

KINGDOM OF BAHRAIN
MINISTRY OF EDUCATION
INTERNAL EXAMS SECTION

امتحان الدور الثاني لتخصص صيانة الحاسوب للعام الدراسي (2023/2024م)

المستوى الثالث - التعليم الفني والمهني - المسار الصناعي

COURSE CODE: 805 حاس

تخصص صيانة الحاسوب

TIME: 90 minutes

TOTAL MARKS IN WORDS

.....
.....
.....

40

TOTALED BY:

SIGNATURE:

CHECKED BY:

SIGNATURE:

Question No.	Max. Mark	Student's Score	Marked By	Signature
1	20			
2	10			
3	5			
4	5			
Total	40			

رقم اللجنة: () أسماء الملاحظين: 1- 2-	مملكة البحرين وزارة التربية والتعليم قسم الامتحانات الداخلية المستوى الثالث / المسار الصناعي امتحان الدور الثاني للعام الدراسي 2023/2024م	بطاقة الطالب	الرقم السري
رقم الطالب (بالإنجليزي):	مرسلة / معهد: رمز المقرر: 805 حاس اسم المقرر: صيانة الحاسوب اسم الطالب:		
تمت مراجعة الامتحان ووجد أن عدد أوراقها كاملة والطباعة واضحة. توقيع الطالب:			

Course Name: الصيانة الحاسوب

Level: Year 3

Course Code: حاس 805

Time: 90 Minutes

تعليمات هامة:

1. تأكد من عدد أوراق الأسئلة (7).
2. أكتب اسمك والرقم الأكاديمي على ورقة الغلاف فقط بالقلم الحبر الجاف.
3. لا تكتب أي بيانات شخصية على ورقة الأسئلة.
4. استخدم القلم الحبر الجاف الأزرق أو الأسود فقط.
5. اقرأ أسئلة الامتحان بعناية قبل البدء بالإجابة.
6. أجب على جميع الأسئلة في نفس ورقة الامتحان.

Part 1: Multiple Choice

Answer all questions. Circle the letter of the correct answer in this sheet.

1	Static routing provides some advantages over dynamic routing. In the following statements, which is not an advantage of static routing?	
a	Static routing is less secure than dynamic routing protocols	
b	Static routes use less bandwidth than dynamic routing protocols	
c	Static routes require more CPU than dynamic routes	
d	Static routes can be more complex to implement in small network topology	
2	Which of the following routing protocol is known as the Cisco proprietary routing protocol that is often describe as a hybrid routing protocol?	
a	Static	
b	RIP	
c	OSPF	
d	EIGRP	

3	Which of the following prompt tells that a Router is in privileged exec mode?	
a	Router>	
b	Router#	
c	Router(config)#	
d	Router(config-if)#	
4	Which command shows the current configuration of a router?	
a	show ip route	
b	show interface	
c	show version	
d	show running-config	
5	Which global configuration command configures an IPv4 static default route using the next-hop address 10.0.0.1?	
a	Router(config)# ip route 0.0.0.0/0 10.0.0.1	
b	Router(config)# ip route 0.0.0.0 10.0.0.1	
c	Router(config)# route 0.0.0.0 0.0.0.0 10.0.0.1	
d	Router(config)# ip route 0.0.0.0 0.0.0.0 10.0.0.1	
6	When you use the RIP protocol in a router, which of the following command syntax is correct?	
a	<u>R1(config)#router rip</u> <u>R1(config-router)#network 192.168.1.0</u> <u>R1(config-router)#network 192.168.2.0</u>	
b	R1(config)#router rip R1(config-router)#network 255.255.255.0 R1(config-router)#network 255.255.255.0	
c	R1(config)#router rip R1(config-router)#network s0/0/0 R1(config-router)#network s0/0/0	
d	R1(config)#router rip R1(config-router)#network class 0.0.0.0 R1(config-router)#network class 0.0.0.0	

7

Default routes are used to route packets with destinations that do not match any of the other routes in the routing table. A default route is actually a special static route that uses this format: ip route 0.0.0.0 0.0.0.0 [next-hop-address | outgoing interface]



FIGURE 4

Given the topology above (FIGURE 4), which from the following choices show the correct default-route configuration using the next-hop address?

- ☒ a Sterling (config)# ip route 0.0.0.0 0.0.0.0 172.16.2.2
- ☐ b Sterling (config)# ip route 0.0.0.0 0.0.0.0 172.16.2.0
- ☐ c Sterling (config)# ip route 0.0.0.0 0.0.0.0 172.16.4.1
- ☐ d Sterling (config)# ip route 0.0.0.0 0.0.0.0 172.16.4.2

8

How many bits in IPv4 address

- ☐ a 28
- ☐ b 30
- ☒ c 32
- ☐ d 128

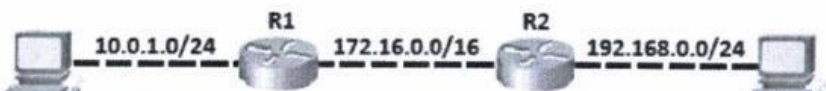
9

How many valid Host IP address in class c

- ☐ a 255
- ☒ b 254
- ☐ c 265
- ☐ d 128

10	What is the subnet mask for class B IP address	
	a	255.255.255.0
	b	255.255.255.255
	<u>c</u>	<u>255.255.0.0</u>
	d	255.0.0.0
11	The IP address 127.0.0.1 IS	
	a	Private
	b	Public
	<u>c</u>	<u>loopback</u>
	d	APIPA
12	Which is the following is public IP address	
	a	192.168.0.15
	b	10.0.0.2
	c	172.16.1.22
	<u>d</u>	<u>64.16.12.22</u>
13	What is the following is private IP address	
	<u>a</u>	<u>10.0.1.132</u>
	b	65.10.16.32
	c	172.0.0.1
	d	169.16.240.
14	What is the network portion of IP 172.16.0.0/16	
	a	N.H.H.H
	b	N.nnnhhh.H.H
	c	N.N.N.H
	<u>d</u>	<u>N.N.H.H</u>

15	What is the wild card of this subnet mask 255.255.255.252	
	a	0.0.0.252
	b	0.0.0.64
	c	0.0.0.3
	d	0.0.0.2
16	Which from the following devices is used to communicate between different subnet	
	a	Router
	b	Hub
	c	bridge
	d	switch
17	Which of the following prompt tells that a router is in interface configuration mode?	
	a	Router(config)#
	b	Router#
	c	Router>
	d	Router(config-if)#
18	Which of the command below should you use to be able to configure the ip address 192.168.3.3/24 in router R1 into interface s0/0/1?	
	a	R1(config)#Interface s0/1/0 R1(config-if)#ip address 192.168.3.3 255.255.255.0
	b	R1(config)#Interface s0/0/1 R1(config-if)#ip address 192.168.3.3 255.255.255.0
	c	R1(config)#Interface s0/0/1 R1(config-if)#ip address 192.168.3.3 255.255.0.0
	d	R1(config)#Interface s0/0/1 R1(config-if)#ip address 192.168.3.3 255.0.0.0
19	Which of the following command below should you use to configure the console password?	
	a	line vty 0 5
	b	enable console
	c	line console 0
	d	console password

20	Given the topology below (FIGURE 7), which series of commands correctly configure dynamic routing on a single area network using OSPF? 
a	<pre> R1 (config)# router OSPF 1 R1 (config-router)# network 10.0.1.0 0.0.0.255 area 0 R1 (config-router)# network 172.16.0.0 0.0.255.255 area 0 R2 (config)# router OSPF 1 R2 (config-router)# network 192.168.0.0 0.0.0.255 area 0 R2 (config-router)# network 172.16.0.0 0.0.255.255 area 0 </pre>
b	<pre> R1 (config)# router OSPF 1 R1 (config-router)# network 10.0.1.0 0.0.0.255 area 0 R1 (config-router)# network 172.16.0.0 0.0.255.255 area 0 R2 (config)# router OSPF 1 R2 (config-router)# network 192.168.0.0 0.0.0.255 area 1 R2 (config-router)# network 172.16.0.0 0.0.255.255 area 1 </pre>
c	<pre> R1 (config)# router OSPF 1 R1 (config-router)# network 10.0.1.0 0.0.0.255 area 0 R1 (config-router)# network 172.16.0.0 0.0.255.255 area 0 R2 (config)# router OSPF 1 R2 (config-router)# network 192.168.0.0 0.0.0.255 area 1 R2 (config-router)# network 172.16.0.0 0.0.255.255 area 1 </pre>
d	<pre> R1 (config)# router OSPF 1 R1 (config-router)# network 10.0.1.0 0.255.255.255 area 0 R1 (config-router)# network 172.16.0.0 255.255.0.0 area 0 R2 (config)# router OSPF 1 R2 (config-router)# network 192.168.0.0 0.0.0.255 area 0 R2 (config-router)# network 172.16.0.0 0.0.255.255 area 0 </pre>

Part1: Short Answers

Q 1) Static routing provides some advantages over dynamic routing. Write one advantages of **static** routing

-----use less cpu cycle-----

Q 2) Which part of the router maintains instructions for power-on self-test (POST) diagnostics?

-----ROM-----

Q 3) Which part of the router stores routing tables?

-----NVRAM-----

Q 4) Which part of the router holds the operating system image (IOS)?

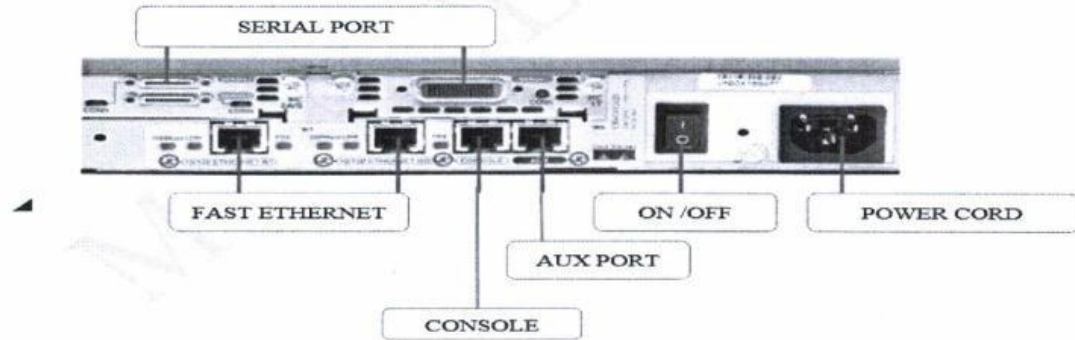
-----FLASH-----

Q 5) dynamic routing provides some advantages over static routing. Write one advantages of **Dynamic** routing

-----USE in large network-----

Part 3:

The figure below shows the back side of router. Label the interface names

**Part 4:**

Convert the ip address to binary

Decimal	Binary
209.165.201.22	11010001.10100101.11001001.00010110
172.16.18.19	10101100.00010000.00010010.00010011
10.86.252.171	00001010.01010110.11111110.10101011
255.255.224.122	11111111.11111111.11100000.01111010
255.255.128.0	11111111.11111111.10000000.00000000

End of Exam