## 國立彰化師範大學 102 學年度 碩士班招生考試試題

系所: 資訊管理學系數位內容科技與管理碩士班

科目:<u>計算機概論</u> 共2頁,第1頁

_	、單選題(40%,每題4%)
1.	uses the technique developed by human eyes to find the depth of the object.
	(A) Segmentation (B) Image processing (C) Stereo vision (D) Edge detection (E) Multi-touch
2.	In, the main program sends the value of the parameter to the corresponding parameter in the subprogram.
	(A) pass by reference (B) pass by value (C) pass by address (D) call by reference (E) one of the above
3.	A is a computer program that is used to calculate rendering effects on graphics hardware.  (A) software agent (B) shader (C) sort (D) multimedia (E)none of the above
4.	Which of the following encoding techniques is a lossless data compression method?  (A) JPEG (B) MPEG (C) MP3 (D) ZIP (E) None of the above
5.	VM is the software that runs the apps on Android devices.  (A) Java (B) Dalvik (C) Google (D) Ada (E) None of the above
6.	The is the fastest memory in a computer.  (A) solid state disk (B) cache memory (C) virtual memory (D) DVD (E) register
7.	A computer uses three phases of fetch, decode and execute for each instruction. Modern computers use a technique called to improve the throughput of instruction execution.  (A) Paging (B) Caching (C) Pipelining (D) Segmentation (E) None of the above
8.	Which physical network topology uses a hub or switch?  (A) ring (B) mesh (C) bus (D) star (E) none of the above
9.	In developing a program, documentation should be done  (A) as the last step (B) throughout the process (C) only during the design phase (D) only to Explain errors (E) all of the above.
10.	is an object oriented property that permits an object to use its own methods to act on message.  (A) Overloading (B) Inheritance (C) Encapsulation (D) Polymorphism (E) None of the above

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☆☆請在答案紙上作答☆☆

科目:<u>計算機概論</u> 共2頁,第2頁

二、填空題(30%, 每題 5%)
1. GPU (In Game Technology) stands for Processing Unit.
2. OpenGL (in Game Programming) stands for Open Library.
3. JNI (in Android development) stands for Java Interface.
4. GUI (in Operating System) stands for Graphical User
5. OOP (in Programming) stands for Oriented Programming
6. HDFS (in Cloud Computing) stands for Hadoop File System.
三、問答題(30%)
1. Write down the running result of the following Java program (20%)
public class CrazyMath {
<pre>public static void main(String[] args) {</pre>
int $A = 0xB5$ ;
int $B = 0x3D$ ;
System.out.println( $"A+B = "+ (A + B)$ );
System.out.println( $"A-B = "+ (A - B)$ );
System.out.println( $^{\prime\prime}A\&B = ^{\prime\prime} + (A\&B)$ );
System.out.println( $ A B =  +(A B)$ );
}
}
2. Big data is becoming normal in current information technology. Data are often several orders of Tera or Peta bytes. (10%)
(A) One Peta bytes = $10^{\square}$ bytes
(B) Write down an application or example of "Big Data" and explain it in detail.