



**GENERAL METAL  
WORK**  
PAPER CODE: 191-1  
Saturday  
25th May, 2019  
(3.00 p.m. - 5.40 p.m.)

**NATIONAL BUSINESS AND TECHNICAL EXAMINATIONS BOARD  
NATIONAL TECHNICAL CERTIFICATE EXAMINATION**

**GENERAL METAL WORK**  
PAPER I (OBJECTIVE AND ESSAY)  
(100 Marks)

PAPER CODE:  
191-1

Time: 2 Hours 40 Minutes

**INSTRUCTIONS:**

DO NOT OPEN THIS QUESTION PAPER UNTIL YOU ARE TOLD TO DO SO.

While you are waiting, read the following instructions carefully.

This paper consists of **two sections**: A and B. Section A is Objective and Section B is Essay. Answer questions in Section A on the Objective Answer Sheet and Section B in your Answer Booklet. Section A comprises **40** Objective questions which should be answered by **all** candidates in **40 minutes**; after which the Objective Answer Sheet will be collected by the supervisor. Section B consists of **seven** Essay questions out of which candidates are expected to answer **five** in **2 hours**.

DO NOT START SECTION B UNTIL YOU ARE TOLD TO DO SO.

1. Before answering questions in Section A, read the instructions on the Objective Answer Sheet carefully. Ensure that your **Centre Code** and **Candidate Number** are **boldly and correctly written and shaded** on your Objective Answer Sheet.
2. Each question is followed by four options lettered A to D. Find out the correct option for each question and shade **in pencil** on your Objective Answer Sheet, the answer which bears the same letter as your chosen option. Give only **one** answer to each question.
3. If you change your mind on your option, **erase** the shading completely and shade another option.
4. The **Code** for this paper is **1 9 1 - 1**.

Write it in the space provided on your Objective Answer Sheet and shade accordingly.

**SECTION A**

**OBJECTIVE**

**(40 Marks)**


**Time: 40 Minutes**

1. The person to be notified in the workshop in case of an accident is the
  - A. principal
  - B. student
  - C. instructor
  - D. doctor
2. Long excess materials, tools and equipment should be kept properly to allow
  - A. unfree environment
  - B. free movement of personel and materials
  - C. free movement of rats and cats
  - D. running around in the workshop
3. Non-ferrous metal's property can be improved by
  - A. polishing with sand
  - B. cold forging
  - C. alloying
  - D. painting
4. The following are non-ferrous metals except
  - A. rubber
  - B. plastic
  - C. grey cast iron
  - D. aluminium
5. Copper is used for the following **except**
  - A. cables
  - B. container
  - C. electricity
  - D. galvanize
6. For producing aircraft, duralumin is one of the materials used because it is
  - A. fast
  - B. bright
  - C. light
  - D. fine
7. The material used to make hacksaw blade is
  - A. mild steel
  - B. low carbon steel
  - C. medium carbon steel
  - D. high carbon steel
8. The odd-leg calliper is also called
  - A. angle calliper
  - B. dogsharp leg calliper
  - C. jenny calliper
  - D. jiney calliper

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9. The sawing and cutting of metal on the bench is known as
- bench work
  - work bench
  - sawing bench
  - cutting bench
10. In drilling operation, the part of the drill that allows escape of chips is called
- sleeve
  - lip
  - shank
  - flute
11. Drilling machine part constitute the following **except**
- spindle
  - gems
  - ~~table~~
  - column
12. The part which may be raised, lowered on the stem of the drilling column is the
- table of pillar
  - spindle
  - handle
  - pulley
13. The following are causes of drill breakage **except**
- too little lip clearance
  - dull drills
  - sharpen drill
  - the speed of the machine not selected
14. Bolts and nuts are used as
- butt joints
  - permanent joints
  - rivet joints
  - ~~temporary joints~~
15. Studs, cotter pins and wiring nuts are examples of
- soldering device
  - permanent joints
  - fastening devices
  - screws and nuts
16. The sketch below is known as
- 
- buttress thread
  - square thread
  - acme thread
  - isometric thread

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17. Forging is divided into the following processes **except**
- drop forging
  - smith forging
  - machine forging
  - hand forging
18. The smith assistant used which of these tools during forging?
- Fullers
  - Sledge hammer
  - Hardie
  - Hand hammer
19. The blacksmith forged best fuel is
- electricity
  - gas
  - kerosine
  - coke
20. Burax is used during forging to prevent
- fusion
  - melting
  - oxidation
  - subsudation
21. The process whereby the diameter of a bar is increased at the expense of the length is known as
- reducing the diameter
  - upsetting
  - increasing the diameter
  - drawing down
22. What is the part labelled X in the anvil shown above called?



- Base
  - Beak
  - Face
  - Working table
23. The lathe machine size is estimated by
- capacity of the electric motor
  - length and the maximum swing
  - size of the head stock
  - size of the tail stock

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**SECTION B**  
**ESSAY**  
**(60 Marks)**

Time: 2 Hours

Answer **five** questions only.

All questions carry equal marks.

1. State **two** safety rules each under the following headings:
  - (a) Tools and equipment
  - (b) Welding
  - (c) Machine shop
  - (d) Personal safety
  
2.
  - (a)
    - (i) What is the purpose of annealing?
    - (ii) How is annealing carried out?
  - (b) What determines the maximum hardness that can be obtained in a piece of steel?
  - (c) Describe case hardening.
  
3.
  - (a) Sketch a pair of spring joint outside calliper.
  - (b) State the difference between odd leg calliper and inside calliper.
  - (c) State **two** advantages of spring callipers over firm joint callipers.
  
4.
  - (a) With the aid of a sketch, show how a round bar can be held for drilling.
  - (b) List **three** types of drilling operations.
  
5.
  - (a) Define defect in arc welding.
  - (b)
    - (i) List **four** defects in arc welding.
    - (ii) State **four** causes of defects in arc welding.
  
6.
  - (a) List **six** operations that can be performed on the lathe machine.
  - (b) Briefly explain any **two**.
  
7.
  - (a) Calculate the cutting speed when using drilling machine to produce a hole 100mm diameter and the machine speed is 350 rev/min.
  - (b) State the purpose of leadscrew on lathe.

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