Оценочные материалы для промежуточной аттестации по дисциплине

Иностранный язык в профессиональной сфере

Код, направление подготовки	01.03.02 Прикладная математика и информатика
Направленность (профиль)	Прикладная математика и информатика
Форма обучения	Очная
Кафедра-разработчик	Кафедра лингвистики и переводоведения
Выпускающая кафедра	Кафедра прикладной математики

Типовые задания для контрольной работы
Типовые задания для контрольной работы

5 СЕМЕСТР

1. Identify these items:

1. It's used for reading and writing to removable magnetic disks.
2. It's used to input data through keys like a typewriter.
3. Its function is to control the timing of signals in the computer.
4. It's used to control all the operations in a computer
5. It's for holding instructions which are needed to start up the computer.
6. It displays the output from a computer on a screen
7. It's a kind of memory which provides extremely fast access for sections of a program and its data
8. Its function is to hold data read or written to it by the processor

2 Convert these instructions for fitting a new motherboard into a description in the Present Passive

Example:
Access the PC's system start-up program and note the hard disk's parameters.
The PC's system start-up program is accessed and the hard disk's parameters are noted.

1. Turn off the computer and open the case
2. Check the new motherboard to ensure it fits the system case.
3. Disconnect wires and cables and label them with tape.
4. Unplug all external peripherals
5. Take out the add-in cards

6. Remove the screws holding the motherboard
7. Lift the motherboard carefully from the case
8. Add the CPU and memory to the new motherboard
9. Insert the new motherboard
10. Replace the screws.
11. Replace cards and cables
12. Switch on the computer and monitor.

3 Complete each gap in this text with a suitable word from this list.

a) A	h) Efficiency	o) Expert
b) More	i) And	p) Enables
c) Features	j) Multimedia	q) Computers
d) Enhances	k) Getting	r) Security
e) Devices	l) Environments	s) Human
f) Systems	m) Educational	t) Example
g) Machine	n) Video	

Not only the computing equipment <1> smaller, it is getting more sophisticated. <2> are part of many machines and <3> that once required continual <4> supervision and control. Today, computers in <5> systems result in safer <6>, computers in cars improve energy <7>, and computers in phones provide <8> such as call forwarding, call monitoring, and call answering.

Multimedia <9> are known for their <10> and entertainment value – which e call edutainment <11> combines text with sound, <12> , animation, and graphics, which greatly <13> the interaction beteen user and <14> and can make information <15> interesting and appealing to people. <16> systems software <17> computers to 'think' like experts. Medical diagnosis expert systems, for <18>, can help doctors pinpoint <19> patient's illness, suggest further tests, <20> prescribe appropriate drugs.

6 СЕМЕСТР

1. Rewrite these warning and pieces of advice on netiquette according to the prompt:

1. Don't Leave the email subject in line blank. Avoid …
2. You must not send very large attachments without asking the recipient's permission. Never …
3. Don't use the same password all the time. … must not …
4. Avoid using capital letter; it's considered shouting. Don't …
5. Before joining anew online group, observe for a while. … should…
6. Check out the FAQ page before you ask questions. … good idea…
7. You must not email any information you want to keep secure. Never …
8. Don't leave a running machine unattended. … had better not…
9. Delete flames. Don't start a flame war … recommend…

10. Don't borrow from someone's website without asking permission. ... should not...

2 Complete these definitions with the correct participle of the verb given in brackets.

1. Telnet is an Internet service (enable) users to log on to theier computers at a distance
2. FTP is an Internet service (use) to download files from a server.
3. IRC is an Internet service (allow) users to chat in real time
4. The Web is an Internet service (make) webpages abailable to millions of users worldwide.
5. The internet is a huge number of computers (link) together.
6. A LAN is usually a network (connect) computers over a small distance such as within a company
7. CMC is a communication (use) computers.
8. A search engine is an Internet search tool (consist of) databases of information that can be searched using keywords or phrases.
9. Subject directories are hierarchically organized indexes (categorise) into subject areas.
10. A Gateway is a collection of hardware and software (enable) a network to communicate with a dissimilar network.

3 Complete each gap in this text with a suitable word from this list.

a) Best	h) Engine	o) Keywords
b) Search	i) Browse	p) Entire
c) Linked	j) Single	q) Cannot
d) Exclude	k) Miss	r) Sites
e) Combination	l) Hits	s) News
f) Web	m) Database	t) index
g) On	n) Which	

No search engine covers the <1> Web. The scale is too enormous. Meta search tools may cover forty percent at <2>. When you use a search <3>, you are searching a database. Keyword search engines build their own <4> of search items. They depend <5> sesarch robots which <6> the Web, stopping at each site to find <7> to add to their indexes. Most of them <8> every word they find in a document. These <9> engines can produce a huge number of <10> for any keyword you enter but many may have no relvance to your search.

Because search engines can only find <11> pages that are <12> to other websites or Usenet <13> articles, they cannot find <14> which stand alone. In addition, they <15> evaluate in any way the material they find. The result can be that you have a lrage amount of irrelevant and inappropriate hits and may <16> the most helpful site.

Searching for phrases or a <17> of key words is more effective than searching for <18> words. Most search engines offer advanced seasrch facilities <19> can be used to combine and <20> words and phrases from your search.

7 CEMECTP

1. Put the verbs in brackets in the correct form in this description of GPS

GPS helps drivers <1>FIND <\1> the quickest route and prevents walker <2> GET <\2> lost. It allows mapmakers <3> LOCATE <\3> a feature exactly. GPS is made up of satelites <4> ORBIT <\4> the earth combined with mapping software <5> BUILD <\5> into receivers. The receivers pick up signals from at least three satellites and use that information <6> CALCULATE<\6> their exact position. To prevent terrorists <7> USE <\7> the system for missile control, the US Defense Department <8> USE <\8> to build in some error but this is no

longer done. GPS is the basis for car navigation systems. If the driver goes off route, the system causes warning <9> BROADCAST <\9> in the car or makes a light <10> FLASH <\10> on and off.

2 Rewrite each of these statements using the certainity expression in brackets to produce a statement of similar meaning

1. GPRS phones may revolutionize the way we communicate (possible).
2. It is certain GPRS phones will provide faster Web access. (Certainly)
3. Networks will probably support GPRS phones efficiently. (Probable)
4. It is possible the next generation of mobile phones will be introduced next year (could)
5. The new phones could be a big disappointment. (might)

3 Rewrite each of these statements by replacing the words in italics with en-/-en or phrasal verbs of similar meaning.

1. *Make sure* the PC is disconnected before you remove the case
2. You can *make* the picture on your monitor *wider.*
3. Hackers *closed* Hotmail for five hours.
4. Although it is not recommended, most people *record* their passwords.
5. A gateway *makes* it *possible for* different kinds of networks to communicate.

4 Complete each gap in this text with a suitable word from this list.

a) About	h) divide	o) mail
b) Software	i) addresses	p) environment
c) Malicious	j) spread	q) boot
d) Executable	k) more	r) types
e) Common	l) infected	s) networks
f) Using	m) computers	t) macro language
g) run	n) virus	

Your computer could be <1> by many different viruses. There are probab;ly <2> than 30 000 in existence but only <3> 200 or 300 are present in sufficient numbers to be a threat to your PC. We can <4> viruses into a small number of basic <5>. Boot sector viruses infect a computer when you <6> it. File viruses infect <7> files and the system when the files are<8>. These are less <9> now that PCs mainly run Windows.

The most common viruses now work in the Windows <10> and are spread using <11>, including the Internet. Most are macro-viruses. Melissa is an example. Melissa <12> using email. It operated by <13> the Visual Basic for Applications (VBA) <14> to automate the Microsoft Outlook <15> client to send itself to the first fifty <16> in the Outlook address book. In this way it infected millions of <17> in a few days.

A worm is not a <18> but it is <19> program. It infiltrates your system's network <20> and from there infects other systems.

8 CEMECTP

1. Make a sentence using words given in brackets

1. Ability to provide leadership to junior team members. (Must)
2. Excellent communication skills. (essential)

3. Ability to manage a team. (Have to)
4. Positive and flexible attitude. (need to)
5. Good resource planning skill. (must)

2 Fill in the blanks with *can* or *be able to*

6. Laser light ___ travel faster than an electric current.
7. In future, domestic appliances ____ report any breakdowns for repair
8. Marconi ____ send a radio signal across the Atlantic.
9. Professor Warwick had a chip fitted into his arm which ____ open doors and switch on computers as he approached.
10. Imagine _____ to access the Internet from a kitchen appliance.

3 Rewrite these sentence to emphasize the words in *italics*.

6. *The Intel Pentium* was introduced in 1993.
7. Microsoft launched Windows XP *in 2001*.
8. *The WAP phone* was the first mobile phone to make internet access possible.
9. Moore's Law is named after *Gordon Moore*
10. We need *an alternative to silicon*.
11. *The GPRS phone* became available in 2001
12. *Laser light* can switch faster than electric current.
13. Intel *designed the first microprocessor* in 1971.
14. Wap phone users didn't like *waiting for Internet Access*.
15. I don't like *electronic books*

4 Complete each gap in this text with a suitable word from this list.

u) Alternatives	bb) Chip	ii) limit
v) Predictions	cc) Before	jj) computing
w) Number	dd) Principle	kk) between
x) Current	ee) Person	ll) soon
y) But	ff) Designers	mm) piece
z) Switch	gg) Cheaper	nn) even
aa) Possibility	hh) would	

A chip is basically millions of switches on a tiny <1> of silicon. Each <2> is a transistor. Gordon Moore, the co-founder of Intel, was the first <3> to predict that the <4> of transistors on a standard size of silicon <5> double every eighteen months. This <6> became known as a Moore's Law. 's not a law of physics <7> developments have shown it to be broadly true. With the number of transistors on a <8> now approaching fifty million, <9> the most optimistic processor designers are beginning to realize that limits will <10> be reached.

The problem is that there is a natural <11> on the number of transistors which can be squeezed onto a chip <12> it melts or the operation of the transistors becomes unpredictable. By the 20, chip <13> expect that processors will be built ith 0,07-micron technology. That means the distance <14> circuits will be 700000th of a millimeter. To reach even that stage will cost billions of dollars.

So designers have to look at <15> to silicon. Optical computing works on the <16> that laser light is faster than an electric <17>. Quantum Computers would permit a kind of mega parallel <18> Computers which use superconductivity are another <19> Fine grained multiprocessing, which consists of thousands of simple processors working together, may be a <20> alternative. Even biological computing using DNA molecules is being considered.

Типовые вопросы к зачету

5 СЕМЕСТР

В соответствии с рабочей программой дисциплины промежуточная аттестация проводится в форме ЗАЧЕТА. Билет состоит из 2 вопросов:

1. чтение и перевод текста по специальности

2. реферирование научной статьи

1. Пример текста для оценки чтения и перевода (УК 4.3)

CutiePi review: A Raspberry Pi 4 tablet

By Rob Zwetsloot. Posted on 6th of May 2022. Source:
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While one of its headline features is that it's very thin (14mm thin to be exact, thinner than a Raspberry Pi 4), it doesn't skimp on screen size with an 8-inch IPS LCD touchscreen running at 1280x800. It's bright and very responsive, the latter thanks to a Compute Module 4 being built into the tablet – in fact this is how it can be so thin while still having the power of Raspberry Pi 4.

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On a final hardware note; we adore the handle on it. And it's not just a handle, it's a stand in a similar way to smart covers. You can have it propped up near vertical in landscape to use like a display with keyboard attached, or raised at

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CutiePi uses its own custom graphical interface, known as CutiePi Shell. It's based on a browser, and allows for easier use of the tablet as a touchscreen computer – much in the way that an iPad or other tablet has its own custom

display. The onscreen keyboard is very good and responsive, and the orientation of the screen will change as you move it. It's a really nice and clean experience, and has the usual trappings you'd expect, like the ability to turn off the display with a button, a lock screen, and a rotation lock.

You can also press a button and return to Raspberry Pi OS's default desktop, where it will function just like any other Raspberry Pi.

A lack of GPIO pins does mean you're limited in the digital making you can do either way. For pure code it's great, and far more hackable than any other tablet, however if you want to connect it to the real world it's a bit trickier.

For what it may lack in GPIO it makes up for in media playing. YouTube and other video services run great, and the speaker is decent. With a few parental controls this could be a great budget tablet for younger people wanting to explore coding.

VERDICT

8/10

While lacking in ports it makes up for a lot with its user-friendly design and interface. Great for younger makers.

SPECS

Processor: BCM2711, Quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5 GHz (Raspberry Pi Compute Module 4, Wireless, 2GB Lite (CM4102000))

Display: 8" IPS LCD (1280x800)

Connectivity: WLAN 2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac, Bluetooth 5.0, BLE, 1x USB type-A, USB type-C, 1x micro HDMI 1x microSD slot

Dimensions: 206(W) x 134(H) x 14(D) mm

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Rob is amazing. He's also the Features Editor of The MagPi, a hobbyist maker, cosplayer, comic book writer, and extremely modest.

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CutiePi uses its own custom graphical interface, known as CutiePi Shell. It's based on a browser, and allows for easier use of the tablet as a touchscreen computer – much in the way that an iPad or other tablet has its own custom display. The onscreen keyboard is very good and responsive, and the orientation of the screen will change as you move it. It's a really nice and clean experience, and has the usual trappings you'd expect, like the ability to turn off the display with a button, a lock screen, and a rotation lock.

You can also press a button and return to Raspberry Pi OS's default desktop, where it will function just like any other Raspberry Pi.

A lack of GPIO pins does mean you're limited in the digital making you can do either way. For pure code it's great, and far more hackable than any other tablet, however if you want to connect it to the real world it's a bit trickier.

For what it may lack in GPIO it makes up for in media playing. YouTube

and other video services run great, and the speaker is decent. With a few parental controls this could be a great budget tablet for younger people wanting to explore coding.

VERDICT

8/10

While lacking in ports it makes up for a lot with its user-friendly design and interface. Great for younger makers.

SPECS

Processor: BCM2711, Quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5 GHz (Raspberry Pi Compute Module 4, Wireless, 2GB Lite (CM4102000))

Display: 8" IPS LCD (1280x800)

Connectivity: WLAN 2.4 GHz, 5.0 GHz IEEE 802.11 b/g/n/ac, Bluetooth 5.0, BLE, 1x USB type-A, USB type-C, 1x micro HDMI 1x microSD slot

Dimensions: 206(W) x 134(H) x 14(D) mm

ABOUT THE AUTHOR

Rob Zwetsloot

Rob is amazing. He's also the Features Editor of The MagPi, a hobbyist maker, cosplayer, comic book writer, and extremely modest.

Типовые вопросы к зачету с оценкой

8 СЕМЕСТР

В соответствии с рабочей программой дисциплины промежуточная аттестация проводится в форме ЗАЧЕТА С ОЦЕНКОЙ. Билет состоит из 2 вопросов:

1. чтение и перевод текста по специальности
2. реферирование научной статьи

1. Пример текста для оценки чтения и перевода (УК 4.3)

CutiePi review: A Raspberry Pi 4 tablet

By Rob Zwetsloot. Posted on 6th of May 2022. Source: https://magpi.raspberrypi.com/articles/cutiepi-review-a-raspberry-pi-4-tablet

Raspberry Pi-based tablets are a bit of an untapped market in our opinion. While it's definitely fun to make your own, having one prebuilt and ready to go means you can immediately get to work on any number of coding projects. And even if you don't quite want it for digital making, it could make for a fun tablet. CutiePi (£176/$229) here is a bit of a balance of both.

While one of its headline features is that it's very thin (14mm thin to be exact, thinner than a Raspberry Pi 4), it doesn't skimp on screen size with an 8-inch IPS LCD touchscreen running at 1280x800. It's bright and very responsive, the latter thanks to a Compute Module 4 being built into the tablet – in fact this is how it can be so thin while still having the power of Raspberry Pi 4.

There are some sacrifices made to the input and output ports because of this. There's only one USB port, one micro HDMI out port, and no GPIO or headphone ports. While USB ports can be extended with a hub, this adds extra space to something you'd want to be compact. A camera is installed on the rear though, much like other tablets, and you can easily access the microSD card to update the operating system from another computer.

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2.Пример текста для реферирования (УК 4.2)

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