



- Answer all the following question
- Illustrate your answers with sketches when necessary.
- The exam. Consists of two pages
- No. of questions:4
- Total Mark: 35 Marks

The first question: Text Book (15 Marks)

- 1) How does heat change a liquid into a gas?
- 2) Which idiom with big means to become famous?
- 3) What further processing is required to make steel?
- 4) What are four products made from the molten iron?
- 5) What are the four ingredients needed for iron extraction?
- 6) Mention other names for the silver steel and the mild steel.
- 7) What is the difference between cast iron and wrought iron?
- 8) The blast furnace is kept alight continuously for several years. Why?
- 9) What improvements in engineering became possible with Bessemer's discovery?
- 10) Why did the silver steel break when the mild steel showed no change when heated?
- 11) a) **Write the meaning of:** Import – Combustion – Country – Discover – reasonably – Action – Absolute – Exactly – Rotate
Jobs – In Charge – Stand out a mile – Small Fortune.
- b) **Give the opposite of:** Use – Cheap – Unsuitable – Internal - Mild - Flexi.
- c) **Distinguish between the following pair of words:** 1) Familiar, Commonplace. 2) Effect, Affect.

12) Rephrase the underlined words:

- a- I'm an **apprentice** with a local engineering firm.
- b- I hope the company will **take me on** as an engineer..
- c- The Tower is **lined with** fire brick.
- d- **Periodically**, the iron and the slag are drained off.
- e- Hot air is **blasted** into the base of the furnace.
- f- Limestone is to absorb **impurities**.
- g- One **blow** on the silver steel and it fractured.
- h- Use **uniform** hammer blow.

13) Write how "ed" is pronounced in these verbs: { /t/ - /d/ - /Id/ }

Then Write how "es" is pronounced in the same verbs: { /s/ - /z/ - /Iz/ }

Mix – Need – Start – Wash – Die – Compose – Laugh – Mould – Smelt – Smooth – Play – Look.

The second question: Grammar (15 Marks)

A) Complete the sentence with a prepositions:

- 1- I'mthe afternoon shift this week.
- 2- Exports account.....70 percent of total industry..
- 3- We have factories all.....the world.
- 4- We specialise.....top of the range cars.
- 5- What does IBM stand.....?.
- 6- The pipes are made.....copper.
- 7- The pipes are covered.....plastic.
- 8- I have to liaise.....our production planners.
- 9- Aluminium is extracted.....electricity..... a special cell.
- 10- Aluminium is first alloyed.....copper, then heated and poured.....the cell.

B) Choose the correct answer :

- 1- Someone who works with wood is the.....
a) Welder b) Joiner c) fitter
- 2- Someone who joins metals together, usually using heat is the.....
a) Welder b) Joiner c) fitter
- 3- Our.....this year will be about 50000£
a) overtime b) turnover c) flexi-time
- 4- I'm doing.....this week so I'll earn more money.
a) overtime b) turnover c) flexi-time

5- She works.....so she can start work at any time between 8a.m and 9 a.m

- a) overtime b) fixed time c)flexi-time

6- He is on, he goes to work every day from 9 to 3.

- a) overtime b) fixed time c)flexi-time

7- Iof selling my car. Would you be interested in buying it?

- a)thinks b) am thinking c) think

8- Kite.....you should sell your car. You don't use it very often.

- a)thinks b) think c) is thinking

9- I'm doing an.....

- a)turnover b)apprenticeship c)apprentice

10-The window was open and a bird.....into the room.

- a)is flying b)fly c)flew

11- I can't understand why he.....so selfish. He never thinks about other people.

- a) Being b) Is being c) Is

12- My job involves..... quality

- a) check b) checking c)checks

C-Do as shown in brackets:

1-Somebody hit me.

(Ask using Who.....?)

2- It (rain) this morning when I came out of my house.

(Correct the verb)

3- I'm thinking this is your key. Am I right?

(Find the mistake and correct it)

4-Jack said something.

(Ask using What.....?)

5-What time is it?

(Begin with: He asked me)

6- Just over two million dollars a year.

(Ask a question)

7- Something fell on the floor.

(Ask using What.....?)

8-What do you mean?

(Begin with: Do you know.....)

9-Are you willing to travel?

(Begin with: He asked me)

10- Vegetarians don't eat meat.

(Rewrite using never)

11- They were late.

(Write the negative form of that sentence)

12- A: The car has broken down again.

B: That car is useless. It.....

(Complete the sentence using ALWAYS)

The third question: Reading Comprehension (5 Marks)

Soon computer and other machines will be able to recognize you by looking at your eyes! The system works because everyone's eyes are different. So in the future you won't have to remember a number when you want to use a machine or take money out of a bank. You'll just have to look at the machines and it will be able to tell who you are. The eye recognition system is already being tested in shops and banks in the USA, BRITAIN, and SPAIN. Experts say that by 2020 eye- recognition will have replaced all other ways of telling who people are. However scientists are working on other system. Machines will be able to recognize you from the shape of face or hand or even your smell! We already have machines which can identify you from your voice or finger prints. In the USA you can now buy a gun which recognizes its owner's finger prints and only that person can fire it! But eye- recognition is better because your eyes don't change as you get older- and even identical twins have different eyes. So the systems can offer 100% accuracy.

A- Answer the following questions:

1- Why is eye recognition system perfect?

2- What are other systems of recognition?

B- Choose the correct answer:

1- In the future machines will identify you from.....

- a) Legs. b) Eyes. c) Skin.

2- The underlined word identical means.....

- a) Different. b) A like. c) Compatible.

3- The best title for his passage is system.

- a) Skin recognition. b) Eye recognition. c) Computer.

The fourth question: Writing (5 Marks)

Write a paragraph on only ONE of the following topics:-

1. Metals and its uses.
2. Heat and its effects .
3. Solar Energy.

Board of examiners
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1- Text Book

Answer the following questions:-

- 1) When its boiling points are reached or . There is first of all a steady rise in temperature and after that the liquid changes into a gas.
- 2) Make it big
- 3) Bessemer's converter.
- 4) Pig iron, wrought iron, cast iron and steel.
- 5) Iron ore – limestone – coke – hot air.
- 6) Silver steel is called shiny steel and mild steels called black steel.
- 7) Cast iron is cheap but brittle and unsuited for anything that had to undergo tension or bending. Wrought iron is a pure iron smelted from pure Swedish ores.
- 8) to keep the high temperature.
- 9) He discovered a way by which cast iron could cheaply be turned into mild steel.
- 10) Because of the high carbon content.

11) Import: bring some qualities from one product to another – Combustion: the process of burning – Country: an area outside cities – Discover: find something for the first time – reasonably: sound judgement – Absolute: complete – Exactly: information that is completely correct – Rotate jobs : work in turns – In charge: in control - Stand out a mile : obvious – Small Fortune: huge amount of money.

b) Use: misuse or abuse – Cheap: expensive – Unsuitable: suited – Internal: external. Mild : extreme – Flexi: fixed.

c) Familiar: easily recognized, Commonplace: common thing – effect: the power or ability to influence – affect: act upon or influence.

12) trainee – employ - covered from the inside – at intervals – forced under high pressure – unwanted substance – hit – the same standard.

13) /t/ - /Id/ - /Id/ - /t/ - /d/ - /d/ - /t/ - /Id/ - /Id/ - /t/ - /d/ - /t/.

/Iz/ - /Z/ - /S/ - /Iz/ - /Z/ - /Iz/ - /S/ - /Z/ - /S/ - /S/ - /Z/ - /S/.

2- Grammar

A) Complete the sentence with a prepositions:

On – for – over – in – for – of – with – with – by – in – with – into.

B) Choose the correct answer :

Joiner – welder – turnover – overtime – flexi time – fixed time – am thinking – apprentice ship – flew – is – checking

C-Do as shown in brackets:

- 1) Who hit you?
- 2) was raining
- 3) I think
- 4) What did Jack say?
- 5) He asked me what time it was?
- 6) What's your annual turnover?
- 7) What fell on the floor?
- 8) Do you know what you mean?
- 9) He asked me if I was willing to travel?
- 10) Vegetarians never eat meat.
- 11) They weren't late.

12) A: The car has broken down again.

B: That car is useless. It is always breaking down.

III- Reading Comprehension

A. Answer the following questions:-

1- The system works because everyone's eyes are different.

2- The shape of face or hand.

B. Choose the correct answer:

1- Skin.

2- A like.

3- Eye Recognition.

IV- Writing a paragraph

Write a paragraph on only one of the following topics:-

Writing is assessed by the examiner.