



**BBC-003-1046003**

Seat No. \_\_\_\_\_

**B. Sc. (IT) (Sem. VI) Examination**

**July - 2021**

**Information Technology**

*(Internet of Things)*

**Faculty Code : 003**

**Subject Code : 1046003**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 70

- 1 (A) Attempt following Questions. 4
- (1) Define Io T
  - (2) Full form for WSN \_\_\_\_\_.
  - (3) Full form of IOT.
  - (4) BPM Stands for \_\_\_\_\_.
- (B) Attempt Following Question. 2
- (1) What is WAN?
- (C) Attempt Following Question. 3
- (1) Give difference between M2M and IoT.
- (D) Attempt Following Question. 5
- (1) Explain Data Management.
- 2 (A) Attempt following Questions. 4
- (1) XAAS stands for \_\_\_\_\_.
  - (2) What is Gateway?
  - (3) RFID stands for \_\_\_\_\_.
  - (4) What is Sensor?
- (B) Attempt Following Question. 2
- (1) Explain knowledge management.
- (C) Attempt Following Question. 3
- (1) Explain Business processes in IoT.
- (D) Attempt Following Question. 5
- (1) Explain XAAS in detail.

- 3** (A) Attempt following Questions. **4**
- (1) Full form of ITU.
  - (2) Full form of ARM.
  - (3) Full form of M2M.
  - (4) Full form of MSBF.
- (B) Attempt Following Question. **2**
- (1) What are Technical design constraints in IOT?
- (C) Attempt Following Question. **3**
- (1) Explain ETSI M2M responsibility.
- (D) Attempt Following Question. **5**
- (1) Explain : (1) function view (2) Information view
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- 4** (A) Attempt following Questions. **4**
- (1) Full form of OGS.
  - (2) What is main work of Domain model?
  - (3) Define State of the art.
  - (4) Full form of IETF.
- (B) Attempt Following Question. **2**
- (1) Explain Interaction and Remote Control.
- (C) Attempt Following Question. **3**
- (1) What is Data representation and visualization?
- (D) Attempt Following Question. **5**
- (1) Explain IoT reference model in detail.
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- 5** (A) Attempt following Questions. **4**
- (1) Full form of 6TiSCH.
  - (2) Full Form of ICMP.
  - (3) Full Form of IEEE.
  - (4) Full form of MAC.
- (B) Attempt Following Question. **2**
- (1) Explain Z-Wave with detail.
- (C) Attempt Following Question. **3**
- (1) Explain Bluetooth low energy.
- (D) Attempt Following Question. **5**
- (1) Explain RPL, CORPLand CARP in detail.

- 6** (A) Attempt following Questions. **4**
- (1) Full form of 3GPP MTC.
  - (2) Full form of CORPL.
  - (3) The IPv6 address size is \_\_\_\_\_ bits long.
  - (4) Full form of ND.
- (B) Attempt Following Question. **2**
- (1) Give difference between IPv4 and IPv6.
- (C) Attempt Following Question. **3**
- (1) Explain IEEE 802.15.
- (D) Attempt Following Question. **5**
- (1) Explain ND and DHCP.
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- 7** (A) Attempt following Questions. **4**
- (1) Full form of DCCP.
  - (2) Full form of SCTP.
  - (3) Full form of MQTT.
  - (4) Full form of UDP.
- (B) Attempt Following Question. **2**
- (1) What is XMPP?
- (C) Attempt Following Question. **3**
- (1) Give difference between TCP and UDP.
- (D) Attempt Following Question. **5**
- (1) Explain TLS and DTLS with detail.
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- 8** (A) Attempt following Questions. **4**
- (1) Full form of AMQP.
  - (2) Full form of DTLS.
  - (3) Full form of MPTCP.
  - (4) Full form of HTTP.
- (B) Attempt Following Question. **2**
- (1) What is HTTP?
- (C) Attempt Following Question. **3**
- (1) Explain MPTCP.
- (D) Attempt Following Question. **5**
- (1) Explain COAP and MQTT.

- 9 (A) Attempt following Questions. 4  
(1) Full form of CSE.  
(2) Full form of OMA.  
(3) Full form of RPL.  
(4) Full form of 6LoWPAN.
- (B) Attempt Following Question. 2  
(1) What is OMA?
- (C) Attempt Following Question. 3  
(1) Explain BBF.
- (D) Attempt Following Question. 5  
(1) Write a note on 6LoWPAN.
- 10 (A) Attempt following Questions. 4  
(1) Full form DODAG.  
(2) Full form of BBF.  
(3) What is work of application layer?  
(4) Full form of ETSI.
- (B) Attempt Following Question. 2  
(1) What is RPL?
- (C) Attempt Following Question. 3  
(1) Explain one M2M.
- (D) Attempt Following Question. 5  
(1) Explain Application layer in detail.
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