

**Question paper of  
Outfit Assistant  
(Machinist)**

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	10
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	10
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	49373729
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 493737751 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Official language of India is

**Options :**

1. Hindi, English and Regional language of the respective State
2. Hindi in Devanagari script
3. Hindi, English and Urdu
4. English

**Question Number : 2 Question Id : 493737752 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which country lifted the ICC Women's T20 World Cup Trophy in 2023?

**Options :**

1. India
2. New Zealand
3. Australia
4. England

**Question Number : 3 Question Id : 493737753 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which country is the largest trading partner of India after China and US, as of 2022?

**Options :**

1. South Africa
2. UAE
3. France
4. Singapore

**Question Number : 4 Question Id : 493737754 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

How many bones are there in the body of an adult human?

**Options :**

1. ❌ 330
2. ✓ 206
3. ❌ 250
4. ❌ 210

**Question Number : 5 Question Id : 493737755 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What is the official currency of Japan?

**Options :**

1. ❌ Won
2. ❌ Yuan
3. ❌ TWD
4. ✓ Yen

**Question Number : 6 Question Id : 493737756 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The first British Viceroy of India

**Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.**

**Options :**

1. Lord Kargen
2. Lord Irvin
3. Lord Cannon
4. Lord Dalhousie

**Question Number : 7 Question Id : 493737757 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

First Bank in India to introduce Talking ATMs for disabled persons

**Options :**

1. ✓ Union Bank of India
2. ❌ Punjab National Bank
3. ❌ ICICI Bank
4. ❌ SBI

**Question Number : 8 Question Id : 493737758 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

An amount of Rs. 3600/- was divided among 3 children in a family in the ratio of 5:4:3 according to their seniority. Find out how much the eldest child got?

**Options :**

1.  Rs. 1200
2.  Rs. 1300
3.  Rs. 1400
4.  Rs. 1500

**Question Number : 9 Question Id : 493737759 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

When my sister was born, I was 1/10th of my father's age. This year my sister voted for the first time and I celebrated my 22nd birthday. Find my father's age when my sister was born.

**Options :**

1.  40 years
2.  42 years
3.  34 years
4.  37 years

**Question Number : 10 Question Id : 493737760 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Solve for x:

$$3x + 7 = 2x - 5$$

**Options :**

1.  5
2.  -10
3.  3
4.  -12

## Trade Related

<b>Group Number :</b>	2
<b>Group Id :</b>	49373730
<b>Group Maximum Duration :</b>	25
<b>Group Minimum Duration :</b>	25
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	20

## Trade Related

Section Id :	49373730
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	20
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	49373730
Question Shuffling Allowed :	Yes

**Question Number : 11 Question Id : 493737761 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The point angle of a standard drill is

**Options :**

1. 135°
2. 118°
3. 60°
4. 108°

**Question Number : 12 Question Id : 493737762 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

A centre guage is used to

**Options :**

1. check the pitch of the thread
2. set the tool at the correct centre height
3. check the fit of the thread
4. check the angle of the threading tool

**Question Number : 13 Question Id : 493737763 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Inorder to prevent the tool from rubbing the workpiece, \_\_\_ on tools is provided.

**Options :**

1. Relief angles
2. Rake angles
3. Face angles
4. None of the options

**Question Number : 14 Question Id : 493737764 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

While machining cast iron, coolant should be

**Options :**

1.  Soft water
2.  Kerosene
3.  Dry air
4.  Machine oil

**Question Number : 15 Question Id : 493737765 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The operation of sharpening a grinding wheel is called

**Options :**

1.  Truing
2.  Aligning
3.  Balancing
4.  Dressing

**Question Number : 16 Question Id : 493737766 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

A single point thread cutting tool should ideally have

**Options :**

1.  zero rake angle
2.  positive rake angle
3.  negative rake angle
4.  point angle

**Question Number : 17 Question Id : 493737767 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

A Micrometer has a negative error of 0.04 mm. What is the correct reading if the micrometer measures 30.62 mm?

**Options :**

1.  30.58 mm
2.  30.66 mm
3.  30.70 mm
4.  None of the options

**Question Number : 18 Question Id : 493737768 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What is/ are the grade of file (s) used for rapid and larger quantity of metal removal?

**Options :**

1. smooth file
2. second cut file
3. rough file
4. All of the options

**Question Number : 19 Question Id : 493737769 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The size of a shaper is given by

**Options :**

1. Motor power
2. Mass of machine
3. Rate size
4. Stroke length

**Question Number : 20 Question Id : 493737770 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The hole to be drilled for tapping should be \_\_\_\_ the outside diameter of the thread on the tap.

**Options :**

1. Smaller than
2. Equal to
3. Greater than
4. None of the options

**Question Number : 21 Question Id : 493737771 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What is the pitch of spindle thread of a metric micrometer ?

**Options :**

1. 0.5mm
2. 0.05mm
3. 0.1mm
4. 0.01mm

**Question Number : 22 Question Id : 493737772 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which of these is NOT a part of the lathe carriage ?

**Options :**

1.  cross slide
2.  compound slide
3.  apron
4.  bed

**Question Number : 23 Question Id : 493737773 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which of these is not an example for forming operation in lathe ?

**Options :**

1.  ball making
2.  taper turning
3.  both taper turning and ball making
4.  boring

**Question Number : 24 Question Id : 493737774 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What does letter A denotes in code 51A36L5V marked in a grinding wheel ?

**Options :**

1.  nature of wheel
2.  type of abrasive
3.  grain size
4.  grade

**Question Number : 25 Question Id : 493737775 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The milling operation which produces flat vertical surface on both sides of a work piece using two side milling cutters mounted on a same arbor is

**Options :**

1.  straddle milling
2.  profile milling
3.  gang milling
4.  side milling

**Question Number : 26 Question Id : 493737776 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Three Jaw chuck is also known as

**Options :**

1.  self centering chuck
2.  non universal chuck

- 3.  independent chuck
- 4.  None of the options

**Question Number : 27 Question Id : 493737777 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

In a shaper, the metal is removed during

**Options :**

- 1.  forward stroke
- 2.  return stroke
- 3.  both forward and return stroke
- 4.  neither forward nor the return stroke

**Question Number : 28 Question Id : 493737778 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The ability of a metal to be drawn into wire is a measure of its

**Options :**

- 1.  Toughness
- 2.  Malleability
- 3.  Ductility
- 4.  Hardness

**Question Number : 29 Question Id : 493737779 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What will be the result if the clearance angle in drill is increased ?

**Options :**

- 1.  Poor wedging action
- 2.  Weak cutting edge
- 3.  Rough hole surface
- 4.  Increased point angle

**Question Number : 30 Question Id : 493737780 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which one of the following cutting fluids is used during grinding mild steel ?

**Options :**

- 1.  Mineral oil
- 2.  Soluble oil
- 3.  Non-synthetic cutting oil
- 4.  Paraffin

**Question paper of  
Outfit Assistant (Crane  
Operator)**

## Section 1 - General

No. of Questions: 10  
Duration in Minutes: 35

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1) Name the primary colours.

- A) Green, Red, Orange
- B) Red, Yellow, Blue
- C) Green, Yellow, Red
- D) Blue, Red, Green

---

2) What is the average of first five multiples of 12?

- A) 36
- B) 38
- C) 40
- D) 42

---

3) Who is known as Father of Green Revolution?

- A) Dr. M S Swaminathan
- B) Norman Borlaug
- C) Verghese Kurien
- D) None of the options

---

4) 'Amrut Mahotsav', which was seen in the news recently, is the celebration of which event?

- A) 125th birth anniversary of Netaji
- B) 75th year of India's Independence
- C) 50th year of 1971 War
- D) 50th year of Kargil War

---

5) The famous Brihadeeshwara Temple is located in which place?

- A) Thanjavur
- B) Madurai
- C) Rameswaram
- D) Kanchipuram

---

6) What should be added to 1459 so that it is exactly divisible by 12?

- A) 4

- B) 3
- C) 5
- D) 6

---

7) A mother is twice as old as her son. If 20 years ago, the age of the mother was 10 times the age of the son, what is the present age of the mother?

- A) 38
- B) 40
- C) 43
- D) 45

---

8) "United for Dignity" Campaign honors the dignity of people who have experienced which disease?

- A) COVID
- B) Leprosy
- C) Cancer
- D) Tuberculosis

---

9) The population of a village is 10,000. If the annual increase in population of the village is 10%, what will be the population after 4 years?

- A) 14641
- B) 14331
- C) 14251
- D) 14821

---

10) If 40% of an amount is 250, what will be 60% of that amount?

- A) 300
- B) 320
- C) 375
- D) 400

## Section 2 - OUTFIT ASSISTANT CRANE OPERATOR EOT

No. of Questions: 20  
Duration in Minutes: 35

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11) The number of cycles that occur in one second is termed as

- A) waveform
- B) frequency
- C) amplitude
- D) wavelength

---

12) In a \_\_\_\_\_ circuit, the total resistance is smaller than the smallest resistance in the circuit.

- A) Series
- B) Parallel
- C) Either series or parallel
- D) Neither series nor parallel

---

13) What is the unit of measure for electrical pressure or electromotive force?

- A) amps
- B) ohms
- C) volts
- D) watts

---

14) Electric overhead travelling (EOT) cranes have

- A) Transverse movement
- B) Longitudinal movement
- C) Both transverse and longitudinal movement
- D) None of the options

---

15) Warning lights and sirens mounted on your crane are used to ..... and shall be maintained in good operating condition.

- A) Decorate the crane and alert employees of quitting time
- B) Warn other employees in the area of crane movement
- C) Light up the work area and warn employees the boss is coming
- D) None of the options

---

16) The rated voltage of a 3-phase power system is given as

---

- A) rms phase voltage
- B) peak phase voltage
- C) rms line to line voltage
- D) peak line to line voltage

---

17) An ideal voltage source will charge an ideal capacitor

- A) in infinite time
- B) exponentially
- C) instantaneously
- D) None of the options

---

18) The hoisting drum shall have a minimum of ..... wraps left on the drum when the hook is in its lowest position.

- A) 6
- B) 4
- C) 2
- D) 3

---

19) Crawling in induction motor is caused by

- A) Low voltage supply
- B) High loads
- C) Harmonics developed in the motor
- D) Improper design of the machine

---

20) The most common filament used in incandescent lamp is

- A) Copper
- B) Tungsten
- C) Silicon
- D) Silver

---

21) What is the number of primary turns in a 200/1000 V transformer if the emf per turn is 10V?

- A) 5
- B) 20
- C) 10
- D) 40

---

22) What is SWL in cranes?

---

- A) Safe Working Limit
- B) Safe Working Load
- C) Statutory Working Load
- D) Statutory Working Limit

---

23) The PF of a pure resistive load is

- A) Unity
- B) Lagging
- C) Leading
- D) None of the options

---

24) When load testing an overhead crane, the test load shall not exceed ... percent of the maximum rated capacity, unless the manufacturer or a structural engineer approves the load test.

- A) 80
- B) 100
- C) 110
- D) 125

---

25) Three 6 ohm resistors are connected to form a triangle. What is the resistance between any two corners ?

- A) 6 ohm
- B) 12 ohm
- C) 4 ohm
- D)  $8/3$  ohm

---

26) What is the applied voltage on a circuit in which 0.5A is flowing and 10 W is generated?

- A) 2 V
- B) 5 V
- C) 20 V
- D) 50 V

---

27) Which of the following semiconductor is mostly used to construct electronic circuits ?

- A) Germanium
- B) Silver
- C) Silicon
- D) Copper

---

28) In rotor resistance starting of induction motor, the rotor resistance is

- A) initially maximum then reduced to minimum
- B) initially minimum then increased to maximum
- C) zero
- D) maintained constant

---

29) The characteristics of the drive for crane hoisting and lowering is

- A) Smooth movement
- B) Precise control
- C) Fast speed control
- D) All of the options

---

30) Calculate the work done in a resistor of  $20 \Omega$  carrying 5A of current in 3 hours.

- A) 1.5J
- B) 15J
- C) 1.5kWh
- D) 15kWh

<u>OUTFIT ASSISTANT CRANE OPERATOR EOT</u>					
1	B	11	B	21	B
2	A	12	B	22	B
3	WITHDRAWN	13	C	23	A
4	B	14	C	24	D
5	A	15	B	25	C
6	C	16	C	26	C
7	D	17	C	27	C
8	B	18	D	28	A
9	A	19	C	29	D
10	C	20	B	30	C

**Question paper of  
Outfit Assistant  
(Instrument Mechanic)**

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	10
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	10
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	49373739
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 493737901 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Official language of India is

**Options :**

1. Hindi, English and Regional language of the respective State
2. Hindi in Devanagari script
3. Hindi, English and Urdu
4. English

**Question Number : 2 Question Id : 493737902 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which country lifted the ICC Women's T20 World Cup Trophy in 2023?

**Options :**

1. India
2. New Zealand
3. Australia
4. England

**Question Number : 3 Question Id : 493737903 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which country is the largest trading partner of India after China and US, as of 2022?

**Options :**

1. South Africa
2. UAE
3. France
4. Singapore

**Question Number : 4 Question Id : 493737904 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

How many bones are there in the body of an adult human?

**Options :**

1. ✘ 330
2. ✓ 206
3. ✘ 250
4. ✘ 210

**Question Number : 5 Question Id : 493737905 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What is the official currency of Japan?

**Options :**

1. ✘ Won
2. ✘ Yuan
3. ✘ TWD
4. ✓ Yen

**Question Number : 6 Question Id : 493737906 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The first British Viceroy of India

**Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.**

**Options :**

1. Lord Kargen
2. Lord Irvin
3. Lord Cannon
4. Lord Dalhousie

**Question Number : 7 Question Id : 493737907 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

First Bank in India to introduce Talking ATMs for disabled persons

**Options :**

1. ✓ Union Bank of India
2. ✘ Punjab National Bank
3. ✘ ICICI Bank
4. ✘ SBI

**Question Number : 8 Question Id : 493737908 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

An amount of Rs. 3600/- was divided among 3 children in a family in the ratio of 5:4:3 according to their seniority. Find out how much the eldest child got?

**Options :**

1.  Rs. 1200
2.  Rs. 1300
3.  Rs. 1400
4.  Rs. 1500

**Question Number : 9 Question Id : 493737909 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

When my sister was born, I was 1/10th of my father's age. This year my sister voted for the first time and I celebrated my 22nd birthday. Find my father's age when my sister was born.

**Options :**

1.  40 years
2.  42 years
3.  34 years
4.  37 years

**Question Number : 10 Question Id : 493737910 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Solve for x:

$$3x + 7 = 2x - 5$$

**Options :**

1.  5
2.  -10
3.  3
4.  -12

## Trade Related

<b>Group Number :</b>	2
<b>Group Id :</b>	49373740
<b>Group Maximum Duration :</b>	25
<b>Group Minimum Duration :</b>	25
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	20

## Trade Related

Section Id :	49373740
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	20
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	49373740
Question Shuffling Allowed :	Yes

**Question Number : 11 Question Id : 493737911 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What does the numbers in 4/2 valve mean?

**Options :**

1. 4 positions and 2 ways
2. 4 ways and 2 positions
3. 4 butterfly valves and 2 ball valves
4. 2 butterfly valves and 4 ball valves

**Question Number : 12 Question Id : 493737912 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is a measurement tool for electrical signals with waveforms?

**Options :**

1. Oscilloscope
2. Multimeter
3. Clamp Meter
4. HART

**Question Number : 13 Question Id : 493737913 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Offset can be eliminated by using

**Options :**

1. Proportional controller
2. Derivative controller
3. On-off controller
4. Integral controller

**Question Number : 14 Question Id : 493737914 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which part of the Pneumatic system stores the compressed air ?

**Options :**

1.  Air dryer
2.  Air compressor
3.  Air receiver tank
4.  Air lubricator

**Question Number : 15 Question Id : 493737915 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which transform converts the function from time domain to 's' domain (Complex frequency domain) ?

**Options :**

1.  Laplace transform
2.  Fourier series
3.  Inverse Laplace transform
4.  Z transform

**Question Number : 16 Question Id : 493737916 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

One cubic metre of water weighs

**Options :**

1.  100 litres
2.  1 litre
3.  10 litres
4.  1000 litres

**Question Number : 17 Question Id : 493737917 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

\_\_\_\_\_ temperature scale assigns  $0^\circ$  to the 'ice point' and  $80^\circ$  to the 'steam point'.

**Options :**

1.  Celsius
2.  Rankine
3.  Réaumur
4.  Fahrenheit

**Question Number : 18 Question Id : 493737918 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

P&ID stands for ?

**Options :**

1. Process & Information diagram
2. Process & Instrumentation diagram
3. Piping & Information drawing
4. Piping & Instrumentation diagram

**Question Number : 19 Question Id : 493737919 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What is the full form of IoT?

**Options :**

1. Internet of Technology
2. Incorporation of Things
3. Internet of Things
4. Incorporation of Technology

**Question Number : 20 Question Id : 493737920 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What is the purpose of the HART protocol?

**Options :**

1. To transmit digital data over analog communication lines
2. To control analog devices with digital signals
3. To communicate between different HART devices
4. To transmit audio signals over communication lines

**Question Number : 21 Question Id : 493737921 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Convert Decimal 1234 to Octal

**Options :**

1.  $(2031)_8$
2.  $(2123)_8$
3.  $(2303)_8$
4.  $(2322)_8$

**Question Number : 22 Question Id : 493737922 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Mention the sequence in increasing order of accuracy in traceability ladder :

- a) Primary Standard
- b) Transfer Standard

- c) Laboratory Standard
- d) Element to be calibrated

**Options :**

- 1.  d->b->c->a
- 2.  d->c->b->a
- 3.  d->a->b->c
- 4.  d->b->a->c

**Question Number : 23 Question Id : 493737923 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Signal flow graph is used to find

**Options :**

- 1.  Transfer function of the system
- 2.  Stability of the system
- 3.  Controllability of the system
- 4.  Poles of the system

**Question Number : 24 Question Id : 493737924 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is correct for tactile sensors?

**Options :**

- 1.  Input voltage sensitive
- 2.  Pressure sensitive
- 3.  Touch sensitive
- 4.  Humidity sensitive

**Question Number : 25 Question Id : 493737925 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Thermocouple generates output voltage according to

**Options :**

- 1.  Temperature
- 2.  Circuit parameters
- 3.  Humidity
- 4.  Voltage

**Question Number : 26 Question Id : 493737926 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

MEM stands for

**Options :**

- 1.  Macro electro magnetism
- 2.  Macro electro mechanism
- 3.  Micro electro magnetism
- 4.  Micro electro mechanism

**Question Number : 27 Question Id : 493737927 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Gyroscopes are

**Options :**

- 1.  Pressure sensors
- 2.  Voltage sensors
- 3.  Inertial sensors
- 4.  Humidity sensors

**Question Number : 28 Question Id : 493737928 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Transfer function of the system is defined as the ratio of Laplace output to Laplace input considering initial condition as

**Options :**

- 1.  Zero
- 2.  One
- 3.  Two
- 4.  Infinite

**Question Number : 29 Question Id : 493737929 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Liquid flow is measured using a/an

**Options :**

- 1.  pirani gauge
- 2.  pyrometer
- 3.  orifice plate
- 4.  Any of the options

**Question Number : 30 Question Id : 493737930 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

For a rotameter, which one of the following is TRUE?

**Options :**

- 1.  The weight of the float is balanced by the buoyancy and the drag force acting on the float.
- 2.  The velocity of the fluid remains constant for all positions of the float.

3.  The measurement of volume flow rate of gas is not possible.
4.  The volume flow rate is insensitive to changes in density of the fluid.

# **Question paper of Outfit Assistant (Painter)**

<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	10
<b>Number of Questions to be attempted :</b>	10
<b>Section Marks :</b>	10
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	49373741
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 493737931 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Official language of India is

**Options :**

1. Hindi, English and Regional language of the respective State
2. Hindi in Devanagari script
3. Hindi, English and Urdu
4. English

**Question Number : 2 Question Id : 493737932 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which country lifted the ICC Women's T20 World Cup Trophy in 2023?

**Options :**

1. India
2. New Zealand
3. Australia
4. England

**Question Number : 3 Question Id : 493737933 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which country is the largest trading partner of India after China and US, as of 2022?

**Options :**

1. South Africa
2. UAE
3. France
4. Singapore

**Question Number : 4 Question Id : 493737934 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

How many bones are there in the body of an adult human?

**Options :**

1. ✘ 330
2. ✓ 206
3. ✘ 250
4. ✘ 210

**Question Number : 5 Question Id : 493737935 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What is the official currency of Japan?

**Options :**

1. ✘ Won
2. ✘ Yuan
3. ✘ TWD
4. ✓ Yen

**Question Number : 6 Question Id : 493737936 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The first British Viceroy of India

**Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.**

**Options :**

1. Lord Kargen
2. Lord Irvin
3. Lord Cannon
4. Lord Dalhousie

**Question Number : 7 Question Id : 493737937 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

First Bank in India to introduce Talking ATMs for disabled persons

**Options :**

1. ✓ Union Bank of India
2. ✘ Punjab National Bank
3. ✘ ICICI Bank
4. ✘ SBI

**Question Number : 8 Question Id : 493737938 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

An amount of Rs. 3600/- was divided among 3 children in a family in the ratio of 5:4:3 according to their seniority. Find out how much the eldest child got?

**Options :**

1.  Rs. 1200
2.  Rs. 1300
3.  Rs. 1400
4.  Rs. 1500

**Question Number : 9 Question Id : 493737939 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

When my sister was born, I was 1/10th of my father's age. This year my sister voted for the first time and I celebrated my 22nd birthday. Find my father's age when my sister was born.

**Options :**

1.  40 years
2.  42 years
3.  34 years
4.  37 years

**Question Number : 10 Question Id : 493737940 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Solve for x:

$$3x + 7 = 2x - 5$$

**Options :**

1.  5
2.  -10
3.  3
4.  -12

## Trade Related

<b>Group Number :</b>	2
<b>Group Id :</b>	49373742
<b>Group Maximum Duration :</b>	25
<b>Group Minimum Duration :</b>	25
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	20

## Trade Related

Section Id :	49373742
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	20
Number of Questions to be attempted :	20
Section Marks :	20
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	49373742
Question Shuffling Allowed :	Yes

**Question Number : 11 Question Id : 493737941 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which among the following is used to fill up the dents, cracks and unevenness of the surface to become uniform and even?

**Options :**

1.  Sealant
2.  Silicon
3.  Plaster of Paris
4.  Putty

**Question Number : 12 Question Id : 493737942 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Name the medium used for thinning enamel putty?

**Note: For this question, discrepancy is found in question/answer. So, this question is ignored for all candidates.**

**Options :**

1. Water
2. Turpentine
3. N.C thinner
4. Spirit

**Question Number : 13 Question Id : 493737943 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which component is used to reduce the viscosity of the paint?

**Options :**

1.  Pigment
2.  Binder
3.  Solvent
4.  Additive

**Question Number : 14 Question Id : 493737944 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which type of corrosion creates small holes on metal surface?

**Options :**

1.  Galvanic
2.  Pitting
3.  Stress
4.  General

**Question Number : 15 Question Id : 493737945 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is coated to prevent iron from corrosion?

**Options :**

1.  Red oxide primer
2.  Zinc chromate
3.  Cement primer
4.  Lime wash

**Question Number : 16 Question Id : 493737946 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which is a double pack paint?

**Options :**

1.  Hammer tone
2.  Enamel paint
3.  N.C paint
4.  Epoxy paint

**Question Number : 17 Question Id : 493737947 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

How do spray guns work?

**Options :**

1.  With motor

- 2. With battery
- 3. With compressed air
- 4. With balloon

**Question Number : 18 Question Id : 493737948 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The failure of adhesion, rupture of paint film usually the top layer being removed as a skin is called

**Options :**

- 1. Sagging
- 2. Blooming
- 3. Bleeding
- 4. Peeling

**Question Number : 19 Question Id : 493737949 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Etch primer is mainly used for \_\_\_\_\_ surfaces.

**Options :**

- 1. ferrous metallic
- 2. non ferrous metallic
- 3. wooden
- 4. All of the options

**Question Number : 20 Question Id : 493737950 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What makes the paint opaque ?

**Options :**

- 1. pigment
- 2. binder
- 3. solvent
- 4. additive

**Question Number : 21 Question Id : 493737951 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

St 3 standard corresponds to which of the following surface preparation process ?

**Options :**

- 1. Abrasive blasting
- 2. Powertooling
- 3. Water jetting
- 4. Abrasive water jetting

**Question Number : 22 Question Id : 493737952 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

What are the effects of corrosion ?

**Options :**

1.  Safety is reduced
2.  Additional cost of maintenance
3.  Stained appearance
4.  All of the options

**Question Number : 23 Question Id : 493737953 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Emery paper is used for

**Options :**

1.  Roughening the surface
2.  Removing dust
3.  Giving a smooth finish
4.  Absorbing moisture

**Question Number : 24 Question Id : 493737954 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

In marine applications, anti-fouling paints are mainly used in which location ?

**Options :**

1.  Oil tanks
2.  Underwater hull area
3.  Water ballast tanks
4.  Accommodation inside area

**Question Number : 25 Question Id : 493737955 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which property of paints is related to its ability to catch fire ?

**Options :**

1.  Overcoating interval
2.  Flash point
3.  Gloss level
4.  Shelf life

**Question Number : 26 Question Id : 493737956 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

How much litres of a paint with spread rate 5 m<sup>2</sup>/L will be used for painting an area of 10 m<sup>2</sup> ?

**Options :**

- 1. 20 L
- 2. 0.2 L
- 3. 5 L
- 4. 2 L

**Question Number : 27 Question Id : 493737957 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The limit of relative humidity beyond which paint application is not desirable

**Options :**

- 1. 70%
- 2. 75%
- 3. 85%
- 4. 90%

**Question Number : 28 Question Id : 493737958 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

Which is the suitable tool used for mixing of paints ?

**Options :**

- 1. Stick
- 2. Stirrer
- 3. Grinding machine
- 4. None of the options

**Question Number : 29 Question Id : 493737959 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The temperature at which condensation starts on a surface is called

**Options :**

- 1. Dry bulb temperature
- 2. Wet bulb temperature
- 3. Dew point temperature
- 4. None of the options

**Question Number : 30 Question Id : 493737960 Question Type : MCQ Option Shuffling : Yes**

**Correct Marks : 1 Wrong Marks : 0**

The time required by the paint after mixing and before application is called

**Options :**

- 1. Induction time

2.  Shelf life
3.  Pot life
4.  Curing time