinese People's liberation amy

15. On VPR	circle, the min	imum longitu	dinal seperation between Clas
s B aircrafts	is ()		
A:2000m	B:1500m	C:3000m	D:5000m
16. The disc	charge bill mus	st be signed b	y ()
A dispatch	er		
B: captain			
C: depatch	e and captain		1/
D: dspatch	er and caption	(or their depu	ity)
			. 7/8
17 144		4 : . 4 £ : .	
		-	equipments and the captain is n
	for night flight	t, Take off tim	e is not () minutes early than su
nrise.			
A:10 B:2	20 C:25	D:30	
18. in AFIN	telegram, the	date should b	e indicated as ().
	_	. \/X	, the latter two indicate month
			nth, the latter two inidicate day
	Z / \ \		the middle two indicate month,
	r two indicate	•	•
	/. /	•	the latter two indicate hour.
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	requency can't		
A:121.5MHZ	Z B: 243 MHZ	Z C: 123.45N	MHZ D: 500KHZ

20. the flight in the vicinity of civil eirdrome whrich has been set TA and
TL, the aircraft should take()as the reference for the altitude
A: QNH B:QFE C: real height: D: QNE
21. Which of following RQS is right ().
A: (RQS-CCA1501/A3031-ZBAA0120-ZSSS:
B: (RQS-CCA1501/A3031-ZBAA)
C: (RQP-0401-CCA1501/A3031-ZBAA-ZSSS)
D: (ROS-CCA1501/A3031-ZBAA-ZSSS)
22. Which of the following phase that can adjust speed?
A: holding B: Final approach C: Flight above 8900m D. Except A B & C
23. FPL should be released at ().
A: 45 minutes before ETD:
B: 30 minutes before estimated off-block time:
C: 45 minutes before cstimated off- block time, not earlier than 90 min
utes before estimated off-block time:
D: 120 minutes before estimated off-block time, not earlier than 24 hou
rs before estimated off-block time:
24. One aircrant flight with IFR and the other with IFR, The ATC should f
•
ollow ()
A: IFR B: VFR C: any one D. both
25. Controller sbould not take any charge()hours after drinking any liq
uor or in the effect of any narcosis medication
A:4 B:6 C:8 D:10

n aircrafts at	night			
A: captains	B: ates	C: both	D: any on	e
27. When QI A:1000	NH below()bp B:1013	a(includes), T C:1024	A should be red D:900	duced for300m
28. About ze	ero altitude, wh	ich is correct	()	
	ome hasn't			火
	rodrome has		->//	
	altitude acrod	rome has		>
			10/0	
20 If D747 b	-f D727 +b			- :t
	etore B/3/, the	y snould mai	ntain radar wak	e interval () wh
en landing A: 6km	B:8km:	C: 10km	D: 12km.	
A. OKIII	D.OKIII.	C. TOKIII	D. IZKIII.	
	411	YXX		
	the follow is n	ot the Flight	information reg	gion(FIR) in china
() 1: Hangkan	D. Po	iiina	C: Taipai	D:Changaing
A: Hongkon	g B: Be	ıjırıg	C: Taipei	D:Chongqing
~	1//			
31. The high	altitude contro		ve()(not include	e) meters
A:3000	B:4000	C,6000	D:8900	

26.When VFR are executed, ()are responsible for the separation betwee

32, which of the following description of the special airspace is not right ()

A: Prohibited airspace, Restricted airspace and Dangerous airspace ar e designated according to the purpose of certain department of the go vernment:

B:Any flight should be clear of its position only by its equipment on board in case of eater the special airspace;

C:ATS units siould surveillance the flight in case of the enter of special a irspace;

D: the information that the ATS wnits should release to the aircraft about the special airspace includes:1, name of the airspace 2. scope of the airspace: 3, active time: 4, other information.

33. Which is not grave accident ()

A: cause death, number of dead people below 39

B: cause death, number of dead people above 39

C: aircraft missing. there are less than 39 persons on board

D: the aircraft been seriously damaged or landed in a place where coul d not ship out the aircraft

34. Any controller should take nurturant training and on position training, and pass the tests, get licences. Nurturant training is executed by()

A:the foreign ATC units

B: training center of ATM bureau

C: the colleges have the qualification:

D: technical division of ATC center

35. Radar controller should not work more than()continuous hour s, a slot of () minutes must be guaranteed between each two workin g phase

A:2,60 B:2,30 C:1,60 D:1,30

36. The responsibility of approach control office is ()
A: Provide the control of a route
B: Provide the control of an airport field:
C: Provision of APP control service to the departing and arriving fhight
s in the relevant TMA:
D: Provide the control of a local circuit:
37. When VFR are executed, two aircralls light at the same altitude, inte
cross direction, they should avoid as: The aircraft which see the other A
C from the left side of the cabin should()the airccaft which see the ot
er A/C from the right side of the cabin should ()
A: descend, climb B: climb, climb
C: descend, descend D: climb, descend
38. When VFR are executed, () are responsible for the MSA abov
e the obstacle:
A: captains B: atcs C:both. D: any one
39. which of the following is all right about the type of flight
A. N translation, W non-scheduled, C overtime, K training.
B. L charter, Z supplementary, U business, H cargo
C. N non-scheduled, B special flight, M military
D. E-Bmilitary, M emergency, Q general light, S non-scheduled.
40 minimum cafaty altitude of IED aproute at the plain area. should
40. minimum safety altitude of IFR enroute, at the plain area, should be above the highest obstacle (). ((reserved the senter line of the
d be above the highest obstacle () Km around the center line of the
oute or line ()meters

A. 15300 B. 25,300 C. 25,400 D. 5,300.

填空题

1.ATM includes
2. The four stage of the flight service centre's operation are,
3.An airdrome's elevation is 600m,And its initial approach altitude is 1800m,
The TA is,TL is,
4.According to navigate and drive methods,
flight can be divided into,
5. The priority landing procedure is: Maintain altitude and Level flight to landing
g,Expedite descend to, then,
,Expedite descend to IAF altitude.
6.the airdrome's protected Area uses,as the center.,radius
Km,The minimum safety altitude of IFR in airdrome is: flight over hills or mour
tains above the highest elevation in the protected area m,Flight over p
ain above m.
7.The classification of flight accidents includes,
8.The principle of ATFM are,
9.Generally, ATIS should be updated once for each minutes.
10. The marks for the identification of aircraft includes,
11 sindus are also ation is 1200 as abote also also ation 1000 as a singular and it
11.airdrome elevation is 1200m, obstacle elevation 1899m, an aircraft report it
s height is 921m,The real height from the aircraft to the obstacle is m

12.Landing clearance has been issued, _____ minutes after the estimated land ing time Without any contact with the plane, the controller should take it as a n alert phase.

三. Answer the following questions (12p)

1.Describe the truising nlight level arrarigement in our couatry nowadays? (5p)

2. One day,a airport QFE=963hpa, QNH=1000hpa,QFE2400m; B-3626 re ported: HQNH 2700m;B-3480 reported: 2800m. On standard. What is the vertical seperation between them?draw the vertical location of the airc rafts.(QNE=1013hpa, lhpa=8m)(7p)

CNS3552, A320M, from Shenyang to Chengdu, date 8 July. 2013, EOBT:1440, Beijing, time, ETA: 1810, instrument flight,SSR code A 31 56, SSR mode AC equipped with DME,HF,ADF,GPSINS,CPDLS,FANS,I/A, VHF,RTF mode 2,satellite communications,ATC wireless telephone,PB N permission,RVSM permission with 8.33khz,VHF and SSR transponde r with mode S,aircraft identify equipment atmosphere pressure altimete r send equipment ,ADS capability enhanced servelillance capability,wit h 1090MHZ, ADS-B,transmit capability with FANS 1/A ADS-C,Alternate a ir drome,Chongqing,Guiyang,Cruising speed 0.81m ,and cruising level 1 1400m route DHN A575LR G212 SUBUL ,W29 WFX other information: VI P,PBN capabiliti is A1B2B3B4B5D1L1,aircraft based augmentation syste ms(GBAS),Aircraft Identification is B-2631,they are at Beijing FIR boundary 1hour and 12 minutes select call is KMAL (fly over Beijing Taiyuan Xi' an ACC)

1. Edit the FPL (include head) (10 points

2. Before the filght, aircraft change to another one, change information:

Type is H777, identification is B-5128,edit CHG (3p)

3. Edit the coordination procedures between Chengdu Xi' an(ESE, CDN, ACP), hand over point SUBUL, time: Beijing time 1740: chengdu requ est delay 5 minutes to accept the High, Xi' an accept the restriction (i

nclude head) (5p).

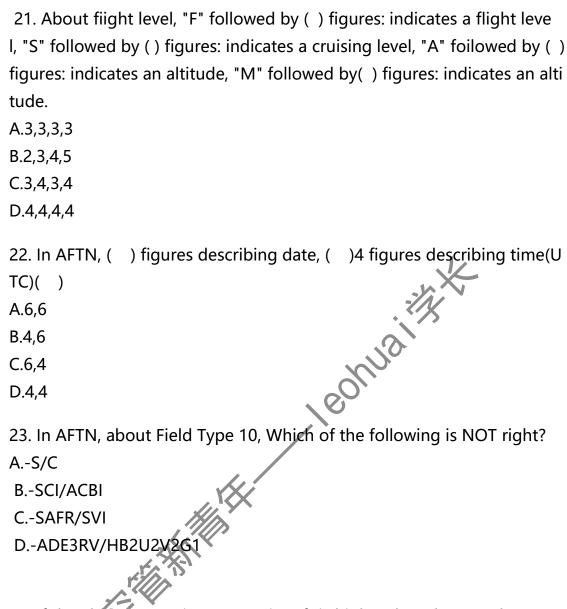
第一题

- 1.Air Traffic Management consists of ()
- A. Air traffic service, air traffic flow mmanagement, airspace manageme nt;
- B. Air traffic service, air trafiic flow management, alerting service;
- C. Air traffic control service, fighit information service, alerting service;
- D. Air traffic service, flight information service, airspace management.
- 2. According to the ICAO criteria, in which class of airspace, VFRClights i s prohibited?()
- A. class A
- B. class B
- C. class C
- D. class D
- 3. Which of the following ATS units is mainly responsible for receiving, h andling and sending flight plan?
- A. Tower Control office
- B. Approach Control Office
- C. Area Control Office
- D. Air Traffic Service Reporting Office.
- 4. When the radio communication failed the squawk should be set to? A.A7700 B.A7600 C. A7560 D.A2200
- 5. Which of the following is the correct description on Flight Information Region (FIR)?
- A. ATC service is provided in FIR.
- B. There are 11 FIRs in mainland of China.
- C. The scope of territory airspace of a country is thre same as FIRs in th at country.
- D. The scope of FIRs in one country is the same as Search Rescue Regio us in that country.

s managed by china.()
A. CAAC
B. Operations Management Center of Regional &TMB
C. Government of each province
D. Maritime Search and Rescue Center
7. In China, when two aireraft are converging and there is a danger of collision, The aircraft which sees the other aircraft from the right side of the cabin should.
A. descend B. climb C. turn righit D. turn left
8. Which of the following ATS units is NOT a terminal ATFM unit? A. Tower Control Office B. Approach Control Office C. Area Control Office DOperations Managemeit Center of RegionalATME
9. Air traffic controllers shall not be. on duty within ()hours after drinking alcohol () A.4 B.6 C.8 D.10 10. According categorization based on wake turbulence,a350,b737 and Y7 can be categorized as () respectively. A. M. M, L B.H, M; L C.M.M.M D. H, M, M
11. In aerodrome terminal airspace, when an atrrival night at transition
ftitude climbs to transition level, the pilots should switch the altimeter setting
A. from QNE to QFE B. from QNH to ONE
C. from ONE to QNH D. fromi QFE to ONE

12. Which of	the following is	s NOT a measu	re used in tactical ATFM pha
se?			
A. Ground D	elay Program		
B. Groun.d S	top		
C. Managem	nent of Flight So	chedule	
D. Airborne	Holding		
13. Which of	the following st	atements abo	ut ATIS is correct?
	mbered by seq		. 1/
B. Informatio	n on multiple a	erodromes ca	n be broadcast on one ATIS fr
equency			.3/%
	e set on ILS fre		
	ly useful for de		
-		. V	while the speed that issu
ed by control	ler to be adjust		
A. DAS, GS	B. GS,IAS	C. CAS,IAS	D.IAS, GS
		4 /	
	not the situatio		hase?
•	signal been ser		
	rtainty phase 30		
~		after the fand	ing time, no Tanding and n
o communica	<i>'</i>	. 6	
D. the captain	n decide to bel	ly fand or it's p	oossible
16 .After getti	ing the ficence,	controler sho	uld be tested each ()
years.			
A.I	B.2	C.3	D.half

17. The reception and processing of FPL by ARO belongs to the p f $(\ \)$	hase o
A. Prelimninary Preparation for Flight	
B. Direct Preparation for Elight	
C. Implementation of Flight	
D. De-briefing of Flight	
18. The correct statement about the painting of nationality mark	and re
gistration mark regulated by CAAC is ()	
A. the upper surface of the left wing structure, and the lower sur	face, of
the right wing tructure,B2272;	
B. the lower surface of the left wing structure, and the upper surf	face of
the right wing structure, B2272;	
C. the upper surface of the left wing structure and the lower surf	ace of
the right wing structure, B-2272;	
D. the lower surface of the left wing structure, and the upper sur	face of
the right wing structure, B-2272.	
19. Which of the following equations is NOT correct in statistics	of fligh
t punctuality?	
A. Flight Punctuality Rate = Number of Punctual Flights/ Number of Punctual Flights	of Plan
B. Depature Taxi Time= Actual Take-off Time -Actual Off-Block Ti	me
C. Arrival Taxi Time= Actual Landing Time -Actual In-Block Time	
D. Delivery Punctuality Rate=Number of Punctual Delivered Fligh	ts/ Nu
mber of Delivered Flights	
20. Each ATC positiou should equip at least () controllers to accomplish the task.	
A.1 B.2 C.3 D.4	



24. If the altimeter setting on an aircraft is higher than the actual QNH, t hen the altitude of the aircraft is () it should be.

A.higher than

- B. lower than
- C. equal to
- D. not of above all

- 25. when aireraft () it can be categorized as "Medium".
- A. Aircraft's MTOW>=136,000kg
- B. 7, Aircraft's MTOW < 136,000 kg
- C. Aircraft's MTOW < 7,000kg
- D. 7,000kg <= Aireraft's MTOW < 136,000 kg.

判断题

- 1. Code 7500 alerts ATC that an aircraft has been hijacked.
- 2. In AFTN telegram, CPL, message is used to request flight plan
- 3.The radio communication recordings in ATS units should be kept for at least30days.
- 4. The longitudinal separation minimum in VFR is 2Km if aircraft 's IAS is not less than 250Km/h.
- 5. In Chinanormally the maximum number of aircraft controlled at the s ame time in one sector in area control center under radar control is 12.
- 6. If " PANPAN " is sent by the pilots, it means the aircraft is in distres s phase.
- 7. Aircraft proximity occurs if either horizontal separation or vertical separation is less than the regulated separation minimium.
- 8. If the pilot proposes to change from instrument flight to visual fligh t, the controller must be allowed to ensure that the control efficiency is i ncreased.
- 9. The pilot may change from instrument flight to visual flight at his ow n discretion, depending on the weather conditions.

10. Non-Radar control separation is usualy much larger than radar control separation.

填全题 Assume QNE = 1013fipa, pressure elapse rate = off/fipa.
1.The radar data in ATS units should be kept forat least.
2. In radar control, the area controller can control no more than
aircrafts at the same time.
3.ATC is prompted by the and its development is closel
y associated with, navigation andtechnology.
4. Air traffic control service is mainly provided byapprach con
troland air traffic service reporting office.
5. An airdrome 's elevation is 600m, and its initial approach altitude is 1
800m, the TA is m, TL is m.
6. The phase of emergency can be divided into
alert phase,
7. The emergency descent when depressurization occurs is: turn
degrees to the right from the aircraft flying direction, track out K
m,turn left to parallel the original air route, then descend to
m or en-route MSA
8. APP office in charge of the control of
in its control scope.
9. Control transfer includes &
10. The caption adjust aircraft's speed, the benchmark is
,andKm/h or. its multiple.
11. Aircraft proximity incident with danger index not less than
_ is categorized as air transport serious incident.
12.121.5MHz and MHz communication equipment are requir
ed by ATCU and onboard aircrafts for search and rescue,
KHz communication equipment for maritime search and resc
ue.
13. An aerodrome's elevation Is 500m and a nearby obstacle's elevation
is 1800m. An aircraft reports its height is 1200m (using QFE), so the hei
ght from the aircraft to the obstacle ism.

14. In a terminal near an acrodrome, when QNH is below 979hpa (inclu
sive,Transition Altitude should bebym.
15. There are westbound cruising levels in RVSM airspace in
China fron 6000m(inclusive) to 9200m(inclusive).
16.Minimum safety altitude of IFR in the vicinity of acrodromes in mou
ntainous area, shorld "be above the highest obstacle within a radius of
Km for at leastm
17.There areFlight Information Region in china.
IV, Answering questions shortly. (10 points)
1. Why absolute height is not widely applied in ATC? (5 points)

2. Please describe the basic quality for ATC. (5 points)

- , Calculation. (7 points)
- 1. An aerodrome's TA is 4200m, TL is 4800m, the elevation is 1500m, Q FE=817hpa.Please calculate the thickness of Transition Layer (Assume Q NE=1013hpa, pressure lapse rate=8.5m/hpa)



VI, AFTN Applications (18 points)

Read following FPL, answering the questions.

FF ZGGGZXZX ZBYNZXZX ZHCCZXZX ZHHHZXZX ZGKLZXZX ZBTJZPZX ZBBBZGZ X 291315 ZBAAZPZX

(FPL-CCA1301/A4321-IS)

- -B744/H-S/C
- -ZBAA0200
- -N0480S1010 CD SJW WXI2285036m082s0980a46136n115
- -7GGG0240 ZGSZ.
- -DOF/180215 REG/B2442 EET/ZHCC0100 WXLOLO1 SEL/DFCH)

I. Describe the light plan according to the FIL above. excluding head, 8 points)

2. Delayed to 0535 due passenger delay, send DLA. (excluding head, 5 points)

3. Airborne time is (550, send DEP. (excluding head, 5 points)