

I: Read the text and answer the following questions:
(25 Marks)

Mechanisms play a vital role in industry. While many industrial processes have electronic control systems, it is still mechanisms that deliver the power to do the work. They provide the forces to press steel sheets into car body panels, to lift large components from place to place, to force plastic through dies to make pipes.

All mechanisms involve some kind of motion. The four basic kinds of motion are:

Rotary, Oscillating, Linear, and Reciprocating .

Oscillating: The pendulum of a clock oscillates- it swings backwards and forwards. Many mechanisms involve changing one kind of motion into another type. For example, the reciprocating motion of a piston is changed into a rotary motion by the crankshaft, while a cam converts the rotary motion of the engine into the reciprocating motion required to operate the valves.

- 1) What does a cam do?
- 2) What does oscillating mean?
- 3) How are plastic pipes formed?
- 4) What is the function of a crankshaft?
- 5) What do mechanisms provide in industry?

II.Fill in the blanks with the following words:

(There is an extra word) (5 Marks Each)
machines, concerned, practical, deals, installation, action,
Engineering is largely a (6)_____ activity. It is about putting ideas into (7)_____. Civil engineering is (8)_____ with making bridges, roads, etc. Mechanical engineering (9)_____ with the design and manufacture of tools and (10)_____.

III. Match Column A with B:(There is an EXRTA answer)

A (5 Marks Each)

- 11) Ships
- 12) Sheets
- 13) You read a manual
- 14) College brochure
- 15) An alloy

B

- a) is an alloy suitable for casting
- b) are the concern of marine engineering
- c) is formed by mixing other metals or elements
- d) are large, thin, flat pieces
- e) To find out how to do something
- f) helps you in choosing a course

IV.Choose the correct answer A, B, C, or D to complete the following sentences. (3 Marks Each)

16) Aluminium is a light metal _____ is used to make aircraft.

- A) which B) whom C) that D) both A+C

17) _____ is a state of balance where opposing forces cancel each other.

- A)gravity B) buoyancy C) magnitude D) equilibrium

18) _____ is a material which becomes plastic when heated.

- A)An alloy B) A thermoplastic
C) A thermosetting plastic D) Mild steel

19) Nylon is used for bearings, _____ it is self-lubricating.

- A)although B) since C) therefore D) but

20) In a simple engine, the loop is connected _____ the commutator.

- A)because B) so C) to D) both A+C

21) A transformer _____ two coils, a primary and a secondary.

- A)known as B) is made up
C) consists of D) connect

22) When two components are **glued** to each other, it means they are connected with:

- A) adhesives B) no specific method C) screw D)wires

23) To **resit** means:

- A)to take an exam again
B) to be successful in an exam
C) to be unsuccessful in an exam
D) to abandon a course before it is complete

24) The water is heated _____ it reaches a pre-set temperature.

- A)after B) until C) when D) while

25) The accident happened _____ the operator's carelessness.

- A)moreover B) so C) because of D) therefore

Wish you the Best of Luck
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سلم علامات امتحان اللغة الانكليزية 3- السنة الثانية (فصل ثاني) -

قسم الميكانيك العام والتصميم الميكانيكي

السؤال الرابع: 30 علامة (3 علامات لكل إجابة)

السؤال الأول: 25 علامة (5 علامات لكل سؤال)

1. It converts the rotary motion of the engine into a reciprocating motion required to operate the valves.
2. It means swinging backwards and forwards.
3. By forcing plastic through dies.
4. It converts the reciprocating motion of a piston is changed into a rotary motion.
5. They deliver the power to do the work.

16. D) Both A+C
17. D) equilibrium
18. B) A thermoplastic
19. B) since
20. C) to
21. C) consists of
22. A) adhesives
23. A) to take an exam again
24. B) until
25. C) because of

السؤال الثاني: 20 علامة (4 علامات لكل إجابة)

6. practical
7. actions
8. concerned
9. deals
10. machines

السؤال الثالث: 25 علامة (5 علامات لكل إجابة)

11. b. are the concern of marine engineering
12. d. are large, thin, flat pieces
13. e. To find out how to do something
14. f. helps you in choosing a course
15. c. is formed by mixing other metals or elements