

日本留学試験サンプル試験問題

日本語

問題は、記述・聴解・聴読解・読解の四つに分かれています。

記述問題

以下の二つのテーマのうち、どちらか一つを選んで書いてください（選んだテーマの番号を解答用紙に記入すること）。

日本で勉強するとき、ある人は、日本人が住んでいる普通のアパートに住む方が良いと言います。またある人は、外国人のための寮に住む方が良いと言います。あなたはどちらの意見に賛成しますか。理由を挙げて考えを400字程度で書いてください（句読点を含む）。

姿や能力を人間により近づけたコンピュータ・ロボットの研究が進んでいます。何年か先に、コンピュータ・ロボットがあなたの子どもの遊び相手として家に来てくれるようなサービスができたとします。費用は無料です。あなたはそのサービスに申し込みますか、申し込みませんか。理由を挙げて考えを400字程度で書いてください（句読点を含む）。

読解問題

次の手紙は、誰^{だれ}にあてて書いた手紙ですか。

その後、お元気ですか？ この間は本当に久しぶりにみんなに会えて、とても楽しかったです。みんなで撮った写真ができたので送ります。高校の卒業式以来だから5年ぶりだったけど、特にあなたの変わりぶりには驚きました。やはり会社に入ると違うものですね。先生は相変わらずお若くて、ほとんど変わっておられませんでしたが、懐かしい話などをしてあっという間に時間が過ぎてしまいました。

また5年後に会おう、という約束を楽しみにしています。それまで、お互いがんばりましょう。

さようなら。

1. 今お世話になっている先生
2. 会社の同僚
3. 高校時代の先生
4. 高校の時の友だち

EJU Sample Examination Questions

Mathematics 【Course 1 • Course 2】

(Select either of these courses and answer their questions only.)

Mathematics: Course 1

1. The fraction $\frac{1+\sqrt{5}}{-2+\sqrt{5}}$ is equal to .

- ① $-7-3\sqrt{5}$ ② $-7+3\sqrt{5}$ ③ $7-3\sqrt{5}$ ④ $7+3\sqrt{5}$

2. If the parabola

$$y = ax^2 + bx + c$$

passes through the three points $(-1, 9)$, $(1, 1)$, $(2, 3)$, then

$$a = \text{E}, \quad b = \text{FG}, \quad c = \text{H}.$$

3. Denote by a_n the n -th term of the arithmetic progression

$$1, 8, 15, 22, \dots,$$

i. It follows that $a_n = \text{A}n - \text{B}$.

ii. The sum of all terms from the first term to the 30-th term is .

Mathematics: Course 2

1. If a cubic equation of x with real coefficients

$$x^3 - ax^2 + bx - 4 = 0$$

has a complex root $1+i$, then $a = \text{A}$ and $b = \text{B}$.

2. If the lengths of two vectors \vec{a} , \vec{b} are 2, 3 respectively, and the angle formed by them is 60° , then the inner product of \vec{a} and \vec{b} is and the length of the

vector $\vec{a} + 2\vec{b}$ is $\sqrt{\text{IJ}}$.

3. For the function

$$y = x + 2 \sin x$$

its differential coefficient at $x=0$ is . Within the range of $0 \leq x \leq \pi$, $y'=0$ is

satisfied when $x = \frac{\text{J}}{\text{K}}\pi$.

EJU Sample Examination Questions

Japan and the World

The following passages (a)-(c) describe cities in Japan. Which of the following choices ①-④ is the correct combination of city names corresponding to the passages?

- (a) This city possesses a unique culture as can be seen from its historic sites, beginning with the restored *Shuri* Castle, and its distinct customs and manners, and language dialects. *Shuri* Castle was a king's residence for about 450 years from 1429, when the kingdom was united.
- (b) This city was constructed systematically and served as Japan's capital for about 1000 years since 794. Streets are set out like a chessboard and many temples or shrines are preserved along with areas of green.
- (c) This city became a port for international trade in 1867. It was not only the center of trade for Western Japan, but also a busy port of call for the many passenger ships which brought the world together. The city was also home to many foreign people.

	(a)	(b)	(c)
①	Naha	Kyoto	Kobe
②	Naha	Kobe	Kyoto
③	Kyoto	Naha	Kobe
④	Kyoto	Kobe	Naha

Answer the questions (1), (2) below which deal with World War I.

- (1) Which of the following choices ①-④ correctly identifies a political event which took place during World War I?
- ① India became independent from Britain.
 - ② The Qing Dynasty collapsed in China.
 - ③ Movement seeking independence from Japan became active in Korea.
 - ④ Clique or *hanbatsu* government was established in Japan.
- (2) Which of the following choices ①-④ correctly identifies social conditions in a given country during World War I?
- ① The first industrial revolution was taking place in Japan.
 - ② A communist nation was being established in China.
 - ③ Popular culture was flourishing in America.
 - ④ The first five-year plan was successful in the Soviet Union.

EJU Sample Examination Questions

Science

【Physics, Chemistry, Biology】

(Select two of these categories and answer their questions only.)

Physics

The following descriptions refer to atomic number and mass number. Choose the most appropriate one from the following ① ~ ④.

- ① Mass number is equal to the number of protons in nucleus.
- ② Mass number is equal to the number of neutrons in nucleus.
- ③ Atomic number is equal to the number of protons in nucleus.
- ④ Atomic number is equal to the number of neutrons in nucleus.

Chemistry

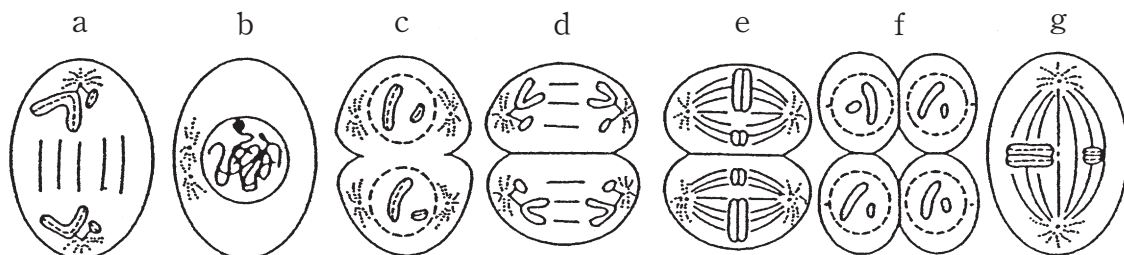
Precipitate is formed when hydrogen sulfide gas is passed through the solution of a certain metal ion, and precipitate is also formed when sulfuric acid is added to the same solution.

Choose the metal ion from ①~⑥.

- ① Ba^{2+}
- ② Al^{3+}
- ③ Fe^{2+}
- ④ Cu^{2+}
- ⑤ Zn^{2+}
- ⑥ Pb^{2+}

Biology

The diagram below shows the various stages of meiosis. Select the answer in ①~⑥ that gives the correct chronological order of these stages.



- ① $b \rightarrow a \rightarrow g \rightarrow c \rightarrow d \rightarrow e \rightarrow f$
- ② $b \rightarrow a \rightarrow g \rightarrow c \rightarrow e \rightarrow d \rightarrow f$
- ③ $b \rightarrow g \rightarrow a \rightarrow c \rightarrow d \rightarrow e \rightarrow f$
- ④ $b \rightarrow g \rightarrow a \rightarrow c \rightarrow e \rightarrow d \rightarrow f$
- ⑤ $b \rightarrow a \rightarrow c \rightarrow g \rightarrow d \rightarrow e \rightarrow f$
- ⑥ $b \rightarrow a \rightarrow c \rightarrow g \rightarrow e \rightarrow d \rightarrow f$