



UDUPI COCHIN SHIPYARD LIMITED

MALPE

Ministry of Ports, Shipping and Waterways, Govt. of India.

OBJECTIVE TYPE WRITTEN TEST TO THE POST OF SUPERVISOR MECHANICAL ON CONTRACT BASIS

08 November 2024

DURATION OF THE TEST : 45 Minutes

MAXIMUM MARKS : 40

DO NOT OPEN THIS QUESTION PAPER-CUM-ANSWER BOOKLET UNTIL ASKED TO DO SO

GENERAL INSTRUCTIONS

- ANSWER ALL QUESTIONS.** There shall be no negative marks.
- Answers are to be marked using ✓ mark against the most appropriate option among the options provided in the Question Booklet using BALL POINT PEN. (Blue or Black)**
- Rough work, if any, is to be done on space provided in the Question Booklet only. No separate sheet will be provided for rough work.
- Mobile, Electronic items etc., are not permitted inside the examination hall.**
- Normal type scientific calculators (Non programmable type) are allowed.**
- Candidates seeking, receiving and /or giving assistance during the test will be disqualified.
- The right to exclude any question (s) from final evaluation rests with UCSL.
- Do not seek any clarification on any item in the Question Booklet. Use your judgment.
- Write the Registration No. in all pages with signature.**

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Please fill in the following details using ball point pen.

Registration No.	
Signature of candidate	
Signature of invigilator	

**THIS QUESTION PAPER-CUM-ANSWER BOOKLET SHOULD BE HANDED OVER
TO THE INVIGILATOR ON COMPLETION OF THE TEST**

SUPERVISOR MECHANICAL ON CONTRACT BASIS

General Knowledge.

1. Which is the only body part that is fully grown from birth?
 - a. Eyes
 - b. Heart
 - c. Nail
 - d. Barin

2. What is the largest internal organ in the human body?
 - a. Bone
 - b. Liver
 - c. Nerve
 - d. blood veins

3. Which of the following Article of the Indian Constitution states "Equality of Opportunity in public employment"?
 - a. article 16
 - b. article 17
 - c. article 18
 - d. article 19

4. What is the boiling point of 'Heavy Water'?
 - a. 101.4 °c
 - b. 102.4 °c
 - c. 103.6 °c
 - d. None of the above

5. What is the freezing point of water in Celsius?
 - a. 0 degrees Celsius
 - b. -1 degrees Celsius
 - c. -0.1 degrees Celsius
 - d. -.2 degrees Celsius

General English

1. He went to the libraryto find that it was closed.

- a. seldom
- b. never
- c. only**
- d. solely

2. His directions misled us we did not know which of the two roads to take.

- a. complicated
- b. ambiguous**
- c narrow
- d. fantastic

3. Even after repeated warnings, he to office on time.

- a. never come
- b. never comes**
- c. is never coming
- d. have never come

4. Choose the correct antonym from the choices for each of the following capitalized words

SCEPTICAL

- a. Doubtful
- b. Convinced**
- c. Questioning
- d. Cynic

5. What is the antonym of the word “professional” w.r.t its usage in the passage?

- a. Competent
- b. Amateur**
- c. Master
- d. Polished

Reasoning

Reasoning A:

A, B, C, D, E, F and G are seven persons who travel to office everyday by a particular train which stops at five stations 1,2, 3, 4 and 5 respectively after leaving its base station.

- (i) Three among them get on the train at the base station.
- (ii) D gets down at the next station at which F gets down.
- (iii) B does not get down either with A or F.
- (iv) G alone gets on at station 3 and gets down with C after having passed one station.
- (v) A travels between only two stations and gets down at station 5.
- (vi) None of them gets on at station 2.
- (vii) C gets on with F but does not get on with either B or D.
- (viii) E gets on with two others and gets down alone after D.
- (ix) B and D work in the same office and they get down together at station 3.
- (x) None of them get down at station 1.

1. At which station does E get down?

- a. 2
- b. 3
- c. 4**
- d. Cannot be determined

2. At which station do both C and F get on?

- a. 1
- b. 2
- c. 4
- d. None of these**

3. At which of the following stations do B and D get on?

- a. 1
- b. 2
- c. 3
- d. Cannot be determined**

Reasoning :B

Directions for questions 4. To 5 : Read the following passage and solve the questions based on it.

A business school publishes three issues of their research Journal in a year. The editor decided that the upcoming three issues April, August and December would carry articles written by seven of the most reputed professors of the school. Each of the seven authors (T, U, V, W, X, Y and Z) will have at least one article published but some may have more than one article published. The following restrictions apply to the publication of the articles:

- (i) Each of the issues being prepared must contain at least two articles.
- (ii) Only these seven professors' articles can appear in the upcoming April, August and December issues.
- (iii) No author may publish in each of the two consecutively published issues or twice in the same issue.
- (iv) If an article written by T appears in an issue, then an article written by U must also appear in that issue.
- (v) If an article written by W appears in an issue, then an article written by Y must appear in the immediately preceding issue.
- (vi) An article written by Y cannot be published in an issue that contains an article written by Z.

4. If the April issue consists exclusively of articles written by T and U, then the August issue can consist exclusively of articles written by which of the following group of authors?

- a. V and X
- b. V and Y**
- c. W and Z
- d. V, Y and Z

5. If the April issue consists exclusively of articles written by U, V and Z, then the August issue must contain an article written by which of the following authors?

- a. W
- b. X
- c. Y**
- d. Z

Quantitative aptitude

1. The percentage increase in the area of a rectangle, if each of its sides is increased by 20% is:

- a. 40%
- b. 42%
- c. 44%**
- d. 46%

2. In a car race, car A beats car B by 45 km, car B beats car C by 50 km and (in km) over which the race has been conducted is:

Ans:

- a. 475
- b. 500
- c. 450**
- d. 550

3. Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is:

- a. 1: 3
- b. 3: 2**
- c. 3: 4
- None of these

4. A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, what is the length of the platform?

- a. 120 m
- b. 240 m**
- c. 300 m
- d. None of these

5. Which one of the following is not a prime number?

- a. 31
- b. 61
- c. 71
- d. 91**

**OBJECTIVE TYPE WRITTEN TEST TO THE POST OF
SUPERVISOR (Mechanical) ON CONTRACT ROLL**

1. The safest ladder to use around electricity is:
A) Wood
B) Aluminium
C) A smaller step stool
D) Fiberglass

2. Which classes of fires are caused by flammable liquids such as petrol, tar, paint?
A) Class A fires
B) Class B fires
C) Class C fires
D) Class D fires

3. Fire can be reduced by removing
A) Oxygen
B) Heat
C) Fuel
D) Any of above

4. A flat surface can be produced by a lathe machine, if the cutting tool moves ____
A) parallel to the axis of rotation of workpiece
B) perpendicular to the axis of rotation of workpiece
C) at an angle of 450
D) none of the above

5. The process of bevelling sharp ends of a workpiece is called as _____

A) Knurling
B) Grooving
C) Facing
D) chamfering

6. In an isolated system, _____ can be transferred between the system and its surrounding.
A) only energy
B) only mass
C) both energy and mass
D) neither energy nor mass

7. Which of the following energy conversion devices convert heat into work?
A) Electrical generators
B) I. C engines
C) Condensers
D) All of the above

8. What is meant by gear ratio?
A) The ratio of pinion speed and gear speed
B) The ratio of number of teeth on pinion and number of teeth on gear
C) Both a. and b.
D) None of the above
9. Factor of safety is the ratio of _____
A) working stress and ultimate strength
B) yield strength and endurance strength
C) ultimate strength and yield strength
D) yield strength and working stress
10. Ice kept in a well insulated thermos-flask is an example of which system
A) Closed system
B) Isolated system
C) Open System
D) Open System
E) Non-flow adiabatic system
11. Strain is _____
A) change in length per unit original length
B) result of load application on a body
C) change in metal and direction in metal
D) change in metal
12. Which of the following materials can be used for absorption of shock?
A) lead sheet
B) sawdust
C) wood
D) rubber
13. Which of the following is a power transmitting element?
A) Nuts and bolts
B) Sprockets and chains
C) Axles
D) All of the above
14. Which of the following is not a property of copper alloy?
A) High electrical conductivity
B) High thermal conductivity
C) High strength
D) None of the above

15. Which shielding gas is commonly used in TIG welding?

- A) Argon
- B) Hydrogen
- C) Oxygen
- D) Carbon dioxide

16. If there is no melting of the edges of the base metal at the root face or on the side face or between the weld runs, then it is _____

- A) Lac of penetration
- B) Lack of fusion
- C) Burn through
- D) Excessive penetration

17. What helps the pipe line to branch off at 90degree?

- A) Elbow
- B) Tee branch
- C) Plug
- D) Coupling

18. Which is used to connect pipes?

- A) Reducer
- B) Hexagonal nut
- C) Pipe nipples
- D) Union

19. Which of the following valves is used to prevent product flow in a wrong direction?

- A) Seat valve
- B) Half turn valve
- C) Check valve
- D) Butterfly valve

20. Which of the following are good conducters of heat and electricity

- A) Lead and Plastic
- B) Copper and aluminium
- C) Tin and plastic
- D) Gold and silver
