GOA VIDYAPRASARAK MANDAL'S

GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE ANDECONOMICS, PONDA - GOA B.C.A. (SEMESTER- VI) EXAMINATION JUNE 2022

DISCIPLINE SPECIFIC ELECTIVE COURSE

INTERNET OF THINGS

Duration: 2 Hours	Marks: 60
Q.1. A) Fill in the Blanks:	(5x1=05)
a) The Arduino was initially created for wearable p	rojects.
b) AppStore Applications are an example of as a Se	ervice.
c) The Arduino are the boards, which can be plugge	ed on the top of the PCB.
d) behaves as an intermediate layer between cloud a	and devices.
e) The Raspberry Pi Model is recommended for em	bedded and low-power projects that do not
require Ethernet or multiple USB ports.	
B) Define the following:	(5x1=05)
a) Accuracy of a sensor.	
b) Precision of a sensor.	
c) Cloud Computing.	
d) Node-red.	
e) Fog Computing.	
Q.2. Answer the following:	
A) Explain in brief the categories of IoT.	(02)
B) With the help of neat diagram, explain the functional bloc	eks in IoT. (03)
C) Write a short note on applications of IoT.	(05)
Q.3. Answer the following:	
A) Explain in brief the Arduino offline IDE.	(02)
B) With the help of neat diagram, explain the Request-Response	onse model. (03)
C) Explain in detail any two actuator types.	(05)
Q.4. Answer the following:	
A) State the features of Raspberry Pi model 4.	(02)
B) Explain the components of Arduino Uno board.	(03)
C) With the help of a neat diagram, explain the Process Spec	effication for Home Automation System. (05)
Q.5. Answer the following:	
A) State and explain in brief the Cloud Deployment Models.	
B) With the help of a neat diagram, explain the Cloud Sensor	
C) With the help of a neat diagram, explain the Level Specific	ication for Home Automation System. (05)
Q.6. Answer the following:	
A) Define Sensor Cloud and state the Sensor Cloud Actors.	(02)
B) Write a short note on the working of Fog.	(03)
C) Write programsto interface IR sensor with	(05)
a. Arduino board.	
b. Raspberry Pi	
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