**杨凌职业技术学院文理分院2019年教师招聘面试**

**英语教师岗位面试要求及资料**

**Materials for English Interview**

Now you are planning to become a new teacher of our college, so you will be asked to finish a trial lecture at the interview. There are two parts you should finish. **(20 minutes)**

**Part One**

**Directions: Here is a passage for you. Please give a lecture about it with the help of courseware you have made. (20 minutes)**

**Cultural Differences**

As we all know, different countries have different culture.“Culture is the collective programming of the mind which distinguishes the members of one category of people from another.”  
 It is inevitable that the cultural difference has impact on business. For example, when a company is having meeting, the word “table” they mention in American English means to put something on the agenda, but in British English it means to put something off the agenda. This example indicated how the culture affects the business.  
 There are four cultural dimensions that were defined in Hofstede’s research : power distance, uncertainty avoidance, individualism and masculinity.  
 The most significant influence in cultural difference is the power distance.“It would condition the extent to which employees accept that their boss has more power that have and the extent to which they accept that their boss’s opinions and decisions are right because he or she is the boss.”Among most oriental corporate cultures, there is hierarchism reasons, great centralization, sometimes called ‘power-oriented culture’, due to the historical reasons. That is a high power distance culture that mangers make the decision and superiors appeal to be entitled more privileges. Their decision always close supervision positively evaluated by subordinates. In this situation, it is not be regarded if subordinates have a disagreement with their managers.

**Part Two**

In this part, you will be given two tasks in order to test your comprehensive ability in using English. **(10 minutes)**

**（第二部分具体内容抽签前提供）**

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**数学教师岗位面试要求及资料**

1、试讲：（20-25）

根据提供的知识点讲义，制作PPT，讲解20-25分钟，要求有理论、有例题。（讲义附后）

2、综合能力考查

根据现场提供的资料，建立简单的数学模型，并进行5分钟左右的讲解，并接受评委询问。

（第二部分资料现场抽取）

第一部分：导数概念，时间25分钟。可根据时间自由选择案例。仅讲到定义（含简单举例）

**3.1 导数的概念**

**教学过程: 2.1.1 实例分析**

1. **变速直线运动的速度.**

例1. 已知物体作自由落体运动,运动方程为 ,求其在任意时刻t0的瞬时速度 v0.

解: 给时间t在t0时刻以微小增量,则有从t0时刻到时刻这一段时间内的路程增量为 

因而平均速度为

，令 ,

可得瞬时速度

.

一般的,设变速直线运动方程为:, 则其在任意时刻t0的瞬时速度 :

v0 = 

1. **切线的斜率**

例2. 已知曲线上任意一点M0的坐标为, 求其在M0点处切线的斜率.

解: 如图, 给自变量x在点x0处以微小增量,连接M0N,则割线M0N的斜率为

,

显然,当动点N沿曲线无限接近于M0时,割线的倾斜角无限接近于切线M0T的倾斜角,

则割线M0N斜率的极限 就是曲线在M0点处的斜率. 即有



上述两个问题,虽然意义不同,但从抽象的数量关系看,都可归结为: 函数增量与自变量增量的比值,当自变量增量趋向于0时的极限. 于是可引出导数的定义.

* + 1. **导数的概念**

定义2.1 设函数在点的某个邻域内有定义, 当自变量在处取得增量时,函数亦取得相应的增量



如果当 时,



存在，则称此极限值为函数在点的导数. 记作:

 , 或 , 或 .

并称函数在点可导; 否则,称函数在点不可导.

例3求函数在处的导数.

解给自变量在处以增量,则函数相应的增量为



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于是

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故有

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即

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