

श्री जैन (पी.जी.) कॉलेज, बीकानेर

BC-404

B.C.A. (Part-III) Examination, 2021

INTERNET OF THINGS

Paper - BCA-305(B)

Time : 1½ Hours]

[Maximum Marks : 70

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit 50 words). Each question carries 2 marks.

(खण्ड-अ)

(अंक : 2 × 10 = 20)

नोट :- सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 50 शब्द)। प्रत्येक प्रश्न 2 अंक का है।

Section-B

(Marks : 4 × 5 = 20)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit 200 words). Each question carries 4 marks.

(खण्ड-ब)

(अंक : 4 × 5 = 20)

नोट :- सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए (उत्तर-सीमा 200 शब्द)। प्रत्येक प्रश्न 4 अंक का है।

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit 500 words). Each question carries 10 marks.

(खण्ड-स)

(अंक : 10 × 3 = 30)

नोट :- पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 500 शब्द)। प्रत्येक प्रश्न 10 अंक का है।

Section-A

2 each

1. Attempt all questions. Answer should not exceed **50** words in each question :
- (i) Define XMPP.
 - (ii) What is M2M ?
 - (iii) What is IOT System Management ?
 - (iv) Define YANG.
 - (v) What is IOT Device ?
 - (vi) What is DJANGO ?
 - (vii) What is Hadoop Yorn ?
 - (viii) Define Apache Storm.
 - (ix) What is Puppet ?
 - (x) What is CHEF ?

Section-B

4 each

Answer all questions. Answer should not exceed **200** words in each question.

2. What is IOT ? Explain the types of IOT.

Or

What are the differences between SDN and NFV ?

3. What is SNMP ? Elaborate it.

Or

What are the logic designs in IOT ? Explain it.

4. How is Raspberry PI different from a desktop computer ?

Or

What is SKYNET ? Explain what does it mean ?

5. Explain Apache Oozie.

Or

What is Building block in IOT ?

6. Explain IOT code generation.

Or

State the benefits of Puppet in brief.

Section-C

10 each

Attempt any *three* questions out of five. Answer should not exceed **500** words in each question.

7. Define characteristics and architecture of IOT.
8. Explain the methodology design of IOT platform.
9. What protocols does the skynet messaging platform support ?
10. Explain the MapReduce programming model.
11. Explain managing smart irrigation IOT system with NETCONF.YANG.

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

श्री जैन (पी.जी.) कॉलेज, बीकानेर

BC-388

B.C.A. (Part-III) Examination, 2022

INTERNET OF THINGS

Paper - BCA-305 (B)

Time : 3 Hours]

[Maximum Marks : 70

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit 50 words). Each question carries 2 marks.

Section-B

(Marks : 4 × 5 = 20)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit 200 words). Each question carries 4 marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit 500 words). Each question carries 10 marks.

Section-A

1. (i) What is SNMP ?
- (ii) Characteristics of IOTs.

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- (iii) What is SkyNet ?
- (iv) Define IOT Logical Design.
- (v) What is Apache Oozie ?
- (vi) What is WAMP ?
- (vii) How to using the IOT tools NETCONF-YANG ?
- (viii) How to work IOT Code generator ?
- (ix) Define Apache Hadoop.
- (x) Draw Logical Design of IOTs.

Section-B

2. Define the architecture of IOTs.

Or

Explain the uses of Protocols in IOTs.

3. Define the IOT platform design Methodology.

Or

What the requirements uses in SNMP ?

4. Explain the IOT devices and draw a building blocks structure.

Or

Define the Django.

5. What is Apache Spark ?

Or

Differentiate between Apache Storm and Hadoop Yarn.

6. Define the SDN.

Or

What is meant by Internet of things ? Briefly explain.

Section-C

7. Explain the map reduce Programming Model.
8. Define the all types of IOTs and how it works.
9. How to IOT Code Generator work ? Explain it.
10. How is Raspberry PI different from other devices ?
11. Define all tools using for IOT.