

## Sixth Semester B.E. Degree Examination, December 2012

**Mechatronics and Microprocessor**

Time: 3 hrs.

Max. Marks:100

*Note: Answer FIVE full questions, selecting at least TWO questions from each part.*

**PART – A**

1.
  - a. What is mechatronics? What are the objectives of mechatronics? (05 Marks)
  - b. Explain briefly the elements of a measuring system, with an example. (05 Marks)
  - c. Explain with the block diagram, how a microprocessor based control system is used to control the focusing and exposure of an automatic camera. (10 Marks)
2.
  - a. What is the difference between a sensor and transducer? (04 Marks)
  - b. What is Hall effect? Explain with a neat sketch the principle of Hall effect sensor. (06 Marks)
  - c. What are light sensor? Explain briefly the following: (10 Marks)
    - i) Photo emissive cell
    - ii) Photo conductive cell
    - iii) Photovoltaic cell
3.
  - a. What is an actuator? List the various types of actuators. (04 Marks)
  - b. Explain the terms bouncing and debouncing as applied to mechanical switches? Mention the various methods which can be to tackle the problem of bouncing in mechanical switches. (08 Marks)
  - c. What are stepper motors? State the advantages and applications. (08 Marks)
4.
  - a. Define signal conditioning. What are the necessity for signal conditioning? (05 Marks)
  - b. What is an operational amplifier (op-amp)? Why it is called an operational amplifier? (05 Marks)
  - c. What do you mean by the term filtering and filter? How are filters classified? (05 Marks)
  - d. List the functions of signal conditioning equipment. Explain the function of these equipments. (05 Marks)

**PART – B**

5.
  - a. Explain briefly the evolution of microprocessor. (06 Marks)
  - b. Represent the real numbers +16.5 and -16.5 in a 32 bit memory using floating point notation. (06 Marks)
  - c. Explain the concept of overflow and underflow with an example. (08 Marks)
6.
  - a. Enumerate the difference between microprocessor and microcontroller. (04 Marks)
  - b. What is a clock? Why a clock is necessary in a microprocessor? Draw the ideal and non-ideal clock. (06 Marks)
  - c. What is meant by instruction set? Discuss the five group of instruction set with an example (for each group). (10 Marks)
7.
  - a. Draw the functional block diagram of the Intel 8085 microprocessor. (04 Marks)
  - b. Explain with a block diagram the flow of instruction word and flow of data word in a microprocessor. (12 Marks)
  - c. What are the functions of CPU? (04 Marks)
8. Write short notes on the following:
  - a. Assembly language programming
  - b. Fetch cycle and write cycle
  - c. System timing
  - d. Character representation
 (20 Marks)

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web in the frog dissection gizmo you will complete a virtual dissection of a female and male frog first select the female frog then click on the rotate button with the rotate button selected click and drag on the frog to rotate it observe what the female frog looks like now select show male at the bottom left to switch to the male frog

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web lab resources the frog dissection gallery is a good resource for teachers and students to review the parts of the frog i also encourage my students to try to discover the answers to their questions before asking for help

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web in this investigation you will observe the external features of a preserved frog and identify parts of its external anatomy you will also dissect the preserved frog to observe its internal anatomy and make comparisons to human anatomy pre lab questions read the entire investigation then answer the following questions 1

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web the frog s reproductive and excretory system is combined into one system called the urogenital system you will need to know the structures for both the male and female frog kidneys flattened bean shaped organs located at the lower back of the frog near the spine they are often a dark color

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web frog dissection teacher s guide and answer key dissection tips and tricks obtain grass frogs from a biological supply company i usually order mine from carolina it is not necessary for this lab to get the injected frogs i have also gotten a single pack of bullfrogs to give one per class

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web dissection instructions 1 place the frog in the dissecting pan ventral side up 2 use scissors to lift the abdominal muscles away from the body cavity cut along the midline of the body to the forelimbs 3 make transverse horizontal cuts near the arms and legs 4 life the flaps of the body wall and pin back

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web 1 what class does the frog belong to 2 why does a frog belong to that class 3 why are amphibians considered to be a unique evolutionary group part b external anatomy orientation label the orientations on the frog picture 4 locate the following orientations on your frog below a dorsal side b ventral side

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male frog usually has thick pads on its thumbs which is one external difference

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terms in this set 14 mesentary membrane that holds the coils of the small intestine together gall bladder stores bile found  
under liver

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anatomy and the anatomy of the mouth student guide requires them to label images and answer questions students continue  
with the internal anatomy where they open the abdominal cavity to reveal the major organs

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web use a scalpel forceps and pins to dissect realistic male and female frogs organs can be removed and placed into organ  
system diagrams once the dissections are complete the frog organ systems can be compared zooming rotating and panning  
tools are available to examine the frog from any angle full lesson info

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underwater why is the frog s skin thin and moist blends into it s environment how does coloring help frog survive keeps eye  
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in mathematical concepts they involve spatial reasoning and patterning algebra and extend to applications in computer  
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web aug 20 2021 this week i created a printable version of the tiles i also experimented with hexagonal version this is just a draft my kids had a fun time playing i love the similarities of kolam with some of the knot activities i do with students from dot paper to tiles

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web the authors will briefly discuss the importance of everyday activities to children s learning and provide a theoretical framework and the potential skills visual spatial and algebraic and academic concepts nested in the kolam activity contains 3 figures

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web kolam is a geometrical drawing composed of curved loops drawn around a grid pattern of dots it is sometimes called rangoli and can be very elaborate and colorful kolams originated about 2500 bc in the indus valley civilization and are believed to help bring wealth and prosperity to the home or business

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web jan 4 2020 it s about mathematics too another fascinating facet of a kolam is the science and mathematics base on which these designs are built the design is built on a grid of dots it is based on fibonacci series algebraic and numeric principles kolam epitomises geometrical properties of symmetry periodicity recursion and rhythm

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