

机密★启用前

2024年10月高等教育自学考试全国统一考试

化学工程专业英语

(课程代码 11254)

注意事项:

1. 应考者必须按试题顺序在答题卡(纸)指定位置上作答,答在试卷上无效。
2. 涂写部分、画图部分必须使用2B铅笔,书写部分必须使用黑色字迹签字笔。

一、将下列英文单词翻译成中文:本大题共10小题,每小题2分,共20分。

1. purity
2. sensor
3. ester
4. modeling
5. consumption
6. silicon
7. ozone
8. nickel
9. sulphur
10. evaporator

二、将下列中文词语翻译成英文:本大题共10小题,每小题2分,共20分。

11. 溶剂
12. 阀门
13. 化学键
14. 修正
15. 混合物
16. 流体

17. 产品
18. 质子
19. 质量
20. 进料

三、将下列短语英汉互译:本大题共10小题,每小题3分,共30分。

21. Modern synthetic fibers
22. Atmospheric chemistry
23. The Haber process for ammonia synthesis
24. The amount of calcium chloride
25. The first law of thermodynamics
26. 化学工业
27. 抗腐蚀性
28. 先进聚合物材料
29. 轻馏分
30. 动力学研究

四、将下列段落翻译成中文:本大题共2小题,每小题5分,共10分。

31. Biological transformation of nitrogen into useful chemicals is embarrassing for the chemical industry, since all the effort of all the industry's technologists has been unable to find an easy alternative to this.
32. Many of these unit operations have certain fundamental and basic principles or mechanisms in common. For example, the mechanism of diffusion or mass transfer occurs in drying, absorption, distillation, and crystallization. Heat transfer occurs in drying, distillation, evaporation, and so on.

五、将下列段落翻译成英文:本大题共2小题,每小题5分,共10分。

33. 我们可以将化学工业部门分成两种类型:产量较高的部门和产量较低的部门。
34. 所有的吸附过程都有一个特点:对要处理的被吸附物质而言,吸附剂的吸附能力是有限的。

六、填空题：本大题共 10 小题，每小题 1 分，共 10 分。从所列出的 12 个单词中选择恰当的单词填写入下面的空格中，仅需从 12 个单词中选出 10 个。

Chemical engineering is above all (35)_____ on the chemical sciences, such (36)_____ physical chemistry, chemical thermodynamics, and chemical kinetics. In (37)_____ so, however, it does not simply (38)_____ their findings, but (39)_____ them to bulk chemical processing. The principal objectives that (40)_____ chemical engineering apart from chemistry as a pure science, is “to (41)_____ the most economical route of operation and to (42)_____ commercial equipment and accessories that (43)_____ it best of all”. Therefore, chemical engineering is (44)_____ without close ties with economics, physics, mathematics, cybernetics, applied mechanics, and other technical sciences.

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