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**JINJA JOINT EXAMINATIONS BOARD**

**MOCK EXAMINATIONS 2019**

**MARKING GUIDE**

**840/1 COMPUTER STUDIES**

**SECTION A: (20 MARKS)**

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **A** |  | **C** |  | **A** |  | **A** |
|  | **D** |  | **A** |  | **B** |  | **C** |
|  | **B** |  | **B** |  | **B** |  | **C** |
|  | **D** |  | **C** |  | **C** |  | **D** |
|  | **A** |  | **C** |  | **C** |  | **B** |

**SECTION B: (60 MARKS)**

*In this section, fill in the spaces provided for questions 21 to 26. This section is compulsory.*

1. (a). State**two** characteristics of computing devices developed during the mechanical

era. (02 marks)

* *They had moving parts.*
* *They had a set of gears.*
* *They had a set of dials.*
* *Very much limited memory for storage and recall.*
* *Most of them were made to order (one – instruction at a time).*

(b). Explain the following terms used in relation to a good computer.

(i). **Artificial Intelligence**. (02 marks)

* *Ability for a good computer to behave and reason like a human being by taking decision.*

(ii). **Automation**. (02 marks)

* *Ability of a computer to perform tasks with limited supervision from the user.*

(c). State **two** causes of computer system failure. (02 marks)

* *Use of aging hardware components.*
* *Computer virus.*
* *Acts of God e.g. floods, lightening, e.t.c.*
* *Power failure (over voltage, under voltage, power spikes, brownout, black out).*
* *Vandalism of equipment.*
* *Theft of equipment.*
* *System hacking and related computer crime.*

(d). Write down **two** buttons on a computer’s keyboard that work as **ON** and **OFF**

switch. (02 marks)

* *Caps Lock.*
* *Num Lock.*
* *Scroll Lock.*

1. (a). State any **two** parts that make up the Central Processing Unit. (02 marks)

* *Arithmetic logic unit.*
* *Control unit.*
* *Register.*

(b). (i). Give **two** characteristics of impact printers. (02 marks)

* *They are very slow in operation.*
* *Physical contact between printing medium and mechanism.*
* *Output is of poor quality.*
* *Makes a lot of noise due to the embossing mechanism.*
* *Can work in dusty environment.*

(ii). State **one**reason for supplying computer software on a CD-ROM. (01 mark)

* *It is portable.*
* *Cheaper in cost.*
* *Has a faster access speed.*
* *Holds relative large amounts of software.*
* *Rarely affected by computer viruses.*
* *Content is kept permanent.*

(c). Describe **one** use of a **Control Panel** during software installation. (02 marks)

* *It provides a user with the ability to view and change system settings.*

(d). (i). Give **two** reasons for having a partitions in a hard disk. (02 marks)

* *To have a better way of organizing data and files on the drive.*
* *To enable a user run different operating systems on one PC.*
* *To reduce the threats of data loss.*
* *To have a more convenient approach for backing up and restoring data.*
* *To have more selective options when encrypting drive.*
* *To improve performance.*

(ii). Identify the role of **Random Access Memory** in the booting process of a

computer. (01 mark)

* *It provides primary storage facility to the operating system.*

1. (a). Give **two** characteristics of number data type as used in a spreadsheet program. (02 marks)

* *It is aligned to the right hand side of a cell.*
* *It is used in a calculation.*
* *When converted into text, it will align to the left of the cell.*

(b). (i). If I select a cell range **A4:E15**, how many cells have I selected? (01 mark)

* *60 cells.*

(ii). State any **two** examples of cell referencing techniques used in an electronic

spreadsheet. (02 marks)

* *Mixed cell referencing.*
* *Absolute cell referencing.*
* *Relative cell referencing.*

(c). Explain the following field properties as used in database design.

(i). **Caption**. (02 marks)

* *A label text that is displayed for this field by default in forms, reports, and queries.*

(ii). **Input mask**. (02 marks)

* *Displays editing characters to guide data entry. For example, an input mask might display a dollar sign ($) at the beginning of the field.*

(d). Give **one** requirement of a good primary key field in a database table. (01 mark)

* *Never null or empty.*
* *It must be unique.*
* *It does not change.*

1. (a). State **two** qualities of a good computer network. (02 marks)

* *should have large storage facilities.*
* *Should have a fast processor speed.*
* *Should have large amount of RAM.*
* *Should have appropriate network operating system.*

(b). Give **one** function of the following network protocols:

(i). **Internet Protocol (IP).** (02 marks)

* *It enables a computer or device to be identified on across a network.*

(ii). **Hyper Text Transfer Protocol**. (02 marks)

* *It defines how messages are formatted and transmitted, and what actions Web servers and browsers should take in response to various commands.*

(c). Give **two** activities that are carried out by a webmaster of an organisation. (02 marks)

* *He creates, designs websites.*
* *He updates content in the site.*
* *He changes site layout and navigation.*
* *He hosts webpages.*
* *He troubleshoots websites by cleaning viruses and faulty links and codes.*
* *He markets and advertises the website.*

(d). Identify the possible actions that would be taken when the following HTML

statements are written and preview in an HTML editor.

(i). **<u>I love computer studies</u>** (01 mark)

* *Thestatement***I love computer studies***is***underlined**.

(ii). **<marquee behavior = “alternate”>I love computer studies</marquee>** (01 mark)

* *The statement I love computer studies will move across the screen from right to left continuously.*

1. (a). Describe the following as used in a word processor.

(i). **Text highlight**. (02 marks)

* *Refers to the selection of text to be prepared for further commands from the user.*
* *Refers to placing a background colour behind selected text in a word processor.*

(ii). **Page orientation**. (02 marks)

* **Page orientation***is the direction in which a document is displayed or printed.*

(b). State any **two** document referencing facilities that are found inside an

electronic word processor. (02 marks)

* *Footer.*
* *Footnote.*
* *End note.*
* *Page numbering.*
* *Line numbering.*
* *Table of contents.*
* *List of figures.*

(c). State **two** advantages of using a presenter view in a class presentation. (02 marks)

* *Enables the user to edit a slide while in slideshow view.*
* *Enables the user to view speaker notes to the presenter.*

(d). Give **two** specific data sections that a note page when printed can display

compared to a slide mode print. (02 marks)

* *Speaker notes section.*
* *Slide printed in a single handout.*

1. (a). Define a **computer application program**. (02 marks)

* *A compute program designed to perform a specific end user task.*

(b). State **three** factors to consider before buying a software program for use. (03 marks)

* *Compatibility*
* *Functionality*
* *Price*
* *Credibility*
* *User Friendliness*
* *Agility*
* *Exit Strategy*

(c). (i). Give **one** advantage of using a compiler by a programmer. (01 mark)

* *Is converts source code into executable files.*
* *It helps the programmer to identity errors before making an executable file.*
* *It helps the user to know the line where a syntax error is.*

(ii). What is a **source code**? (02 marks)

* *It refers to a computer program that is not yet compiled.*
* *A computer program written in high level language using a language processor not yet compiled into an executable file.*

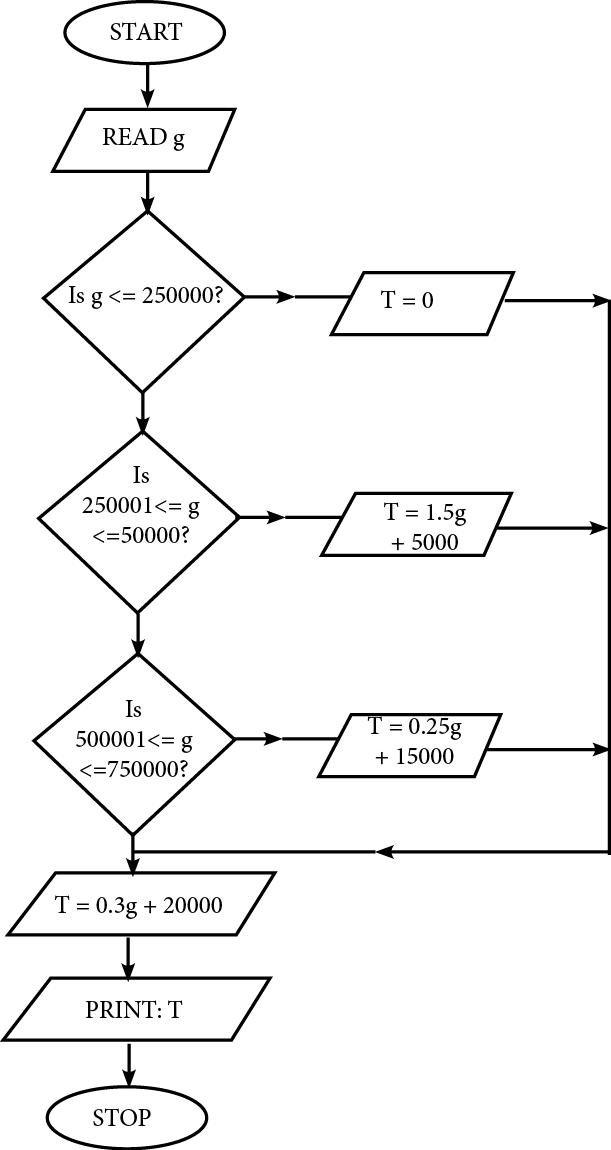
**SECTION C: (20 MARKS)**

*Attempt only one question from this section.*

1. (a). Outline **four** characteristics of a good pseudo code. (04 marks)

* *The statement must be short, clear and readable.*
* *The statements must not have more than one meaning i.e. should be unambiguous.*
* *The pseudo code lines should be clearly outlined and indented clearly*
* *A pseudo code should show clearly the start and stop of executable statements and the control structures (to be discussed later in the section)*

(b). A flow chart showing tax payable for each income bracket. (16 marks)



1. Describe **five** computer networking devices you would use to set up a local area network for an organisation. (20 marks)

* *Network Hub.*
* *Network Switch.*
* *Network Router.*
* *Bridge.*
* *Repeater.*
* *Gateway: Firewall:*
* *Network interface card (NIC).*

1. (a). Outline **five** causes of computer failure in a laboratory. (10 marks)

* *Voltage spike.*
* *Circuit board fails with no visible indication of damage.*
* *Failure to load software upgrades.*
* *Failure to keep virus protection up to date.*
* *Inadequate cooling.*
* *Loss of Power.*
* *Storage defective.*
* *Hardware vandalism.*
* *Poor handling of equipment.*
* *Computer crime like virus, hacking, piracy, e.t.c.*

(b). Explain **five** ethical issues computer users should be concerned about while in a

computer laboratory. (10 marks)

* *Unauthorized access.*
* *Software piracy.*
* *Information privacy.*
* *Information accuracy.*
* *Intellectual property rights.*
* *Code of conduct.*

**END**