

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson  
BTEC Level 3  
Certificate**

Centre Number

--	--	--	--	--	--	--

Learner Registration Number

--	--	--	--	--	--	--	--	--	--

**Sample assessment material for first assessment  
March 2019**

Time: 35 minutes

Paper Reference **XXXXX/XX**

## Networking Architecture

**You do not need any other materials.**

Total Marks

THE LIVE VERSION OF THIS PAPER WILL CONTAIN A TOTAL OF 30 QUESTIONS

THE SAMPLE ASSESSMENT MATERIALS WILL CONTAIN A TOTAL OF 13 QUESTIONS

S63547A

©2018 Pearson Education Ltd.

1/



S 6 3 5 4 7 A 0 1 0 7

Turn over ►



Pearson

**Answer ALL questions.**

**Some questions must be answered with a cross in a box ☒. If you change your mind about an answer, put a line through the box ☒ and then mark your new answer with a cross ☒.**

- 1 Which of these permanent storage devices uses a ROM chip? (1)

Select **one** option.

- A Magnetic hard drive
- B Solid state drive
- C Firmware
- D Memory stick

- 2 Which of these is a function of the kernel within an operating system? (1)

Select **one** option.

- A Managing networking
- B Provide user applications
- C Managing processes
- D Provide a user interface

- 3 Which class does the address 130.1.1.1 belong to? (1)

Select **one** option.

- A Class A
- B Class B
- C Class C
- D Class D

- 4 Convert the decimal value 240 to binary. (1)

Select **one** option.

- A 11000000
- B 11100000
- C 11110000
- D 11111000

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



5 What is the correct subnet mask for a 202.168.10.10/26 address range?

(1)

Select **one** option.

- A 255.255.255.192
- B 255.255.225.0
- C 255.255.10.192
- D 255.255.0.0

6 What is the maximum segment length for 1000BaseT cabling?

(1)

Select **one** option.

- A 50m
- B 100m
- C 200m
- D 500m

7 What is the purpose of a wireless router?

(1)

Select **one** option.

- A To reduce the risk of file corruption
- B To increase internet connection speed
- C To send data packets to correct addresses
- D To encrypt email communications

8 Which type of cable should an OTDR be used to test?

(1)

Select **one** option.

- A Cat 5
- B Fibre optic
- C Coaxial
- D Twisted pair



9 What is the primary function of a server in a network?

(1)

Select **one** option.

- A To send packets
- B To store data
- C To prevent unauthorised access
- D To connect to the internet

10 What is the purpose of Active Directory?

(1)

Select **one** option.

- A To translate domain names to IP addresses
- B To store computer and user account information
- C To provide IP addresses to systems on a network
- D To apply operating system updates on a network

11 An infrastructure technician is required to send confidential information including usernames and passwords to colleagues.

How should they protect this communication?

(1)

Select **one** option.

- A By using a coaxial cable
- B By using a loopback address
- C By using personal email
- D By using encryption

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



**12** An infrastructure technician is working on a computer that has failed to connect to the internet

How should they check if the problem is with the router?

(1)

Select **one** option.

- A** Ping the loopback address
- B** Ping the broadcast address
- C** Ping the default gateway
- D** Ping the local host

**13** Which of these describes RAID 5 ?

(1)

Select **one** option.

- A** Block level striping with dedicated parity
- B** Byte striping with dedicated parity
- C** Byte level striping with distributed parity
- D** Block striping with distributed parity

---

**TOTAL FOR QUESTION PAPER = 13 MARKS**



## Networking Architecture marking scheme

Question Number	Answer	Mark
1	C - Firmware	(1)

Question Number	Answer	Mark
2	C Managing processes	(1)

Question Number	Answer	Mark
3	D Class D	(1)

Question Number	Answer	Mark
4	C 11110000	(1)

Question Number	Answer	Mark
5	A 255.255.255.192	(1)

Question Number	Answer	Mark
6	B 100m	(1)

Question Number	Answer	Mark
7	C To send data packets to correct addresses	(1)

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



Question Number	Answer	Mark
8	B Fibre optic	(1)

Question Number	Answer	Mark
9	B To store data	(1)

Question Number	Answer	Mark
10	B To store computer and user account information	(1)

Question Number	Answer	Mark
11	D By using encryption	(1)

Question Number	Answer	Mark
12	C Ping the default gateway	(1)

Question Number	Answer	Mark
13	D Block striping with distributed parity	(1)

