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Vivekanand College, Kolhapur (Empowered Autonomous) Department of Electronics Notice

Date: 12.10.2023

All the students of B.Sc. III Electronics are hereby informed that their internal examination for Semester V will be conducted in offline mode as per attached schedule.

Paper Section title		Marks	Date	Time	
DSE 1005E1 Section-I	Fundamentals of Instrumentation	15	18/10/2023	11.30 am to 12.20 pm	
DSE 1005E1 Section-II Section-II Interfacing		15	19/10/2023	11.30 am to 12.20 pm	
DSE 1005E2 Section-I	Antenna and Wave Propagation	15	20/10/2023	11.30 am to 12.20 pm	
DSE 1005E2 Section-II	Industrial Process Control	15	21/10/2023	11.30 am to 12.20 pm	

Question Paper format:

Q.1 Select correct alternative

3*1 mark = 3 Marks

Q.2 Short answer questions: (Solve any THREE out of FOUR)

3*4 mark = 12 Marks



(Dr. C. B. Patil)

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(AUTONOMOUS)

	Ques. paper code
Seat No.	

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

B.Sc. Part- III (Electronics) (Sem-V) Internal Examination: April -2023 -

Course Code: DSE - 1005E1

Sectio	n - I: Fundamental of	Instrumentation	
Day: Date: 18/10/2	1024	Time: 11.30 am to 12.30 pm Marks: 15	
Q.1) Select Correct A			03
i) For construction of	DC Ammeter a	is connected in parallel with PMMC.	
a) Resistor	b) Spring	c) Coil d) Magnet	
ii) In Calibration the i	nstrument which is cali	brated is known asinstrument.	
a) Sensor	b) Standard	c) Test d) none of these	
iii) In Energy meter the	he moving disc measure	es power consumption in	
a) Watts	b) Kilowatt hours	. Duana of these	12
Q.2) Attempt any T			
1) What is Standard?	Explain its types in sho	ort.	
2) Compare Moving	Coil and Moving Iron t	ype Instrument.	
3) Explain RMS and	TRMS concept.		
4) Explain Series typ	oe of Ohmmeter.		



Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (Empowered Autonomous)

Class: B.Sc.-III, Semester-V, Internal Examination (2023-24)

Paper code: DSE-1005E1

Section II: 8051 Microcontroller Interfacing and Embedded C

	-19/10/2023 : 11:30pm to 12:20pm	n		Marks: 15
177		ative for the following:		$[3 \times 1 = 3]$
i.	Data range for signe A) 0 to 255	ed char data type is B) -128 to +127	C) 0 to 65535	D) -32768 to +32767
ií.	A) Octal	nbwheel switch is in B) BCD	C) Hex	D) ASCII
iii.	Super loop/s in 805 A) for(;;)	1 C is/are B) while(1)	C) if-else	D) both (a) and (b)
Q.	Solve any THREE:			$[3 \times 4 = 12]$

- Mention the advantages of embedded-C over Assembly language. Tabulate various Data types in 8051-C
- Write an 8051-C program to toggle bits of P1 continuously forever with 250mS delay.
 (Delay function should be using for loops)
- Write an 8051-C program to generate delay of 5mS at port pin P1.5 using timer delay in mode 1. Assume f=11.0592MHz.
- Draw an interfacing diagram of LED with 8051 and write 8051-C program to blink Led with certain time interval.
- v. Interface single seven segment display with 8051 and write 8051-C program to display the digits 0 to 9 continuously.

Vivekanand College, Kolhapur

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B.Sc. Part- III (Electronics) (Sem-V)

Internal Examination Oct 2023 Course Code: DSE - 1005 E2

Section-I: Antenna and Wave Propagation

Marks: 15 Date: 20/10/2023

Q.1) Select most correct alternatives for the following (one mark each) [3 Marks] 1. ----- transmitting or receiving system that is designed to radiate or receive electromagnetic waves. B) Oscilloscope Electron gun A) None of the mentioned D) Antenna (C) 2. ----- is the nature of radiation pattern of an isotropic antenna Spherical B) Dough-nut A) D) Hyperbolic (C) Elliptical 3. Input impedance of an antenna is the ratio of the ----- at a pair of terminals voltage to resistance current to resistance B) D) voltage to current Current to voltage C) [12 Marks] Q.2) Attempt any Three (Four marks each) 1. Explain the Current distribution on thin wire antenna.

- 2. Explain the wire type antenna in short.
- Explain the radiation pattern and radiation lobes of antenna.
- 4. Explain the following terms with respect to antenna.
 - a. Directivity.
 - b. Radiation resistance



Seat No.

Ques, paper code

VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

B.Sc, Part- III (Electronics) (Sem-VI) Internal Examination: October -2023

Course Code: DSE - 1005E2

Section - II: Industrial process control and PLC programming

Day: Monday

Time: 11.30 am to 12.30 pm

Date:21/10/2023

Marks: 15

Q. 1. A] Select correct alternative

[2]

- Sprinkler is a example of ----- system.
 - A. Closed-loop
 - B. Open-loop
 - C. Adaptive
 - D. Feed forward
- 2. Feedback loop system is also called as -----system.
 - A. Closed-loop
 - B. Open-loop
 - C. Adaptive
 - D. Feed forward
- In Open-loop control systems are----- stable.
 - A. More
 - B. Less
 - C. Moderate
 - D. none of these

Q.2. Attempt any Three

[12]

- 1. Write a note on feed forward control system.
- Discuss open loop control system and closed loop control system.
- 3. Write a note on multi-position control system.
- 4. Explain Proportional, Derivative and PI control system

