### 上海交通大学在线考试诚信承诺书

### SJTU Online Examination Honor Code Letter

考试不仅是对学习成效的检查, 更是对道德品质的检验。自觉维护学校的考风考纪, 营造公平、公正的考试环境是全体同学的共同责任和义务。特别在疫情防控的特殊时期, 更应强化自律意识, 恪守诚信, 拒绝舞弊, 做一名诚实守信的新时代大学生, 用诚信的考试构筑诚信的人生。

Examination is the evaluation of both learning effect and morality. It is the responsibility and obligation of all students to consciously maintain the school's common examination practice, abide by the discipline and create a fair and just examination environment. Especially in the special period of epidemic prevention and control, we should strengthen the consciousness of self-discipline, abide by the integrity, refuse to cheat, be an honest and trustworthy college student in the new era, and build an honest life from the integrity test.

#### 我郑重承诺 I solemnly promise:

- (1)本人将履约践诺,知行统一;遵从诚信规范,恪守学术道德;自尊自爱, 自省自律。I will fulfill my promise, unify between knowledge and action, abide by the rules of integrity, academic ethics, be self-respected and self-disciplined.
- (2) 在线考试过程中,自觉遵守学校和老师宣布的考试纪律(详见《上海交通大学本科生学生手册》中的《学生考试纪律规定》,沪交教【2019】28号),不剽窃,不违纪,不作弊。 In the process of online examination, I will consciously abide by the examination discipline announced by the school and the teachers (see the regulations on student examination discipline in the undergraduate student handbook of Shanghai Jiao Tong University, HJJ [2019] No. 28), and do not plagiarize, violate discipline or cheat.
- (3) 若违反相关考试规定和纪律要求, 自愿接受学校的严肃处理或处分。In case of violation of relevant examination regulations and discipline, students shall bear the serious treatment or punishment from the school.

承诺人 Committed by: 木物一凡

日期 Date (Y/M/D): 2022年 6月 6日

(20\_ 至 20\_\_\_ 学年 第\_\_\_学期)

班级号 <u>F1003601</u> 学号<u>\$1001</u>[9][080

姓名 <u>格-凡</u> 成绩 \_\_\_\_

课程名称 星子の片

我承诺, 我将严 格遵守考试纪律。

题号					
得分					
批阅人(流水阅 卷教师签名处)					

一、校空 (含氧下板有下秒气)

1. 
$$\frac{h}{\sqrt{2mue}}$$

$$\frac{1}{2}my^{2} = Ne \qquad \Rightarrow P = \sqrt{2}mE = \sqrt{2}mUe$$

$$\Rightarrow \lambda = \frac{h}{P} = \frac{h}{\sqrt{2}mUe}$$

2. 
$$\sqrt{6}h$$
  $2h$   $\frac{\sqrt{3}}{2}h$ 

$$-\frac{1}{n=3} \frac{2h}{l=2} \frac{\sqrt{3}h}{l=2} = \sqrt{l(l+1)} h = \sqrt{2x3}h = \sqrt{6}h$$

$$l = mh = 2h$$

$$S = \frac{\sqrt{3}}{2}h$$

J. 
$$\frac{b}{\lambda}$$
  $\nabla \frac{b^4}{\lambda^4}$   $\nabla \frac{b^4 R^2}{a^4 a^4}$ 
(0)  $\lambda \cdot 1 = b$   $\Rightarrow$   $T = \frac{b}{\lambda}$ 

(2) 
$$MO(1) = \nabla T^4 = \nabla \frac{b^4}{34}$$

(3) 
$$E = \frac{\nabla 7^4 \cdot 4 \pi R^4}{4 \pi d^2} = \frac{\nabla 6^4 R^4}{\lambda^4 d^2}$$

# 上 海 交 通 大 学 答 题 纸

(20\_ 至 20\_\_\_ 学年 第\_\_\_学期)

课程名称 \_\_\_\_\_ 星イの年

姓名 <u>木多一凡</u> 520021911080

8. 
$$\frac{hv}{c} = \vec{P} \cdot \omega \cdot \vec{\theta} + \frac{hv}{c} \cos \phi$$

$$\frac{4}{\lambda} = \frac{h}{c} = \frac{hv}{c}$$

$$= \mathcal{U} = \frac{h}{e} (\mathcal{V} - \mathcal{V}_0)$$

$$U_1 = \frac{h}{e} \left( \frac{C}{X_1} - \frac{C}{X_0} \right)$$

$$u = \frac{h}{e} (\hat{\chi}_{L} - \hat{\chi}_{O})$$

10. 
$$\left(-\frac{\hbar^2}{2m}\left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial x^2}\right) + mg \neq \right) \varphi(x) = E\varphi(x)$$

(20\_ 至 20\_\_\_ 学年 第\_\_\_学期)

课程名称 \_\_\_\_ 夏寸の片

姓名 柏 - 凡 520021911080

// 
$$\psi(t) = 0.6e^{-i\frac{60}{h}t}t + 0.8e^{-i\frac{250}{h}t}.$$
  $\psi_{i}$ 

$$M = \begin{pmatrix} EO & O \\ O & 2EO \end{pmatrix}$$

$$\Rightarrow ih \stackrel{?}{\Rightarrow} Ci(t) = Eo Ci(t) \Rightarrow Ci(t) = Cie^{-i\frac{Eo}{\hbar}t}$$

$$\Rightarrow c(t) = c_{10} e^{-i\frac{G_0}{\hbar}t}$$

$$ih \frac{\partial}{\partial t} C_1(t) = 2E0 C_1(t) \Rightarrow C_1(t) = C_1e^{-i\frac{2E0}{h}t}$$

= 
$$4(t) = C_{i}(t) \varphi_{i} + C_{i}(t) \varphi_{i}(1)$$
  
=  $0.6e^{-i\frac{60}{h}t} + 0.8e^{-i\frac{260}{h}t} \varphi_{i}(1)$ 

( 20\_\_ 至 20\_\_\_ 学年 第\_\_\_学期 )

课程名称 \_ 星子の中

姓名 <u>杨一凡</u> よ2002/19/1080

二· 计算段:

/ 
$$\psi(r, \theta, \psi) = \frac{r}{\sqrt{\hbar a} \sigma} e^{-\frac{r}{a \sigma}}$$

由方执 颐红.

(1) 电初版问版并签度 
$$\rho(r) = 47.7^{1}.[4180.40)^{1}$$
  $\int_{0}^{\infty} 42.7^{1}[41(r.o.41)]^{1}dr$   $= 47.7^{1}.\frac{1}{200.3}e^{-\frac{2r}{40}}$   $= 1$   $= \frac{4r^{1}}{4.3}e^{-\frac{2r}{40}}$ 

(i) 
$$\frac{d\rho(r)}{dr} = \frac{gr}{ao^3} e^{-\frac{2r}{4o}} - \frac{2r}{ao} \frac{4r^2}{ao^3} e^{-\frac{2r}{4o}}$$

$$= \frac{gr}{ao^3} e^{-\frac{2r}{4o}} - \frac{gr^2}{ao^4} e^{-\frac{2r}{4o}}$$

$$= \frac{gr}{ao^3} e^{-\frac{2r}{4o}} (1 - \frac{r}{ao}) = 0 = r = ao$$

= ) Bng + 120 r= 40

(3) 
$$\frac{T}{r^{2}} = \int y_{1}(r, \theta, \psi) \frac{1}{r^{2}} y_{1}(r, \theta, \psi) dx$$

$$= \int_{0}^{t\omega} y_{1}(r, \theta, \psi) \frac{1}{r^{2}} y_{1}(r, \theta, \psi) dx$$

$$= \int_{0}^{t\omega} y_{2} \frac{1}{r^{2}} \frac{1}{r^{2}} y_{1}(r, \theta, \psi) dx$$

$$= \int_{0}^{t\omega} y_{2} \frac{1}{r^{2}} \frac{1}{r^{2}} \frac{1}{r^{2}} dr$$

$$= \frac{1}{r^{2}} \frac{1}$$

2. 
$$\begin{bmatrix} \hat{F} \cdot \hat{6} \end{bmatrix} = \begin{bmatrix} \hat{I}\hat{x} + i\hat{I}\hat{y} \end{bmatrix}, \quad \hat{I}\hat{x} - i\hat{I}\hat{y} \end{bmatrix}$$

$$= \begin{bmatrix} \hat{I}\hat{x} + i\hat{I}\hat{y}, \hat{I}\hat{x} \end{bmatrix} - \begin{bmatrix} \hat{I}\hat{x} + i\hat{I}\hat{y}, i\hat{I}\hat{y} \end{bmatrix}$$

$$= \begin{bmatrix} \hat{I}\hat{x} \cdot \hat{I}\hat{x} \end{bmatrix} + \begin{bmatrix} i\hat{I}\hat{y} \cdot \hat{I}\hat{x} \end{bmatrix} - \begin{bmatrix} \hat{I}\hat{x} \cdot i\hat{I}\hat{y} \end{bmatrix} - \begin{bmatrix} i\hat{I}\hat{y} \cdot i\hat{I}\hat{y} \end{bmatrix}$$

$$= i \begin{bmatrix} \hat{I}\hat{y} \cdot \hat{I}\hat{x} \end{bmatrix} - i \begin{bmatrix} \hat{I}\hat{x} \cdot \hat{I}\hat{y} \end{bmatrix}$$

$$= -i\hbar \cdot i \cdot \hat{I}\hat{i} - i \cdot i\hbar \cdot \hat{I}\hat{i} = 2\hbar \hat{I}\hat{i}$$

$$= -i\hbar \cdot i \cdot \hat{I}\hat{i} - i \cdot i\hbar \cdot \hat{I}\hat{i} = 2\hbar \hat{I}\hat{i}$$

### 上 海 交 通 大 学 答 题 纸

(20\_ 至 20\_\_\_ 学年 第\_\_\_学期)

课程名称 \_\_\_\_\_\_ 星みの字

姓名 <u>梅一凡</u> \$2002.1911080

$$\begin{aligned}
& \begin{bmatrix} \hat{l}^{2} \cdot \hat{x} \end{bmatrix} = \begin{bmatrix} \hat{l}\hat{x}^{2} + \hat{l}\hat{y}^{2} + \hat{l}\hat{z}^{2}, & \hat{x} + \hat{l}\hat{l}\hat{y} \end{bmatrix} = 0 \\
& = \begin{bmatrix} \hat{l}^{2} \cdot \hat{l}\hat{x} \end{bmatrix} + i \begin{bmatrix} \hat{l}^{2} \cdot \hat{l}\hat{y} \end{bmatrix} = 0 \\
& \begin{bmatrix} \hat{l}^{2} \cdot \hat{k} \end{bmatrix} = \begin{bmatrix} \hat{l}^{2} \cdot \hat{l}\hat{x} \end{bmatrix} - i \begin{bmatrix} \hat{l}^{2} \cdot \hat{l}\hat{y} \end{bmatrix} = 0 \\
& = \begin{bmatrix} \hat{l}^{2} \cdot \hat{l}\hat{x} \end{bmatrix} - i \begin{bmatrix} \hat{l}^{2} \cdot \hat{l}\hat{y} \end{bmatrix} = 0 \\
& \text{Signature} \\
&$$

$$=\int_{0}^{\alpha}A^{2}X^{2}\left(\alpha-X\right)^{2}dX=1 \qquad =\int_{0}^{\infty}A^{2}\sqrt{\frac{30}{a^{5}}}$$

$$\text{disin 97.2}$$

 $\bar{E} = \int_{-\infty}^{+\infty} \Psi(X)^{*} \hat{h} \Psi(X) dX$  $\bar{E} - \bar{\mu} \bar{z} \hat{h} \bar{h} \bar{z} \hat{h} \hat{h} \hat{h} = 0 \le X \le a D$   $\bar{h} = -\frac{\hbar^{2}}{2\pi a} \frac{\partial^{2}}{\partial X^{2}}$ 

$$\begin{aligned}
& = \int_{0}^{a} Ax(a-x) \left(-\frac{h^{2}}{m} \frac{\partial^{2}}{\partial x^{2}}\right) \left(Aax - Ax^{2}\right) dx \\
& = -\frac{h^{2}}{2m} \int_{0}^{a} Ax(a-x) \cdot (-2A) dx \\
& = \frac{h^{2}A^{2}}{m} \int_{0}^{a} ax - x^{2} dx \\
& = \frac{h^{2}A^{2}}{m} \left(\frac{1}{a} + \frac{1}{2}ax^{2} - \frac{1}{3}x^{3}\right) = \frac{h^{2}A^{2}}{m} \cdot \left(\frac{1}{2}a^{3} - \frac{1}{3}a^{2}\right) = \frac{h^{2}A^{2}}{m} \cdot \left(\frac{1}{2}a^{3} - \frac{1}{2}a^{2}\right) = \frac{h^{2}A^{2}}{m} \cdot \left(\frac{1}{2}a^{2} - \frac{1}{2}a^{2}\right)$$

一) 电分积量的平均值的 
$$\bar{E} = \frac{5\pi^2}{ma^2}$$

( 20\_ 至 20\_\_\_ 学年 第\_\_\_学期 )

课程名称 \_\_\_\_\_\_星ナカヴ

姓名 <u>杨-凡</u> \$20021911080

4. 41= 章 131 (日·4) + 章 121(日·4) - ま 11-1 (日・0) 田され あ知。

しき 例 列 所 取 個 す 
$$\sqrt{3(3+1)} h^2 = \sqrt{3} h^4 = 12 h^4$$
  $\sqrt{2(2+1)} h^2 = \sqrt{5} h^4 = 6 h^4$   $\sqrt{1(1+1)} h^2 = \sqrt{2} h^4 = 2 h^4$ 

= 
$$p(2\sqrt{3}h) = \frac{4}{4}$$
  $p(\sqrt{6}h) = \frac{4}{4}$   $p(\sqrt{7}h) = \frac{4}{4}$ 

ほあ可能取伍 mn=h 2h 124. -h

$$\Rightarrow P(h) = \frac{4}{9} \quad P(2h) = \frac{4}{9} \quad P(-h) = \frac{1}{9}$$

$$L^{2}\Omega^{2}\Pi = L^{2} = 12h^{2} \times \frac{4}{9} + 6h^{2} + 2h^{2} + 2h^{$$

J. 的S厄米等为有 没有4=人4 drongly Mas

- (1)  $\int_{-\infty}^{+\infty} (41)^{*} \tilde{\Lambda} + d\tau = \int 41^{*} \lambda + 41 d\tau = \lambda \int 41^{*} x + 41 d\tau$   $\int_{-\infty}^{+\infty} (\tilde{\Lambda} + 41)^{*} + 41 d\tau = \int (1 + 41)^{*} + 41 d\tau = \lambda^{*} \int 41^{*} x + 41 d\tau = \lambda^{*} \int 41$ 
  - => 2 J4+4d1 = 2+ J4+41d2
  - => 人=人x 国山过丰化值的农农
- (2)  $\mathcal{A} \propto \mathcal{A} = \lambda_1 \mathcal{Q} \qquad \mathcal{A} \mathcal{U} = \lambda_1 \mathcal{U} \qquad \lambda_1 \neq \lambda_1$   $\int_{-\infty}^{\infty} \mathcal{U} \times \mathcal{A} \mathcal{Q} d\tau = \int \mathcal{U} \times \lambda_1 \mathcal{Q} d\tau = \lambda_1 \int \mathcal{U} \times \mathcal{Q} d\tau$   $\int_{-\infty}^{\infty} (\hat{A} \mathcal{U})^{*} \mathcal{Q} d\tau = \int \lambda_1 \times \mathcal{Q} d\tau = \lambda_1 \int \mathcal{U} \times \mathcal{Q} d\tau$
- =) How 4+ ADdr = Jto (A4) x ydr =, lisux ydr = 1 4x ydr
  - = (人にしい) /4×9 はこの ハキムレ : Jyx9はこの 国地祖を正文

### 上 海 交 通 大 学 答 题 纸

( 20\_\_ 至 20\_\_\_ 学年 第\_\_\_学期 )

姓名 <u>杨一凡</u> 520021911080

$$S(x, y) = A[1+(x)(\frac{1}{4})] \sin \frac{1}{4}$$

$$= A \sin \frac{1}{4} + \frac{1}{4} \sin \frac{1}{4}$$

$$= A \sin \frac{1}{4} + \frac{1}{4} \sin \frac{1}{4}$$

$$= A \sin \frac{1}{4} + \frac{1}{4} \sin \frac{1}{4}$$

$$= \int_0^a (A \sin \frac{1}{4} + \frac{1}{4} \sin \frac{1}{4})^2 dx = 1$$

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(2) E的可附取值的 
$$E_1 = \frac{\pi'h'}{2ma'}$$
  $E_2 = \frac{4\pi'h'}{2ma'}$   $E_1 = \frac{4\pi'h'}{2ma'}$   $E_2 = \frac{4\pi'h'}{2ma'}$   $E_1 = \frac{4\pi'h'}{2ma'}$   $E_2 = \frac{4\pi'h'}{2ma'}$ 

$$\overline{E} = p(E) E + p(E) E$$

$$= \frac{4}{5} \frac{x \cdot h}{2ma} + \frac{1}{5} \frac{4x \cdot h}{2ma} = \frac{8x \cdot h}{10ma} = \frac{4x \cdot h}{5ma}$$

$$\frac{\partial \varphi(t)}{\partial \varphi(x)} = \int \frac{du}{\partial m} \frac{\partial^{2}}{\partial x^{2}} \varphi(x) dx$$

$$\frac{\partial \varphi(t)}{\partial \varphi(x)} = \int \frac{du}{\partial m} \frac{\partial^{2}}{\partial x^{2}} \varphi(x) dx$$

=) 
$$f(t) = Ce^{\frac{i\pi}{2m}} \frac{\partial^{2}}{\partial x^{2}} \psi(x) \cdot t = \underline{B} \psi(0) = 0$$

=) 
$$\varphi(t) = e^{\frac{2\pi}{2m}} \frac{1}{\varphi(x)} \frac{\partial L}{\partial x} \psi(x)$$
. t

$$\frac{d^2}{dx} \varphi(x) = -\left(\frac{Ax}{a} \sin \frac{xx}{a} + \frac{2Ax}{a} \sin \frac{2xx}{a}\right)$$

$$= -\frac{Ax}{a} \left(\sin \frac{xx}{a} + 2 \sin \frac{2xx}{a}\right)$$

$$= (\ell(t) \cdot \psi(x) = \psi(xt)$$

世中中(X)= A[H (a)(答)]sin(答)=空[H (a)(答)]sin答

(20\_ 至 20\_\_\_ 学年 第\_\_\_学期)

姓名 <u>\*杨一凡</u> よ20021911080

 $P(X:T) = Y|(X:T)^{\frac{1}{2}}Y(1X:T)$   $= |Y|(X:T)|^{\frac{1}{2}}$   $= A^{\frac{1}{2}}[H \omega((な))]^{\frac{1}{2}}(J m 禁)^{\frac{1}{2}} = 芋(H \omega((な)))^{\frac{1}{2}}J m^{\frac{1}{2}}( 芸)$  = Y(t) 新病 な 試

(4) (1(xt) = A ((t) sin マ + を ((t) sin マ マ マ タ (t) ((t) = )

| 日地 12) 中的居里5 的问t 设有支承

7. 
$$M = \begin{pmatrix} EO & -A \\ -A & EO \end{pmatrix}$$

$$MC(t) = EC(t)$$

$$= \begin{pmatrix} EO - E & -A \\ -A & EO - E \end{pmatrix} C(t) = 0 = \begin{pmatrix} EO - E \end{pmatrix}^{2} = A^{2}$$

$$\begin{pmatrix}
A & -A \\
-A & A
\end{pmatrix}
\begin{pmatrix}
C(C) \\
C(C)
\end{pmatrix} = 0$$

$$\begin{cases}
A & C(C) - A & C(C) = 0 \\
-A & C(C) - A & C(C) = 0
\end{cases}$$

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$$\begin{cases}
A & C(C) - A & C(C) = 0 \\
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\end{cases}$$

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$$\begin{cases}
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\end{cases}$$

$$\begin{cases}
A & C(C) - A & C(C) - A & C(C) = 0
\end{cases}$$

$$\begin{cases}
A & C(C) - A & C(C) - A$$

本心性も Eo-A
20位本化でも to +A
20位本化でも to +A
20位本化でも to (一)

(2) BE= 60+AAV

$$\begin{pmatrix} -A & -A \\ -A & -A \end{pmatrix} c(t) = 0 \quad c(t) = \begin{pmatrix} c_i(t) \\ c_i(t) \end{pmatrix} \qquad \begin{array}{c} C_i + c_i = 0 \\ c_i^* + c_i^* = 1 \end{array}$$