المستوى الأول

Faculty of Computers
&
Information
Computer Law
(HUM141)

Year 2017-2018
First Level
First - term Exam
Date: 3/1/2017
2 Hours

Answer the following questions

Q1. PutTrue (T) or False (F) and correct the false sentences(12 points)

1. Defamation involves any person with intent to lower down the dignity of the person by hacking his mail account. ( )
2. Primary prevention uses techniques focusing on youth who are dropping out of school or getting involved in gangs. ( )
3. Processing controlis a general control. ( )
4. Virus propagates through computer networks without user intervention ( )
5. Application controls are unique to each computerized program, such as payroll or order processing. ( )
6. Bonus software meant something that looks benign, but contains some hidden and potentially dangerous content. ( )

Q2. Give the scientific term for the following definition(18 points)

1. Devises plans for the restoration of computing and communications services after they have been disrupted (.....)
2. Monitors all data flowing in and out of the computer to the Internet and blocks attacks from reaching the system. (.....)
3. Helps the firm determine the most cost-effective set of controls for protecting assets (.....)
4. An offence targeting computer data and systems.(.....)
5. The combination of sound, text and images in a digital format, which is made accessible by a computer program. (.....)
6. Refers to the policies, procedures, and technical measures used to prevent unauthorized access. (.....)

Answer only **Two** questions of the following

Q3. **(15 Points)**

1- Why systems are vulnerable?**(5 points)**

2- Define Online Fraud and give five examples with brief explanation. **(10 points)**

Q4. **(15 points)**

1- Define Malicious Software and give five Malware access points with brief explanation. **(10 points)**

2- List five Cybercrimes Against property? Explain in brief**(5 points)**

Q5. **(15 points)**

1. What is the difference between Copyright and Industrial Property , give five examples protected by each term?**(10 points)**
2. List with brief discussion general controls within organization?**(5 points)**

مع تمنياتى بالنجاح والتوفيق
د/ منى جمال جعفر

الدرجة: 60

اسم الطالب:
الرقم الاكاديمي:

Kafrelsheikh University
Faculty of Computers & Information

إمتحان الفرقة : الاولي حاسبات
الزمـــــن : 3 ساعـــة

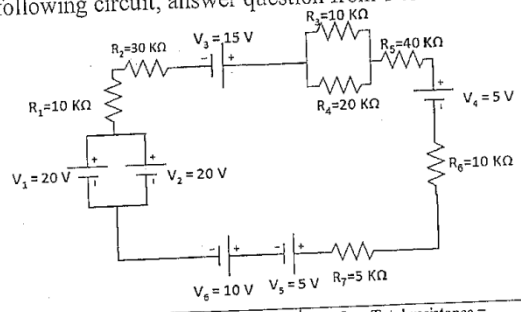
للعام الدراسي 2018/2017
الترم الاول

اسم المقرر : Electronics
الدرجـــة : 60 درجـــة

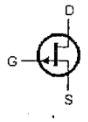
Answer the following questions (each question 1.5 degree)

Choose the correct answer:

Using the following circuit, answer question from 1 to 4.

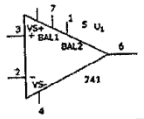


1- Total voltage = a) 15 A. b) 0 A. c) 20 A. d) none of the above.	2- Total resistance = a) 100.67 KΩ. b) 101.67 KΩ. c) 201 KΩ. d) 102 KΩ.
3- Total current = a) 148 mA. b) 160 mA. c) 148 µA. d) 49.3 µA.	4- Current in R_2 = a) 98.67 µA. b) 160 mA. c) 148 µA. d) 49.3 µA.
5- Which of the following statements does not represent ohm's law? a) current / potential difference = constant b) potential difference / current = constant c) potential difference = current x resistance d) current = resistance x potential difference insulator	6- Kirchhoff's voltage law is based on law of conservation of a) charge b) energy c) momentum d) mass

7- A diode has a) one depletion region b) two depletion region c) three depletion region d) none of the above	8- The most widely used rectifier is a) half-wave rectifier b) centre-tap full-wave rectifier c) bridge full-wave rectifier d) none of the above
9- Diode characteristic curve is a plot between a) current and time b) voltage and time c) voltage and current d) both a and b	10- Smoothing circuit used in amplifiers a) True b) False
11- A transistor has a) one terminal b) two terminals c) three terminals d) four terminals	12- The Emitter of a transistor is ..... doped a) heavily b) moderately c) lightly d) none of the above
13- .....is the most commonly semiconductor to manufacture a transistor. a) germanium b) silicon c) carbon d) none of the above	14- The collector-base junction in a transistor has a) forward bias at all times b) reverse bias at all times c) low resistance d) none of the above
15. Majority carriers in p-semiconductor are: a) electrons b) holes c) electrons and holes d) none of the above	16. In PNP transistor, the base is : a) n-semiconductor b) p-semiconductor c) p-semiconductor and n-semiconductor d) none of the above
17. Bridge full-wave rectifier used to: a) convert a.c. signals to d.c. signals. b) convert d.c. signals to. a.c signals. c) convert a.c. signals to d.c. signals and vie versa. d) neither d.c. nor a.c. signals.	18. The important mode of transistor is a) saturation mode b) active mode c) cut-off mode d) all of the above
19. Transistor as amplifier can be a) common emitter b) common collector c) common base d) all of the above	20. Symbol of transistor  a) PPN transistor b) NPN transistor c) PNP transistor d) none of the above
21. The Op-amp can amplify a) a.c. signals only b) d.c. signals only c) both a.c. and d.c. signals d) neither d.c. nor a.c. signal	22. A differential amplifier a) is a part of an Op-amp b) has one input and one output c) has two outputs d) answers (1) and (2)
23. An ideal operational amplifier has a) infinite output impedance b) zero input impedance c) infinite bandwidth d) All of the above	24. An operational amplifier contains a differential amplifier, a voltage amplifier, and an output amplifier. a) True b) False

25. The inverting input is pin 3

a) True
b) False



26. The ideal output impedance for an *operational amplifier* is infinite Ω

a) True
b) False

27- Two inputs A and B of NAND gate have 0 output, if

a) A is 0
b) B is 0
c) both are zero
d) both are 1

28- Gate that is also known as inverter is called

a) OR
b) NOT
c) XOR
d) NAND

29- Which logic gate has the following truth table

A	*B*	Out
0	0	0
1	0	0
0	1	0
1	1	1

a) An exclusive NOR gate.
b) A two-input OR gate.
c) An exclusive OR gate.
d) A two-input AND gate.

30- Which logic gate has the following truth table

A	*B*	Out
0	0	1
1	0	0
0	1	0
1	1	0

a) An exclusive NOR gate.
b) A two-input NOR gate.
c) An exclusive OR gate.
d) A two-input NAND gate.

31- Two resistances of 100 Ω and zero Ω are connected in parallel. The overall resistance will be

a) 100 V.
b) 0 V.
c) 20 V.
d) None of the above.

32- The capacitance *C* depends on

a) the area of a plate.
b) the distance between plates.
c) The dielectric constant of the material between the plates.
d) All of the above

33- The unit of inductance is

a) Ohm.
b) Henry.
c) Farad.
d) None of the above.

34- In a pure inductive circuit

a) the current is in phase with the voltage
b) the current lags behind the voltage by 90°
c) the current leads the voltage by 90°
d) the current can lead or lag by 90°

35- Equivalent circuit laws for inductors in series and parallel is ..... to that for resistors

a) similar to that for resistors.
b) similar to that for capacitors.
c) both a and b.
d) None of the above.

36- As the capacitor discharges, the capacitor voltage decays .....with a time constant.

a) exponentially
b) linearly
c) both a and b.
d) None of the above.

37- In p-type extrinsic semiconductors, defects are located

a) above conduction band
b) lower conduction band
c) above valance band
d) lower valance band

38- Output voltage can be limited bigger than 0.7 by

a) voltage dropper
b) diode limiter
c) diode clipper
d) all of the above

39- Silicon controlled rectifier can be controlled by

a) the base
b) the gate
c) the collector
d) both a and b

40- Logic gates are transistors in saturation modes

a) True
b) False

End of the test With my best wishes **Dr. Mahmoud Saad**

Answer sheet:

الدرجة:

1- a- ○ b- ○ c- ○ d- ○	2- a- ○ b- ○ c- ○ d- ○
3- a- ○ b- ○ c- ○ d- ○	4- a- ○ b- ○ c- ○ d- ○
5- a- ○ b- ○ c- ○ d- ○	6- a- ○ b- ○ c- ○ d- ○
7- a- ○ b- ○ c- ○ d- ○	8- a- ○ b- ○ c- ○ d- ○
9- a- ○ b- ○ c- ○ d- ○	10- a- ○ b- ○ c- ○ d- ○
11- a- ○ b- ○ c- ○ d- ○	12- a- ○ b- ○ c- ○ d- ○
13- a- ○ b- ○ c- ○ d- ○	14- a- ○ b- ○ c- ○ d- ○
15- a- ○ b- ○ c- ○ d- ○	16- a- ○ b- ○ c- ○ d- ○
17- a- ○ b- ○ c- ○ d- ○	18- a- ○ b- ○ c- ○ d- ○
19- a- ○ b- ○ c- ○ d- ○	20- a- ○ b- ○ c- ○ d- ○
21- a- ○ b- ○ c- ○ d- ○	22- a- ○ b- ○ c- ○ d- ○
23- a- ○ b- ○ c- ○ d- ○	24- a- ○ b- ○ c- ○ d- ○
25- a- ○ b- ○ c- ○ d- ○	26- a- ○ b- ○ c- ○ d- ○
27- a- ○ b- ○ c- ○ d- ○	28- a- ○ b- ○ c- ○ d- ○
29- a- ○ b- ○ c- ○ d- ○	30- a- ○ b- ○ c- ○ d- ○
31- a- ○ b- ○ c- ○ d- ○	32- a- ○ b- ○ c- ○ d- ○
33- a- ○ b- ○ c- ○ d- ○	34- a- ○ b- ○ c- ○ d- ○
35- a- ○ b- ○ c- ○ d- ○	36- a- ○ b- ○ c- ○ d- ○
37- a- ○ b- ○ c- ○ d- ○	38- a- ○ b- ○ c- ○ d- ○
39- a- ○ b- ○ c- ○ d- ○	40- a- ○ b- ○ c- ○ d- ○

The University of Kafreshikh
The Faculty of Computers
1st Year Students
Sub.: English
Name:

Date: 17/01/2018
Time: 2 hrs
Mark: 60
Final Exam: 2 pgs
Academic No:

Answer the following questions:

I- Write a paragraph on "computer." **(10 Marks)**

II- Read the following passage and answer the questions below: **(30 Marks)**

Written forms of British and American English as found in newspapers and textbooks vary little in their essential features, with only occasional noticeable differences in comparable media (comparing American newspapers with British newspapers, for example). This kind of formal English, particularly written English, is often called "standard English."

The spoken forms of British English vary considerably, reflecting a long history of dialect development amid isolated populations. In the United Kingdom, dialects, word use and accents vary not only between England, Northern Ireland, Scotland and Wales, but also within them. *Received Pronunciation* (RP) refers to a way of pronouncing standard English that is actually used by about two percent of the UK population. It remains the accent upon which dictionary pronunciation guides are based, and for teaching English as a foreign language. It is referred to colloquially as "the Queen's English," "Oxford English" and "BBC English," although by no means do all graduates of the university speak with such an accent and the BBC no longer requires it or uses it exclusively.

English has 44 sounds: 24 consonants and 20 vowels. The 20 vowels are classified as 5 long vowels, 7 short vowels, and 8 diphthongs. Such sounds are used in phonetic transcriptions in modern dictionaries for English learners. You may see this by going through any English dictionary

1- How many sentences in the 1st paragraph?
2- How many letters in English?
3- What kind of abbreviation is *RP*?
4- Why are the words *Received Pronunciation* italicized?
5- Translate the last paragraph into Arabic.

III-Explain two abbreviations ONLY: **(10 Marks)**

BBC CNN MENA DNA

IV- Write the correct answer: **(10 Marks)**

1- There is a (little-few-a little) time; I cannot wait you.
2- Please, put the book (in-on-at) the shelf after you finish.
3- We have a meeting (in-at-on) 4 o'clock.
4- Studying English courses is (BASIC-basic-basics) for me.
5- He is a (cad-CAD-caddie) major.
6- He explained us how the computer (RAM-Ram-ram) works.
7- There are many (deer-deers-dears) in the zoo.
8- I have to finish my (duty-homework-housework) before watching TV.
9- I bought an (antiviral-antivirus- antibiotic) for my computer.
10- Please, write the correct answer only you choose from (brackets-parentheses-square brackets).

=======Good Luck=======

Dr Khaled Sirwah

Date: 10/1/2018
Time: (10am-12pm)
Level: One
Time Allowed: 2 Hours

Subject: History of Computers (HUM152)
2017-2018
(First semester exam)

Faculty of Computers & Information

Answer the following questions

Question1: (10 points)

Mark the following sentences with True or False and correct the false ones:

1. Circuit switching groups all transmitted data into switching sized blocks. (-)
2. Calculating clock could perform multiplication and division operations. ( )
3. Artificial Intelligence appeared in the first generation of computer. ( )
4. George Boole invented binary code. ( )
5. IBM chooses Motorola processors for its line of computers. ( )
6. Atanasoff Berry Computer could perform division operations. ( )
7. File transfer protocol permits two computers to share files as peers. ( )
8. Integrated circuits appeared in the second generation of computer. ( )
9. Apple II had an intel8080 microprocessor. ( )
10. Hollerith Machine helped in tabulating Census data. ( )

Question2: (5 points)

Write the scientific term:

1. Field of computer science exhibits some characteristics of human intelligence.
2. A network architecture in which each computer or process is either a client or a server.
3. The science of communicating over a long distance using telephone, or FC technologies.
4. A common-language framework improves the education and training of the information technology.
5. Sending information in small units, routed on different paths, and reconstructed at destination.

Question3: (20 points)

Write the difference between:

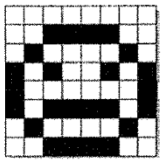
1. E-Commerce and E-Business.
2. Pascaline and Leibniz calculator.

Kafrelsheikh University	Undergraduate Program Academic Year 2017/2018 Final IT Fundamentals IT 101 (60 marks) 2 Pages	College of Computers and Information
Date: *14/1/2018*		Time: 180 minutes

Question number one: (30 Marks)

a. Discuss instruction format, then explain the Fetch- Execute life cycle. (5 Marks)

b. Following a bitmap picture file (5 Marks)



1. Find the bitmap representation to store that picture file.
2. Calculate the total number of bits needed for above bitmap.
3. Assuming a 64-shade grayscale resolution, Calculate the memory requirement for the scanned picture mentioned above in bytes.
4. Determine whether the above a bitmap file compressed or not?

c. Differentiate between: (5 Marks)

1. Time-Sharing and Distributed Systems.
2. Symmetric and Asymmetric multiprocessing model
3. CLI and GUI

d. Convert the following number to binary: $(0.8254)_{10}$ (5 Marks)

e. Find Second Complement of : 00101001 (5 Marks)

f. If A is 11101101 and B is 10110110, find: (5 Marks)

1. A & B, 2. A || B, 3. A ^ B, 4. !A

Question number two: (30 Marks)

a. Suppose you have a table that stores the USA counties about 260, for each county, its name (up to 30 characters in 8-bit ASCII), its state (a two-letter code), its population, and its median income (both as 64-bit numbers). How much space would the whole database take in both binary-style Bit, and GB? (10 Marks)

b. Choose the Most Correct Answer: (10 Marks)

1) Used to synchronize the timing of hardware components:
   a. CP, b. System Clock, c. Clock Pulse, d. a&c e. all true
2) The 2_leftshift operator of the number 00001000 is:
   a. 2, b. 4, c. 8, d. 32, e. 64
3) Small chip contained on motherboard that looks after BIOS files.
   a. Cash, b. DIMM, c. DDR2, d. ROM e. EDORAM
4) Keeps track of where a given instruction or piece of data is stored in memory.
   a. Accumulator, b. Address register, c. A storage register,
5) A set of wires connecting various computer units to pass and exchange information.
   a. Data bus, b. Address bus, c. Control bus, d. All true.
6) Which generation language does Assembly Language represent:
   a. Third, b. Fourth, c. First, d. Second e. Fifth
7) The domain name used for non-profit organization:
   a. .com, b. .org, c. .gov, d. .net e. a&b

c. Using MAR and MDR, write the required steps to: (5 Marks)

1. Load a location (A). 2. STORE a value (X) to a location (A).

d. What is meant by: Virtual Machines, Net-centric computing. (5 Marks)

Best Regards

Dr/Mai Ramadan

Kafrelsheikh University *Mathematics 1* *Time: 3 Hours*
Faculty of Computers& Information *First year*
The first semester exam (2017-2018) *Date : 27-12-2017*

Answer the following questions

1- (a) Find the solution set to the inequality $x^2+2x-15>0$.

(b) Let $f(x)=\sqrt{x+7}-\sqrt{x^2+2x-15}$. Find the domain of f.

2- (a) Let $f(x)=\dfrac{2x+1}{x^2+1}$. Find the range of f.

(b) Let ε and L be the ellipse and the line given by $2x^2+y^2=6$ and $x+2y-3=0$ respectively. Find $\varepsilon \cap L$.

3-(a) If $f(x)=x+1$ and $g(x)=\sqrt{x}$ Find the domain of (gof) .

(b) Let $f(x)=\dfrac{1}{x}$. Find $\lim\limits_{h\to 0}\dfrac{f(x+h)-f(x)}{h}$.

4- (a) Let $f(x)=\begin{cases}-1 & if\ x<0\\ 0 & if\ x=0\\ 1 & if\ x>0\end{cases}$

Determine whether f is continuous at 0 or not.

(b) Let $y=\dfrac{x^2+3x-4}{2x+1}$. Find $\dfrac{dy}{dx}$.

5- A particle moves along a line so that its velocity at time t is $v(t)=t^2-t$ (measured in meters per second). Find the displacement of the particle during the time period $1\le t\le 2$.

With my best wished
Prof. Dr. Osama Abo-Seida

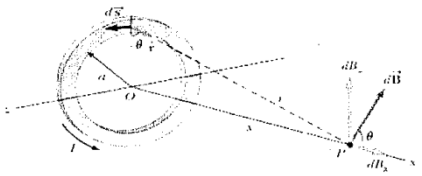
Kafrelsheikh University
Faculty of Science
Physics Department
First level (Faculty of Computers & Information)

(Exam in 1 page)

Time: 3rd h
Subject: PH:102
Mark: 60 Marks
Date: 24/12/2017
First Term

Answer The following Questions: (Each Question 10 Marks)

1. **Explain:** The polarization by Absorption and Malus's law?
2. **Deduce** the Magnetic Field Due to a Current in the Axis of a Circular Loop?



3. **(a) Write short notes about:** Length Contraction according to Special Theory of Relativity?

   (b) A two-slit interference experiment in which the slits are **0.200** mm apart and the screen is **1.00 m** from the slits. The **m=2** bright fringe is **9.49** mm from the central fringe. Find the wavelength (λ) of the light?

4. **(a) Define:** Huygens principle and Einstein's Postulates in relativity theory?

   (b) Find the first and the second dark fringes from Diffraction by a Single Slit?

5. **Write short notes about**: Meissner Effect, and two type of superconducting materials?

6. **(a) Explain:** The Ideal and Complete models (Approximations) of Diode?

   (b) Determine the forward voltage and forward current for each of the diode Ideal and Practical models. (V_{BIAS} = **10 V**, R_{LIMIT} = **1 KΩ**)

****End of Exam****
With My Best Wishes
Dr/ Walid Ismail