UNIVERSITI KUALA LUMPUR
MALAYSIAN INSTITUTE OF INFORMATION TECHNOLOGY

FINAL **EXAMINATION**

OCT 2025 SEMESTER

COURSE CODE	IFD26203
COURSE TITLE	INDUSTRIAL REVOLUTION AND TECHNOLOGY
PROGRAMME NAME	DIPLOMA OF ENGINEERING TECHNOLOGY (COMPUTER & NETWORKING)
DATE	26 JANUARY 2026
TIME	2:00PM – 4.00PM
DURATION	2 HOURS

INSTRUCTIONS TO CANDIDATES

1. Please read the instructions given in the question paper CAREFULLY.

2. This question paper is printed on both sides of the paper.

3. This question paper consist of TWO sections.

4. Section A consist total of 40 marks. Multiple choice Questions. Answer ALL questions.

5. Section B consist of three questions. Answer ALL questions.

6. Please write your answer on the answer booklet provided.

7. Please answer all questions in English only.

THERE ARE 11 PAGES OF QUESTIONS INCLUDING THIS PAGE

SECTION A (Total: 40 marks)

Answer ALL questions.
Please use the OMR provided

1. What is Cloud Computing?

   A. Cloud Computing means providing services like storage, servers, database, networking.

   B. Cloud Computing means storing data in a database

   C. Cloud Computing is a tool used to create an application

   D. None of the mentioned

2. Which of the following is not a type of cloud server?

   A. Public Cloud Servers

   B. Private Cloud Servers

   C. Dedicated Cloud Servers

   D. Merged Cloud Servers

3. Which of the following are the features of cloud computing?

   A. Security

   B. Availability

   C. Large Network Access

   D. All of the mentioned

4. Which of the following is a type of cloud computing service?

   A. Service-as-a-Software (SaaS)

   B. Software-and-a-Server (SaaS)

   C. Software-as-a-Service (SaaS)

   D. Software-as-a-Server (SaaS)

5. Which of the following is the application of cloud computing?

   A. Adobe

   B. Paypal

   C. Google G Suite

   D. All of the above

6. Which of the following is an example of the cloud?

    A. Amazon Web Services (AWS)

    B. Dropbox

    C. Cisco WebEx

    D. All of the above

7. Which of the following is an example of a PaaS cloud service?

    A. Heroku

    B. AWS Elastic Beanstalk

    C. Windows Azure

    D. All of the above

8. Which of the following is an example of an IaaS Cloud service?

    A. DigitalOcean

    B. Linode

    C. Rackspace

    D. All of the above

9. Point out the wrong statement.

    A. Azure enables .NET Framework applications to run over the Internet

    B. Cloud Computing has two distinct sets of models

    C. Amazon has built a worldwide network of datacenters to service its search engine

    D. None of the mentioned

10. Which architectural layer is used as a backend in cloud computing?

    A. cloud

    B. soft

    C. client

    D. All of the mentioned

11. Which of the following architectural standards is working with cloud computing industry?

    A. Web-application frameworks

    B. Service-oriented architecture

    C. Standardized Web services

    D. All of the mentioned

12. Which of the following is required by Cloud Computing?

    A. That the identity be authenticated

    B. That the authentication be portable

    C. That you establish an identity

    D. All of the mentioned

13. Cloud computing is a concept that involves pooling physical resources and offering them as which sort of resource?

    A. cloud

    B. real

    C. application

    D. none of the mentioned

14. Which of the following is the Cloud Platform provided by Amazon?

    A. AWS

    B. Cloudera

    C. Azure

    D. All of the mentioned

15. Which of the following model consists of the service that you can access on a cloud computing platform?

    A. Deployment

    B. Service

    C. Storage

    D. Tools

16. Which of the following is the most important area of concern in cloud computing?

    A. Scalability

    B. Storage

    C. Security

    D. All of the mentioned

17. Which of the following is the most refined and restrictive cloud service model?

    A. PaaS

    B. IaaS

    C. SaaS

    D. CaaS

18. Which of the following is an example of a SaaS cloud service?

    A. Google Workspace

    B. Dropbox

    C. Salesforce

    D. All of the above

19. In which of the following service models the hardware is virtualized in the cloud?

    A. NaaS

    B. PaaS

    C. CaaS

    D. IaaS

20. Which of the following is NOT a characteristic of Big Data?

    A. Volume

    B. Variety

    C. Veracity

    D. Visualization

21. What does the 'Volume' aspect of Big Data refer to?

    A. The speed of data generation

    B. The variety of data types

    C. The sheer amount of data

    D. The accuracy of data

22. What is a key benefit of Big Data analysis?

    A. Reduced hardware requirements

    B. Lower cost of implementation

    C. Limited data storage

    D. None of above

23. Which of the following is the best description of Big Data?

    A. A small dataset processed using traditional tools

    B. Data that requires new forms of processing due to its size, variety, or speed

    C. Data stored in SQL databases

    D. Data collected from social media platforms

24. Which of the following statements is true about the relationship between Big Data and traditional data processing?

    A. Big Data can always be processed with traditional methods

    B. Traditional methods can handle the velocity of Big Data

    C. Traditional methods struggle with the volume and variety of Big Data

    D. There is no difference between Big Data and traditional data

25. Which of the following challenges is specifically associated with Big Data's velocity?

    A. Ensuring data accuracy

    B. Handling the speed at which data is generated

    C. Reducing data storage requirements

    D. Visualizing the data

26. Which type of data does the variety aspect of Big Data primarily address?

    A. Structured

    B. Unstructured

    C. Both structured and unstructured

    D. Neither

27. Which of the following is one of the 3Vs of Big Data?

    A. Volume

    B. Variant

    C. Valve

    D. Validation

28. Which of the following challenges is most associated with Big Data's 'Volume'?

    A. Managing large amount of data

    B. Ensuring Data security

    C. Processing real time data

    D. Handling different data format

29. What does the 'Volume' aspect of Big Data?

    A. The speed of data generation

    B. The variety of data types

    C. The sheer amount of data

    D. The accuracy of data

30. What is the full form of IANA?

    A. Internal Assessment Numerical Access

    B. Internet Association Numbers Authority

    C. International Aid for Network Automation

    D. Internet Assigned Numbers Authority

31. OSI stands for:

    A. Open system Inter computer

    B. Open system Inter console

    C. Open system Interconnectivity

    D. Open system Inter Company

32. Which is not an IoT platform?

    A. Xiaomi Cloud

    B. GoogleCloud

    C. Myntra

    D. AWS(Amazon Web Services)

33. Which of the following cannot be considered an IoT device?

    A. Smartwatch

    B. Andriod Phone

    C. Laptop

    D. Tubelight

34. Cloud computing is based on _____ technology.

    A. Grid computing

    B. Software

    C. None

    D. Both of these

35. What is the standard form of RFID?

    A. Radio Frequency Identification

    B. Radio Waves Frequency Identification

    C. Radio Frequency Interdependent

    D. Radio Wave Frequency Independent

36. What is considered the standard length for a MAC Address?

    A. 8 bits

    B. 32 bits

    C. 48 bits

    D. None of these

37. What is mandatory for an IP Packet to contain?

    A. Destination IP Address

    B. Source IP Address

    C. Both of these

    D. None of these

38. At which level does the switch operate in the OSI reference model?

    A. Data Link

    B. Network

    C. Physical

    D. None of these

39. What is an IoT network?

    A. a collection of networked devices

    B. a collection of Interconnected devices

    C. a collection of signaled devices

    D. None of the above

40. Which of the following is NOT one of the 3Vs of Big Data?

    A. Volume

    B. Velocity

    C. Variety

    D. Validation

Please use the Answer Booklet

Question 1

(a) State and briefly explain **THREE (3)** main types of Cloud Computing
   i. SaaS

   ii. LaaS

   iii. Pass

(15 marks)

(b) State **FIVE (5)** Cloud Conceptual Reference Model.

(5 marks)

Question 2

(a) Explain **FIVE (5)** characteristic of Big Data:

(10 marks)

(b) What is the best definition for Sensor in IoT? State any **EIGHT (8)** Type of sensor used in IoT.

(10 marks)

Question 3

(a)   States **EIGHT (8)** Advantages of virtual machines

(8 marks)

(b)   Some organizations create and maintain their own data centers in-house, state **SIX (6)** benefit gain by having a Data center.

(6 marks)

(c)   State **SIX (6)** reasons why IoT becoming important nowadays.

(6 marks)

END OF EXAMINATION PAPER