Total No. of Questions: 8]	9	SEAT No. :
PA-3179		[Total No. of Pages : 2

[5926]-268 T.E. (Printing Engineering)(Honors) INTERNET OF THINGS

		(2019 Pattern) (Semester-I) (308211	.)			
Time	: 21/2	Hours]	Max. Marks: 70	9		
Instr	uctio	ns to the candidates:				
	<i>1</i>)	Solve Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.				
	<i>2</i>)	Figures to the right indicate full marks.	7			
	<i>3</i>)	Assume suitable data, if necessary.)			
	4)	Neat diagrams must be drawn wherever necessary.				
Q 1)	a)	Explain the characteristics of sensors and actuators.	[9]]		
	b)	Explain the LDR interfacing using Arduino Board. OR	[9]]		
Q2)	a)	Explain working and characteristics of any two types of				
		printing industry.	[9]	J		
	b)	Explain the servo-motor interfacing using Arduino Boa	rd. [9]]		
<i>Q3</i>)	a)	Explain the Wi-Fi Communication system and explain	n the FHSS and	d_{0}		
		DSSS technique used in WiFi.	[8]] /		
	b)	Explain the pinouts of ESP8266. OR]		
<i>Q4</i>)	a)	Explain any two protocols used in IOT applications.	[8]	1		
۷.)	b)					
	<i>- /</i>	1. pinMode(LED_BUILTIN, OUTPUT);				
	2. servo_7.attach(7, 500, 2500)					
	3. digitalWrite(LED_BUILTIN, HIGH);					
		4. noTone(0)	2			
		5. Serial. println("hello world")				
		6. digitalRead(11);				
		7. analogRead(A0)				
		8. #include <servo.h></servo.h>				
		9. pinMode(6, OUTPUT)				
		3. digitalWrite(LED_BUILTIN, HIGH); 4. noTone(0) 5. Serial. println("hello world") 6. digitalRead(11); 7. analogRead(A0) 8. #include <servo.h> 9. pinMode(6, OUTPUT)</servo.h>				

