

# Huawei ICT Skill Competition Middle East 2017

## Huawei ICT Skill Competition-Middle East Preparation Kits

2017

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This is used for preparation kits of the Huawei ICT Skill competition  
-Middle East 2017

# Huawei ICT Skill Competition-Middle East Preparation Kits

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# Huawei ICT Skill Competition-Middle East Preparation Kits

## 1. Huawei ICT Skill Competition Middle East 2017 Introduction

### 1.1. Introduction

Huawei is a leading global information and Communication Technology (ICT) solution provider, Huawei Certification System is well –recognized and is becoming a standard for ICT talent cultivation. In order to promote ICT industry technology certification, develop ICT industry talent and a strong ecosystem, Huawei would like to invite colleges and universities in the Middle East to participate the “Huawei ICT Skill Competition Middle East 2017”.

### 1.2. Contents & Arrangement

Schedule	Venue	Test	Duration(Hour)	Remark
Preliminary	Academies	Written	1.5	Huawei ICT Academy Online platform
National Final	TBD	Lab	2.5	Lab test on simulator
International Final	Huawei HQ (Shenzhen)	Lab +Interview	6	Lab :80% Interview:20%

#### Arrangement

Technology	Preliminary	National Final	International Final
IP	Routing	40%	40 %
	Switching	30%	25 %
	Network Security	10%	15 %
	Wireless-Lan	10%	10 %
IT	Cloud Computing	10%	10 %

#### Contents

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### 1.3. Geographic Areas

NO		Country	City	International Final
1		United Arab Emirates	Dubai /Abu Dhabi	2 Groups
2		Saudi Arabia	Riyadh/ Jeddah / Dammam	2 Groups
3		Bahrain	Manama	1 Group
4		Qatar	Doha	1 Group
5		Kuwait	Kuwait city	1 Group
6		Oman	Muscat	1 Group
7		Pakistan	Lahore / Islamabad	2 Groups
8		Jordan	Amman	1 Group
9		Lebanon	Beirut	1 Group
10		Iraq	Baghdad	1 Group

*Note:*

- 1. At the international final stage, the candidates would attend it by groups.*
- 2. Each group consists of three students and a tutor, the tutor is recommended by the students themselves.*

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## 1.4. International Final Awards

Remark: 3 Candidates/Group

First Prize 1 Group	Second Prize 2 Groups	Third Prize 3 Groups
 <p>\$ 30,000</p> <p>Certificate + Trophy</p> <p>Matebook + EXAM VOUCHER</p>	 <p>Certificate + Trophy</p> <p>P10 + EXAM VOUCHER</p>	 <p>Certificate + Trophy</p> <p>Honor8 + EXAM VOUCHER</p>
Excellence Prize 7 Groups	Excellent Tutor 6 Tutors	Best Academy 5 Academies
 <p>Certificate + Trophy</p> <p>Waist Band + EXAM VOUCHER</p>	 <p>Certificate + Trophy</p> <p>Mate9 + EXAM VOUCHER</p>	 <p>Certificate + Trophy</p>

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## 2. Learning resources

After online registration, you may access [www.huaweiacad.com](http://www.huaweiacad.com) for training materials and tools to practice.

Step1: click the event, and then click the Huawei ICT skill competition Middle East 2017

The screenshot shows the Huawei website interface. At the top left is the Huawei logo. To its right are language options '中文 / English' and a user profile 'david.guolang@huawei.com | Logout'. Below this is a navigation bar with links: 'Home', 'HAINA', 'Course Introduction', 'Events' (highlighted with a red box), and 'Online Class'. Below the navigation bar is a section titled 'Huawei ICT Skill Competition' with a red box around the text 'Huawei ICT Skill Competition Middle East 2017'. Below this is a large banner image showing a city skyline with various buildings and a tower.

Step2: click the competition space

Dear examinees,

The preliminary contest of Middle East Huawei ICT Skill Competition will be conducted on Huawei's e-learning platform.

In order to facilitate you to get familiar with the test system and check the equipment situation, we recommend that you enter the system in advance and do simulation test.

Examination site: <http://e-learning.huawei.com/exam/>

Simulation testing time: 2017/10/12, 09:00 AM - 2017/10/15, 21:00 PM

Contest account:

- ◆ You will receive an e-mail from [HWSSO@huawei.com](mailto:HWSSO@huawei.com). In this E-mail, you will get your account and your password. Please note to check! (We will use your email address registered in the ICT Academy Platform to send you account and password)
- ◆ If you have already registered in [www.huawei.com](http://www.huawei.com), please log in with your own account and password.

A horizontal row of five red buttons with white text. From left to right: 'Preliminary Exam', 'Registered', 'Operation Manual', 'Competition Space' (highlighted with a red box), and 'Free voucher'.

Enter "Huawei ICT Skill Competition Middle East 2017 " competition space, access to the following learning resources:

A. Courses outline

B. e-Learning

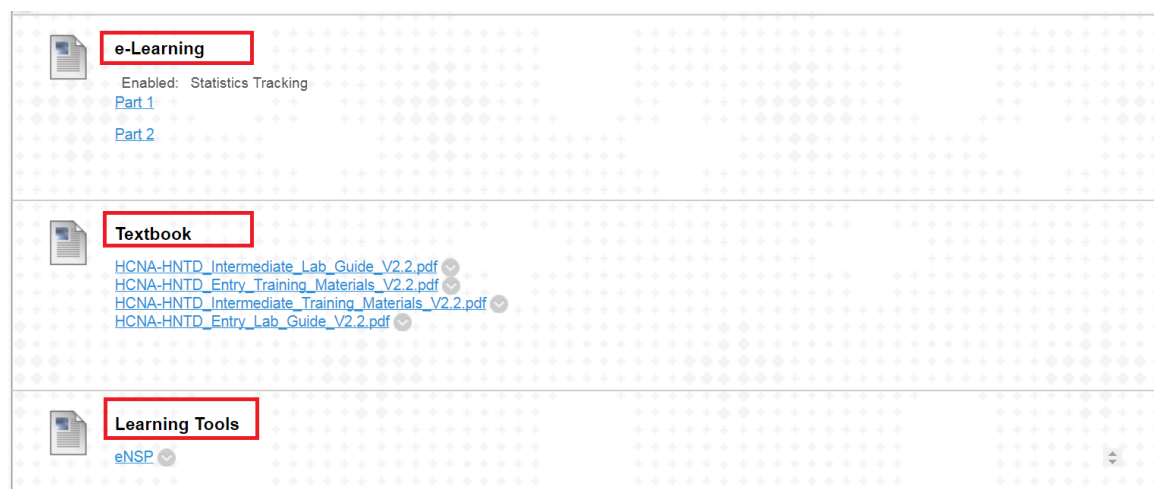
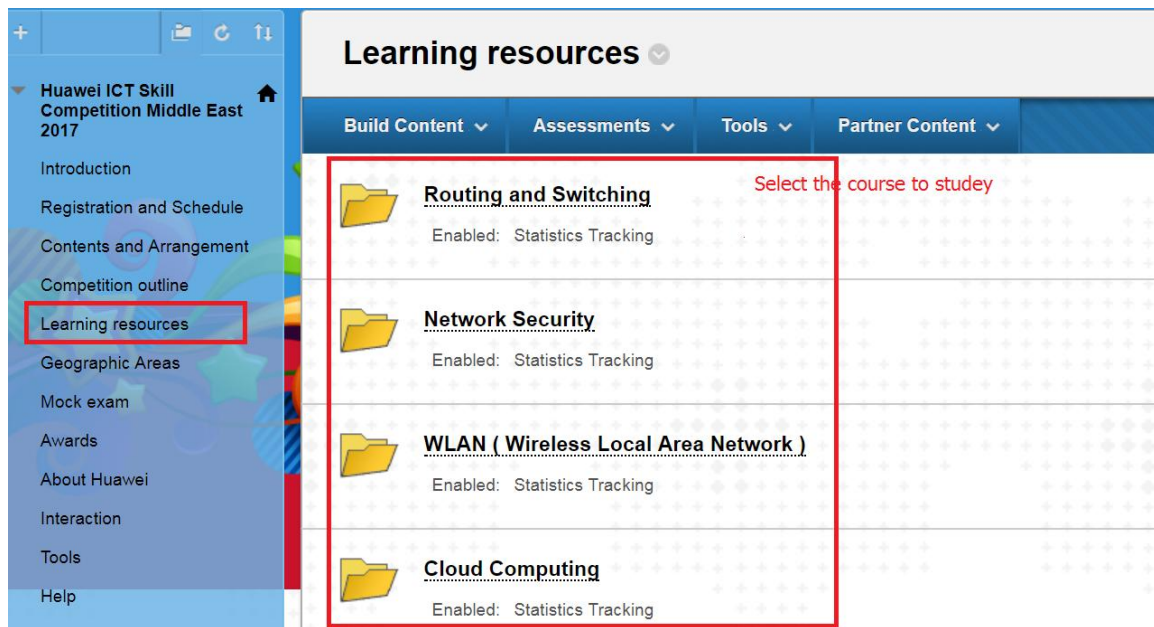
C. Textbook

D. Learning tools

E. Simulation exercise



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# Huawei ICT Skill Competition-Middle East Preparation Kits

- Contents and Arrangement
- Competition outline
- Learning resources
- Geographic Areas
- Mock exam**
- Awards
- About Huawei
- Interaction
- Tools
- Help

- COURSE MANAGEMENT
- Control Panel
- Content Collection
- Course Tools
- Evaluation
- Grade Center
- Users and Groups
- Customization

During the period of ICT skills competition, we have an unprecedented promotion: the free HCNA certification exam voucher program. Huawei ICT academy skills competition applicants will receive a free 'Exam Voucher' if you meet ALL criteria: 4 or more hours of online learning and 60+ points for the online test. All entrants must complete this activity by 31th, Dec, 2017.

This promotion program is to spread advanced ICT technologies and information to university students, and cultivate ICT talents with practical skills.



**Mock exam of Routing and Switching**



**Mock exam of Security**



**Mock exam of WLAN**



**Mock exam of cloud computing**



## 3. Mock Exam Samples

### 3.1. Routing & Switching

1. (Single Answer) An administrator has implemented the following configuration in VRP.

```
< huawei>system-view  
[huawei]user-interface maximum-vty 7
```

What effect will the above command have on user access?

- A. A maximum of 7 users are permitted to log into the device via the asynchronous serial port
- B. A maximum of 7 users are permitted to access the device using telnet.
- C. A maximum of 7 users are permitted to access the device via the console port.
- D. Users interfacing with VRP have a maximum of 7 password retries before user access is locked.

2. (Multiple Choice) An administrator has been requested to assign hosts to the 172.16.4.32/29 network. Which of the following IP addresses may be assigned by the administrator to these hosts?

- A. 172.16.4.32 255.255.255.240
- B. 172.16.4.33 255.255.255.248
- C. 172.16.4.34 255.255.255.240
- D. 172.16.4.35 255.255.255.248

3. (Multiple Choice) In order to determine the reason for a change in the spanning tree topology, the following port information was extracted by an administrator from one of the switches.

```
----[Port1(GigabitEthernet0/0/1)][FORWARDING]----  
Port Protocol      :Enabled  
Port Role          :Designated Port  
Port Priority      :128  
Port Cost(Dot1T ) :Config=100 / Active=100  
Designated Bridge/Port :32768.4c1f-cc4f-26df / 128.1  
Port Edged        :Config=default / Active=disabled  
Point-to-point    :Config=auto / Active=true  
Transit Limit     :147 packets/hello-time  
Protection Type   :None  
Port STP Mode     :STP
```

From the given output, what is the administrator able to determine?

- A. The port cost of the port interface has been assigned automatically by the 802.1t path cost standard.
- B. The bridge priority is using the default priority.
- C. The port cost of the port interface has been manually assigned using the *stp path cost*

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command.

D. The bridge priority has been changed from the default priority of 32767.

4. (Single Answer) The following routes have been configured within the IP routing table of a router.

Destination/Mask	Proto	Pre	Cost	Flags	NextHop	Interface
172.16.1.0/24	OSPF	10	200	D	192.168.1.2	Gigabit Ethernet0/0/0
172.16.0.0/16	Static	5	0	RD	192.168.1.2	Gigabit Ethernet0/0/0
172.16.1.0/24	Static	80	0	RD	192.168.1.2	Gigabit Ethernet0/0/0

Which of the routes will be used in order to forward traffic to the destination host address of 172.16.1.1?

- A. Static route 172.16.0.0/16 containing a preference of 5 and a cost of 0
- B. Static route 172.16.1.0/24 containing a preference of 80 and a cost of 0
- C. OSPF route 172.16.1.0/24 containing a preference of 10 and a cost of 200.
- D. The two static routes will be active at the same time based on the cost value of 0.

5. (Single Answer) Which of the following multicast addresses is used by RIPv2 for listening for RIP messages?

- A. 224.0.0.5
- B. 224.0.0.6
- C. 224.0.0.9
- D. 255.255.255.255

6. (Single Answer) Three AR2200 routers (RTA, RTB and RTC) have been configured as part of OSPF Area 0 via interface Gigabit Ethernet 0/0/0 in all instances. The default broadcast network type has been maintained. In addition, the three routers have been assigned the following parameters:

*For RTA: A Router ID of 1.1.1.1 and an interface Gigabit Ethernet 0/0/0 dr-priority of 0 are used.*

*For RTB: A Router ID of 2.2.2.2 and an interface Gigabit Ethernet 0/0/0 dr-priority of 255 are used.*

*For RTC: A Router ID of 3.3.3.3 and the default interface Gigabit Ethernet 0/0/0 dr-priority are used.*

For the given scenario, which of the following statements are true?

- A. Router RTA will adopt the role of DR and RTB will adopt the role of BDR.
- B. Router RTB will adopt the role of DR and RTC will adopt the role of BDR.
- C. Router RTB will adopt the role of DR and RTA will adopt the role of BDR.
- D. Router RTC will adopt the role of DR and RTB will adopt the role of BDR

7. (Multiple Choice) The following commands are implemented while configuring an Eth-trunk interface in VRP.

```
[huawei]interface eth-trunk 1
[huawei-Eth-Trunk1]undo portswitch
```

What is the effect of configuring the undo portswitch command on the Eth-trunk interface?

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- A. The undo portswitch command will allow the L3 switch to perform layer 2 link aggregation.
- B. The undo portswitch command will allow the L3 switch to perform layer 3 link aggregation.
- C. The undo portswitch command will allow the router to perform layer 2 link aggregation.
- D. The undo portswitch command will allow the router to perform layer 3 link aggregation.

8. (Single Answer) The following VLAN command has been configured on the switch.

```
[huawei]vlan batch 2 to 9 10
```

With regards to the configured command, which of the following statements is correct?

- A. VLANs 2, 3, 4, 5, 6, 7, 8, 9 and 10 will be created on the switch.
- B. VLANs 2, 9 and 10 will be created on the switch.
- C. The switch will generate an error stating that the format of the command is incorrect.
- D. VLANs from 2 through to 910 will be created on the switch.

9. (Multiple Choice) Which of the following statements regarding access ports behavior are FALSE?

- A. Untagged frames are tagged with the default VLAN ID of the port on which the frame was received.
- B. Untagged frames are tagged with the default VLAN ID of the port on which the frame is to be transmitted
- C. Tagged frames are accepted if the frame VLAN ID matches the default VLAN ID of the port on which the frame is received.
- D. Tagged frames are discarded if the frame VLAN ID matches the default VLAN ID of the port on which the frame is received.

10. (Single Answer) Where a fixed registration mode is configured in GVRP, which VLANs will be registered as attributes?

- A. Static and Dynamic VLANs.
- B. Static VLANs only
- C. Dynamic VLANs only.
- D. Only VLAN 1 will be supported.

11. (Multiple Choice) What features does RIPv2 provide?

- A. Extension of subnet mask(VLSM).
- B. Large scale network.
- C. Plain text authentication.
- D. MD5 encrypted text authentication.

12. (Multiple Choice) Upon attempting to establish a PPPoE connection, the administrator experienced difficulties. As such, the following information was captured on the PPPoE client by the administrator.

```
< Huawei>display pppoe-client session summary
```

```
PPPoE Client Session:
```

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ID	Bundle	Dialer	Intf	Client-MAC	Server-MAC	State
0	1	1	GE0/0/0	00e0fc2c4704	000000000000	PADI

From the given display output, what is the administrator able to determine regarding the state of the PPPoE connection?

- A. The PPPoE client is not active.
- B. A PPPoE Active Discovery Initiation packet has been sent by the client.
- C. A PPPoE Active Discovery Request packet has been sent by the client.
- D. The PPPoE server is currently not responding.

13. (Multiple Choice) IP traffic originating from the internal network host of 192.168.1.1/24 destined for the public server with the address of 160.131.20.1. The administrator has configured the following command

```
[RTA]interface GigabitEthernet 0/0/0
[RTA-GigabitEthernet0/0/0]nat outbound 2000
```

From the given command output, what can be determined regarding the implemented NAT configuration?

- A. Internal host address 192.168.1.1 will be translated to the public IP address associated with interface GigabitEthernet 0/0/0.
- B. Internal host address 192.168.1.1 will be translated to a public IP address from an assigned address pool.
- C. The administrator has configured Internal Server based NAT.
- D. The administrator has configured easyIP based NAT.

14. (Multiple Choice) Which of the following represent parameters supported by Advanced Access Control Lists?

- A. Source & Destination IP addresses
- B. Source & Destination Port numbers
- C. Source & Destination MAC addresses
- D. The ICMP protocol type.

15. (Single Answer) As part of the AAA scheme for user access to the network, the administrator configures the following commands:

```
[Huawei-aaa]authorization-scheme A2
[Huawei-aaa-author-A2]authorization-mode if-authenticated hwtacacs local
```

What effect will be applied to users associated with this scheme?

- A. Authenticated users will be authorized using hwtacacs authorization, if this fails local authorization will be used.
- B. Authenticated users will be authorized using local authorization, if this fails hwtacacs authorization will be used.
- C. Users will be authenticated using hwtacacs authentication, and if authenticated successfully, will be authorized using local authorization.
- D. Users will be authenticated using local authentication, and if authenticated

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successfully, will be authorized using hwtacacs authorization.

16. (Multiple Choice) Which of the following represent features provided by the Authentication Header?

- A. Data Origin Authentication
- B. Data Confidentiality
- C. Data Integrity Checking
- D. Anti-Replay Service

17. (Multiple Choice) OSPF routers are classified into four types. Which of the following statements about interior routers (IRs) are true?

- A. The ports on an IR belong to a same area.
- B. An IR is located in the center of a physical area.
- C. Only one port on an IR connects to a backbone area.
- D. If all the ports on an IR belong to area 0, this IR functions as a backbone router.

18. (Multiple Choice) Which two message protocol data units are supported as of SNMPv2c?

- A. SetRequest
- B. GetBulkRequest
- C. GetNextRequest
- D. InformRequest

19. (Multiple Choice) For the IPv6 address

2000:002A:0000:0000:0000:000A:020C:023D, which of the following represent valid condensed forms.

- A. 2000:2A::A:20C:23D
- B. 2000:2A:0:0:0:A:20C:23D
- C. 2000:2A::A:2C:23D
- D. 2000:2A:0:0:0:A:2C:23D

20. (Multiple Choice) In STP, the bridge ID consists of two parts. They are ( ) and ( ).

- A. Switch priority
- B. Switch Port ID
- C. Switch MAC address
- D. Switch IP address

21. (Single Answer) IGP is the protocol which is used in ( ).

- A. An area
- B. A LAN
- C. An Autonomous System
- D. Within the range of classful address

22. (Multiple Choice) Which of the following statements regarding OSPF area are incorrect?

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- A. Without manual configuration, an OSPF area is a backbone area with area ID 0 by default.
- B. OSPF supports area division.
- C. Every OSPF area is identified by a 32-bit Area ID number.
- D. Area ID must be assigned by IANA and we can not simply assign it.

23. (Single Answer) Each router calculates the shortest path tree based on the LSDB with itself as a ( ) node.

- A. Root
- B. leaf
- C. Specified root
- D. Backup

24. (Multiple Choice) Which of the following statements regarding RIP are correct?

- A. RIP is an IGP.
- B. RIP is an EGP.
- C. RIP is a distance vector routing protocol.
- D. RIP is a link-state routing protocol.

25. (Single Answer) How many bytes does the Maximum Receive Unit (MRU) of PPP consist of by default?

- A. 1024
- B. 1500
- C. 1518
- D. 8096

26. (Single Answer) What is the decimal value for binary 11001011?

- A. 171
- B. 193
- C. 203
- D. 207

27. (Single Answer) 172.16.10.32/24 is ( )

- A. Network address
- B. Host address
- C. Multicast address
- D. Broadcast address



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28. (Single Answer) The PDU (Protocol Data Unit) that resides at physical layer is called ( )

- A. Frame
- B. Packet
- C. Segment
- D. Binary bit flow

29. (Multiple Choice) In a ( ) network, DRs and BDRs are used to prevent the problem with route convergence at a low speed.

- A. Point-to-point
- B. Broadcast
- C. NBMA
- D. Point-to-multipoint

30. (Single Answer) The default mask of class B address is ( ).

- A. 255.0.0.0
- B. 255.255.0.0
- C. 255.255.255.0
- D. 255.225.255.255

31. (Single Answer) Which of the following commands is used to disable automatic route aggregation for RIP?

- A. Undo rip
- B. Summary
- C. Undo summary
- D. Undo network 10.0.0.0

32. (Single Answer) The common address in an IP address is globally unique. Which of the following addresses can be used repeated in a LAN?

- A. Host address
- B. Private address
- C. Network address
- D. Subnet address

33. (Single Answer) Which of the following descriptions about function of VRRP is true?

- A. VRRP improves the reliability of the default gateway in the network

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B. VRRP makes the routing protocols converge faster

C. VRRP is mainly used for load balancing

D. VRRP provides the same default gateway for different network segments, thus simplifies gateway configuration of PCs in the network

34. (True or False) Root bridges provide root ports and designated ports. ( )

35. (Single Answer) How many root bridges does the STP protocol select from all the network bridges when calculating a spanning tree?

A. 1

B. 2

C. 3

D. 4

36. (Single Answer) Which port number does Telnet uses for protocol transmission?

A. 23

B. 24

C. 8080

D. 48

37. (Single Answer) What is the main function of DNS?

A. Domain Name Resolution

B. Remote Access

C. File Transfer

D. Mail Transfer

38. (Single Answer) In OSI reference model, which layer resides at the bottom?

A. Data link layer

B. Application layer

C. Physical layer

D. Network layer

39. (Single Answer) In STP, what is the length of bridge ID?

A. 8 bits

B. 32 bits

C. 48 bits

D. 64 bits

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40. (Single Answer) A router with OSPF enabled calculates the shortest route to the destination by using ( ) algorithm.

- A. OSPF
- B. SPF
- C. SRC
- D. OPF

41. (Single Answer) After a change occurs in a network topology, which of the following routes does not change automatically but changes only after the network administrator updates the change?

- A. RIP route
- B. OSPF route
- C. BGP route
- D. Static route

42. (Single Answer) What is the function of ARP?

- A. Map port number to IP address
- B. Map MAC address to IP address
- C. Broadcast IP address
- D. Map IP address to Mac address

43. (Single Answer) Which layer is the PPP protocol located in the TCP/IP protocol stack?

- A. Physical Layer
- B. Data Link Layer
- C. Network Layer
- D. Transport Layer

44. (Single Answer) Which of the following is the metric of OSPF?

- A. Number of hops
- B. COST
- C. Priority
- D. LSA

45. (Single Answer) On Huawei switches running STP, the default value of forward delay is ( ) seconds.

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- A. 10
- B. 15
- C. 20
- D. 30

46. (Multiple Choice) Which of the following are the interface states of STP?

- A. Disabled
- B. Blocking
- C. Shut down
- D. Learning
- E. Forwarding

47. (Single Answer) Which class does IP address 190.233.27.13 belong to?

- A. A
- B. B
- C. C
- D. D

48. (Single Answer) OSPF runs over the IP protocol and the IP protocol No. used by OSPF is ( ).

- A. 89
- B. 80
- C. 512
- D. 2328

49. (Single Answer) Which of the following is the broadcast MAC address?

- A. FF-FF-FF-FF
- B. FF-FF-FF-FF-FF-FF
- C. 00-00-00-00-00-00
- D. 00-00-00-FF-FF-FF

50. (Multiple Choice) Which of the following protocols can be used for file transfer?

- A. FTP
- B. TFTP
- C. TELNET
- D. ICMP

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ANSWERS: 1.B, 2.BD, 3.ABC, 4.C, 5.C, 6.B, 7.BD, 8.A, 9.BD, 10.B, 11.ACD, 12.BD, 13.AD, 14.ABD, 15.A, 16.ACD, 17.AD, 18.BD, 19.AB, 20.AC, 21.C, 22.AD, 23.A, 24.AC, 25.B, 26.C, 27.B, 28.D, 29.BC, 30.B, 31.C, 32.B, 33.A, 34.F, 35.A, 36.A, 37.A, 38.C, 39.D, 40.B, 41.D, 42.D, 43.B, 44.B, 45.B, 46.ABDE, 47.B, 48.A, 49.B, 50.AB

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## 3.2. Security

1. The source socket includes source IP address, source port, and destination IP address. ( )  
True            False
  
2. The Protocol field of IP packet headers identifies the upper-layer protocol. If the field value is 6, the upper-layer protocol is TCP. If the field value is 17, the upper-layer protocol is UDP. ( )  
True            False
  
3. IN SYN flood attacks, an attacker sends a large number of SYN packets to the server but does not acknowledge the SYN-ACK packets. Therefore, the server maintains a lot of half-open TCP connections, exhausting the server resources. ( )  
True            False
  
4. Stateful inspection firewalls create and maintain session tables to keep track of TCP and UDP sessions and use security policies to control which sessions can be created. Only the packets associated with the created sessions are forwarded. ( )  
True            False
  
5. In network security, attacks can undermine network resources and make them invalid or unavailable. Such attacks are targeted at ( ).  
A. Availability      B. Confidentiality      C. Integrity      D. Authenticity
  
6. Which of the following items is not included in a server map entry of the USG series? ( )  
A. Destination IP address  
B. Destination port  
C. Protocol  
D. Source IP address
  
7. Which of the following zones can be deleted? ( )  
A. Security Zone  
B. Trust Zone  
C. Untrust Zone  
D. DMZ Zone
  
8. Which of the following statements about buffer overflow attacks are correct? ( ) (Select 3 Answers)  
A. Buffer overflow attacks use software system memory operation defects with high operating privileges to run attack code.  
B. Operating system vulnerabilities and architecture will not cause buffer overflow attacks.  
C. The buffer overflow attack is one of the most common methods for attacking software systems.  
D. The buffer overflow attack is a type of application-layer attack.
  
9. Stateful inspection firewalls forward subsequent packets (subsequent packets) mainly based on \_\_\_\_\_?  
A. Route table



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- B. MAC address table
- C. Session table
- D. FIB table

10 Which of the following Layer-3 VPN is more secure? ( )

- A. GRE
- B. PPTP
- C. IPSec
- D. L2F

11 Which of the following statements about ARP spoofing attacks is incorrect? ( )

- A. The ARP mechanism checks only normal packet interactions.
- B. ARP spoofing attacks are implemented only through ARP replies.
- C. When a host sends a normal ARP request, an attacker responds before the server responds, causing the host to establish an incorrect mapping between the IP and MAC addresses.
- D. ARP static binding can be used to defend against ARP spoofing attacks, and it is used mainly on small-scale networks.

12 ACL 2009 is ( )

- A. A basic ACL
- B. An advanced ACL
- C. A MAC-based ACL
- D. A time-based ACL

13 Which of the following IP address ranges is the one defined in the rule permit ip source 192.168.11.32 0.0.0.31 command? ( )

- A. 192.168.11.0-192.168.11.255
- B. 192.168.11.32-192.168.11.63
- C. 192.168.11.31-192.168.11.64
- D. 192.168.11.32-192.168.11.64

14. Which of the following algorithms uses the same key for encryption and decryption? ( )

- A. DES
- B. RSA (1024)
- C. MD5
- D. SHA-1

15. In GRE VPN, which of the following protocols is an encapsulation protocol? ( )

- A. GRE
- B. IPX
- C. IP
- D. NetBEUI

16. Which of the following modes is an IKE mode in the second phase? ( )

- A. Main mode
- B. Aggressive mode

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- C. Quick mode
- D. Passive mode

17. Which one of the following protocols is a multi-channel protocol? ( )

- A. FTP
- B. Telnet
- C. HTTP
- D. SMTP

18. What features does the NAT technology have? ( )

- A. NAT hides private IP addresses and improves network security.
- B. NAT does not support NAT for private IP addresses.
- C. The IP address translation is transparent for both private and public network users. Users cannot percept the translation process.
- D. If bidirectional NAT is configured, external users can access the resources on the private network without any restriction.

19. What does AAA mean? ( ) (Select 3 Answers )

- A. Authentication
- B. Authorization
- C. Accounting
- D. Audit

20. Which of the following algorithms are encryption algorithms? ( ) (Select 2 Answers )

- A. DES
- B. 3DES
- C. SHA-1
- D. MD5

21. Which of following statements about IDS are correct? ( ) (Select 3 Answers )

- A. The IDS dynamically collects a large volume of key information and analyzes and identifies the status of the entire system.
- B. The IDS can block detected policy breaches and attacks.
- C. The IDS system is comprised of all software and hardware systems for intrusion detection.
- D. The IDS system can function with firewalls and switches to better control external access.

22. Which of the following user access and authentication methods are supported by the Policy Center system? ( ) (Select 3 Answers )

- A. Web, identify authentication
- B. WebAgent, identify authentication and part of security authentication
- C. Agent, identify authentication and security authentication
- D. Network access without authentication

23. To enable employees on a business trip to access the intranet file server, which of the following SSL VPN functions is the optimal solution? ( )

- A. Web proxy
- B. File sharing

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- C. Port forwarding
- D. Network extension

24. Which of the following protocols are used by SSL? ( ) (Select 3 Answers)

- A. Handshake protocol
- B. Record protocol
- C. Alert protocol
- D. Heartbeat protocol

25. Which of the following headers contains a VLAN tag? ( )

- A. Ethernet Frame
- B. IP header
- C. TCP header
- D. UDP header

Answers:

1.F 2.T 3.T 4.T 5.A 6.D 7.A 8.ACD 9.C 10.C 11.B 12.A 13.B 14.A  
15.A 16.C 17.A 18.ABC 19.ABC 20.AB 21.ACD 22.ABC 23.B 24.ABC 25.A

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### 3.3. WLAN

- 1.(single)When was wireless network first used? ( )
  - A. WWI
  - B. WWII
  - C. Later 20th century
  - D. After 2000
  
- 2.( single)Which one of the following is the national WLAN security standard of China? ( )
  - A. WiFi
  - B. WiMAX
  - C. WLAN
  - D. WAPI
  
- 3.( multiple)Which of the following standards support the 2.4 GHz band? ( )
  - A. 802.11a
  - B. 802.11b
  - C. 802.11g
  - D. 802.11n
  
- 4.( single)Which of the following port is used for control tunnel of CAPWAP? ( ).
  - A. TCP: 5246
  - B. TCP: 5247
  - C. UDP: 5246
  - D. UDP: 5247
  
- 5.(single)How many channels exist in the 2.4 GHz band?( )
  - A. 14
  - B. 13
  - C. 11
  - D. 3
  
- 6.( multiple)Which of the following standards support the 5 GHz band? ( )
  - A. 802.11n
  - B. 802.11a
  - C. 802.11b
  - D. 802.11g
  
- 7.( single)Each Huawei AP can be configured with only one SSID.( )
  - A: True
  - B: False
  
- 8.(single)An STA roams between different VLANs. Which is the roaming type? ( )
  - A. Seamless AP roaming
  - B. Layer 2 roaming

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- C. Layer 3 roaming
- D. Layer 4 roaming

9.( single)Which of the following is used by a STA to connect to a WLAN? ( )

- A. SSID
- B. BSA
- C. ESA
- D. IBSS

10.( multiple)What is the basic modules of centralized architecture of WLAN? ( )

- A. STA
- B. Fit AP
- C. Fat AP
- D. AC

11.( single)How many APs can an ACU (SPU) maximum manage? ( )

- A. 128
- B. 256
- C. 512
- D. 1024

12.( multiple)Which of the following statements about routine maintenance for WLAN devices? ( )

- A. Adhere to maintenance regulations and check network implementation regulations.
- B. Actively respond to emergencies, collect valid information, and locate the issues.
- C. Handle common issues, summarize methods, and export documents as guidance for customers.
- D. Pay attention to the network running status, carry out periodic preventive inspection, and detect network risks in a timely manner.

13.( single)Huawei WDS is only support point to point network topology. ( )

- A. True
- B. False

14.( multiple)What are the three types of 802.11 frames? ( ).

- A. Data frame
- B. Control frame
- C. Service frame
- D. Management frame

15.( single)The 802.11b standard is based on OFDM (Orthogonal Frequency Division Multiplexing).( )

- A. True
- B. False

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16.( multiple)In 802.11 WLAN, which of the following are included in the CSMA/CA mechanism? ( )

- A. Carrier sense
- B. Multiple Access
- C. Collision Detection
- D. Collision Avoidance

17.( multiple)Which of the following frequencies belong to 802.11n frequency band? ( )

- A. 2.4-2.4835GHz
- B. 5.15-5.25GHz
- C. 5.25-5.35GHz
- D. 5.728-5.825GHz

18.( multiple)What're the two standards of POE? ( )

- A. IEEE 802.3ad
- B. IEEE 802.3af
- C. IEEE 802.3as
- D. IEEE 802.3at

19.(single)Which of the following rates are supported by 802.11g? ( )

- A. 1,2,5.5,11&6,9,12,18,24,30,36,48,54 Mbps
- B. 6,9,12,18,24,36,48,54 Mbps
- C. 1,2,5.5,11&6,9,12,18,24,36,48,54 Mbps
- D. 6,9,12,18,24,30,36,48,54 Mbps

20.( single)Which characteristics should an antenna have for outdoor long distance point-to-point transmission? ( )

- A. High gain, small lobe width
- B. High gain, large lobe width
- C. Omnidirectional
- D. Low gain, large lobe width

Answer: 1. B 2. D 3. BCD 4. C 5. A 6. AB 7. B 8. C 9. A 10. ABD 11. D 12. ABCD 13. B 14. ABD 15. B 16. ABD 17. ABCD 18. BD 19. C 20. A



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## 3.4. Cloud Computing

- 1.(Single Answer) An user rents VMs from a cloud service provider for daily use and returns them when traveling. Which of the following key characteristics of cloud computing does this reflect?
  - A. On-demand self-service
  - B. Location-independent resource pool
  - C. Pay per use
  - D. Elasticity
  
- 2.(Multiple Answer) Which of the following are cloud computing deployment modes?
  - A. Public cloud
  - B. Private cloud
  - C. E-Government Cloud
  - D. Hybrid cloud
  
- 3.(Multiple Answer) Which of the following aspects reflect that the virtualization technology of cloud computing improves the resource usage?
  - A. VM resource adjustment
  - B. Memory overcommitment
  - C. Improving server usage
  - D. Automatic application deployment
  
- 4.(Single Answer) HyperDP is a backup management software of Huawei FusionSphere. Which level of backup is it used for?
  - A. Storage level
  - B. Host level
  - C. VM level
  - D. OS level
  
- 5.(Single Answer) Each IT administrator in an enterprise manages 1500 devices and the fault response is quick. Which of the following devices is most likely used?
  - A. Physical server
  - B. Virtual server
  - C. Virtual desktop PC
  - D. Physical PC
  
- 6.(T or F) When FusionAccess is deployed in branches, users in the branches cannot connect to desktop cloud systems if networks between the branches and the headquarters are interrupted.
  
- 7.(Multiple Answer) Huawei provides end-to-end cloud computing solutions covering hardware and software. Which of the following hardware components is optional in the Huawei cloud computing solutions?
  - A. Server
  - B. Load balancer

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- C. Firewall
- D. TCs

8.(T or F) When deploying Huawei desktop cloud, users must use TCs to access the desktop cloud.

9.(T or F) VRM is the core management component of FusionCompute. It implements IT service orchestration, provisioning, and automatic management, as well as cascading management.

10.(Multiple Answer) Which of the following functions are based on Huawei Virtual Image Management System (VIMS)?

- A. Thin provisioning
- B. VM snapshot
- C. Storage migration
- D. Linked cloning

11.(Multiple Answer) Administrators in the FusionManager system can be granted the ServiceAdmin and OperationAdmin roles. Which of the following descriptions of the two roles is CORRECT?

- A. The OperationAdmin role focuses on service operations.
- B. The ServiceAdmin role focuses on resource pool construction, management and maintenance.
- C. The ServiceAdmin role focuses on service operations.
- D. The OperationAdmin role focuses on resource pool construction, management and maintenance.

12.(Single Answer) Which of the following functions does the FusionAccess WI provide?

- A. It provides a web login page for users.
- B. It is used to balance web access loads.
- C. It is a desktop access protocol gateway that isolates internal and external networks and encrypts transmission.
- D. It exchanges information with the HDA in the VM and collects information about the VM operating status and access status reported by the HDA.

13.(Multiple Answer) What are the two factors in FusionAccess USB key authentication?

- A. USB key hardware
- B. Domain account
- C. User fingerprint
- D. PIN code

14.(Single Answer) In the Huawei FusionSphere solution, if HA needs to be triggered to migrate VMs to other servers in the event of a server failure, which of the following conditions is not mandatory?

- A. The hosts must be in the same cluster.
- B. HA has been enabled for the cluster accommodating the host.
- C. The hosts are connected with the same shared data store.

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D. VMs that require the HA function use the same network IP address segment.

15.(Single Answer) FusionManager can be installed in many ways. When FusionManager is deployed in a VMware virtualization environment, which of the following installation mode is recommended?

- A. FusionManager installation using an ISO image.
- B. FusionManager installation using a template.
- C. Automatic PME installation.
- D. FusionManager installation using either the ISO image or the template.

Answers:

/ 1 C / 2 ABD / 3 ABC / 4 C / 5 C / 6 F / 7 BCD / 8 F / 9 F /  
10 ABCD / 11 CD / 12 A / 13 AD / 14 D / 15 A