

Câu 1: B: Châu kính hội tụ

Câu 2: C: Máy bơm nước

Câu 3: Áp dụng quy tắc bàn tay trái
(A) từ sau đến trước

Câu 4: A: $R = \rho \frac{l}{S}$

Câu 5:

$$G = 2x = \frac{25}{f} \Rightarrow f = \frac{25}{2} = 12,5 \text{ cm}$$

Câu 6: $U_1 = 500000 \text{ V}$, $U_2 = 2500 \text{ V}$
 $N_1 = 10.0000$ vòng

$$\frac{U_1}{U_2} = \frac{N_1}{N_2} \Rightarrow N_2 = \frac{U_2 \cdot N_1}{U_1} = 500 \text{ vòng}$$

\Rightarrow A

Câu 7: C: Một ống dây dẫn bên trong có lõi sắt non

Câu 8: $U_{dm} = U \Rightarrow P = P_{dm} = 100 \text{ W}$

$$A = P \cdot t = 100 \cdot 5 \cdot 30 = 15000 \text{ Wh} \\ = 15 \text{ kWh}$$

\Rightarrow B

Câu 9:

$$P = U \cdot I \Rightarrow P_{dm} = U_{dm} \cdot I_{dm}$$
$$\Rightarrow I_{dm} = \frac{P_{dm}}{U_{dm}} =$$

Câu 9:

$I_{dm} = 0,3 A \Rightarrow$ đèn sáng bình thường thì $I = I_{dm} = 0,3$
biến trở mắc nối tiếp đèn $\Rightarrow I_d = I_b$

$$U_b = U - U_d = 12 - 3 = 9V$$

$$\Rightarrow I \cdot R_{NQ} = \frac{9}{0,3} = 30 \Omega$$

Câu 10:

$$R_1 = 8 \frac{l}{s} \Rightarrow R_2 = 8 \frac{\frac{l}{4}}{4s} = 8 \frac{l}{s} \cdot \frac{1}{16}$$

\Rightarrow giảm 16 lần

Câu 11:

$$f = 20cm \Rightarrow OF + OF' = 2f = 40cm$$

$\Rightarrow B$

Câu 12: $\frac{1}{f} = \frac{1}{d} - \frac{1}{d'} \Rightarrow f = \frac{d \cdot d'}{d' - d} = \frac{20 \cdot 60}{60 - 20} = 30$

\Rightarrow (A)

Câu 13: (D): Điện trở suất

Câu 14: Để giảm công suất hao phí trên đường dây n lần thì U phải tăng \sqrt{n} lần

\Rightarrow Giảm 16 lần $\Rightarrow U$ tăng $\sqrt{16} = 4$ lần.

$\Rightarrow U \uparrow 4$ lần $\Rightarrow N$ tăng 4 lần.

$\Rightarrow N_2 = 800 \times 4 = 3200$ W

Câu 15: C: Biến thiên.

[← Ghi chú](#)

11:11 ngày 4 tháng 6, 2023

Địa

- ☐ 16 C
- ☐ 17 D
- ☐ 18 B
- ☐ 19 B
- ☐ 20 B
- ☐ 21 A
- ☐ 22 B
- ☐ 23 D
- ☐ 24 C
- ☐ 25 C
- ☐ 26 A
- ☐ 27 A
- ☐ 28 B
- ☐ 29 D
- ☐ 30 C

A large, light blue watermark logo for 'F-SCHOOL' is centered on the page. The 'F' is stylized with a blue and orange gradient, and 'SCHOOL' is in a bold, blue, sans-serif font.



Câu 28: Đặc điểm nào sau đây **không** phải là đặc điểm của ngành công nghiệp ở Đồng bằng sông Hồng?

A. Công nghiệp chế biến lương thực thực phẩm là ngành trọng điểm.

☒ B. Giá trị sản xuất công nghiệp lớn nhất cả nước.

C. Hình thành sớm nhất Việt Nam.

D. Phát triển mạnh trong thời kì công nghiệp hóa, hiện đại hóa.

Câu 29: Căn cứ vào Atlas Địa lí Việt Nam trang 25, hãy cho biết địa danh nào sau đây là di sản văn hóa thế giới?

A. Điện Biên Phủ.

B. Bến Ninh Kiều.

C. Vịnh Hạ Long.

☒ D. Phố cổ Hội An.

Câu 30: Nguồn nhiên liệu chủ yếu của các nhà máy nhiệt điện ở miền Nam là

☒ A. dầu mỏ.

B. khí đốt.

C. than đá.

D. củi, gỗ.

PHẦN III: TIẾNG ANH

Câu 31: Mark the letter A, B, C or D on your answer sheet to indicate the correct answer to the following question.

The songs performed by *Trọng Tấn* make a deep...N.....on the audience.

A. impressive adj

B. impressively adv

☒ C. impression N

D. impress V

Câu 32: Mark the letter A, B, C or D on your answer sheet to indicate the correct answer to the following question.

The International Space Station (ISS), a large spacecraft, was launched.....1998.

☒ A. in +nam

B. on

C. at

D. to

Câu 33: Mark the letter A, B, C or D on your answer sheet to indicate the correct answer to the following question.

Should we try to.....every phong tục, truyền thống or tradition which is in danger of mất đi dying out?

A. entertain

B. practise

C. collect

☒ D. preserve bảo tồn

Câu 34: Mark the letter A, B, C or D on your answer sheet to indicate the correct response in the following exchanges.

Peter and Linda are in the office after work.

Peter: "Shall we eat out tonight at Diamond Restaurant?" - Linda: "....."

A. Sorry, I'm late

☒ B. That's a great idea → lời đề nghị

C. You're welcome

D. Here you are → đồng tình

Câu 35: Mark the letter A, B, C or D on your answer sheet to indicate the word whose underlined part differs from the other three in pronunciation.

A. behaved

☒ B. completed id/d

C. destroyed

D. discovered

Câu 36: Mark the letter A, B, C or D on your answer sheet to indicate the correct answer to the following question.

.....he tried his best, he couldn't finish his work on time.

☒ A. Although + S + V

B. However

C. Despite + N/Ving

D. Therefore

Câu 37: Mark the letter A, B, C or D on your answer sheet to indicate the correct answer to the following question.

They.....her since she left school. HTHT

A. don't see

☒ B. haven't seen

C. didn't see

D. hadn't seen

Câu 38: Mark the letter A, B, C or D on your answer sheet to indicate the sentence that has the same meaning as the sentence printed before it.

They don't work carefully, so they make many mistakes.

☒ A. If they worked carefully, they wouldn't make many mistakes. ĐK2

B. If they work carefully, they make many mistakes.

C. If they worked carefully, they make many mistakes.

D. If they work carefully, they wouldn't make many mistakes.

Câu 39: Mark the letter A, B, C or D on your answer sheet to indicate the word whose underlined part differs from the other three in pronunciation.

A. chapter

☒ B. chemical k/ tʃ

C. exchange

D. church

Câu 40: Mark the letter A, B, C or D on your answer sheet to indicate the correct answer to the following question.

It took me hours to.....this scientific book yesterday.

A. look out Coi chừng

☒ B. look for tìm kiếm

C. look back

D. look up tra cứu

Câu 41: Mark the letter A, B, C or D on your answer sheet to indicate the sentence that has the same meaning as the sentence printed before it.

"Would you like to come out to dinner with me tonight?" Jack said to Daisy.

- A. Jack asked Daisy going out to dinner with him that night. *↳ lời mời*
B. Jack said that Daisy go out to dinner with him that night.
C. Jack told Daisy not to go out to dinner with him that night.
D. Jack invited Daisy to go out to dinner with him that night.

Câu 42: Mark the letter A, B, C or D on your answer sheet to indicate the sentence that has the same meaning as the sentence printed before it.

They planted a lot of flowers on Sunday.

(passive QKĐ)

- A. A lot of flowers were planted on Sunday.
B. A lot of flowers are planted on Sunday.
C. A lot of flowers was planted on Sunday.
D. A lot of flowers is planted on Sunday.

Câu 43: Mark the letter A, B, C or D on your answer sheet to indicate the correct answer to the following question.

Mark suggests.....the house for Christmas.

Suggest + V-ing: gợi ý cùng tham gia

- A. to decorate
B. decorate
C. decorating
D. decorated

Câu 44: Mark the letter A, B, C or D on your answer sheet to indicate the correct answer to the following question.

Those cars are very expensive.....?

- A. do they
B. aren't they
C. are they
D. weren't they

Câu 45: Mark the letter A, B, C or D on your answer sheet to indicate the correct response in the following exchanges.

Peter and Mary are talking about the English speaking contest.

thông báo thành tích

Peter: "I've won the first prize in the English speaking contest." - Mary: "....."

- A. Well, Good idea!
B. Congratulations!
C. You're welcome.
D. Yes, I'd love to.

Câu 46: Mark the letter A, B, C or D on your answer sheet to indicate the correct answer to the following question.

The woman... *chị gái* is singing on the stage is my brother's close friend.

- A. who *→ cô*
B. when
C. where
D. which

Read the following passage and mark the letter A, B, C or D on your answer sheet to indicate the best option to answer each of the following questions.

One of the most urgent environmental problems in the world today is the shortage of clean water. Having clean drinking water is a basic human right. However, acid rain, industrial pollution and garbage have made many sources of water undrinkable. Lakes, reservoirs and even entire seas have become vast pools of poison. Lake Baikal in Russia is one of the largest lakes in the world. It contains a rich variety of animals and plants, including 1,300 rare species that do not exist anywhere else in the world. Yet, they are being destroyed by the massive volumes of industrial chemicals which pour into the lake every day. Even though laws have been made, the governments do not have the power to enforce them. Most industries simply ignore the regulations. The Mediterranean Sea occupies 1% of the world's water surface, but it is the dumping ground for 50% of all marine pollution. Almost sixteen countries regularly throw industrial wastes a few miles offshore. Water is free to everyone. A few years ago people thought that the supply of clean water in the world was limitless. Today, many water supplies have been ruined by pollution and sewage. Clean water is now scarce, and we are at last beginning to respect it. What should we do to save this precious source?

Câu 47: What is the main idea of the reading text?

- A. Laws have been made to prevent countries from polluting the environment.
B. Clean water is becoming scarce due to pollution and sewage.
C. Sea water is increasingly polluted by industrial wastes.
D. People are throwing poisons into bodies of water.

Nước sạch khan hiếm do ô nhiễm và nước thải

Câu 48: What does the word "It" in the passage refer to?

- A. sea
B. pool
C. Lake Baikal
D. plant

Câu 49: Which of the following is NOT a cause of undrinkable water?

- A. acid rain
B. deforestation
C. garbage
D. industrial pollution

Câu 50: The word "marine" is closest in meaning to

- A. mountainous
B. underground
C. inland
D. aquatic

thuộc về vùng núi

thuộc về đại dương

dưới lòng đất

liên quan đến nước