



UDUPI COCHIN SHIPYARD LIMITED

MALPE

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

OBJECTIVE TYPE WRITTEN TEST TO THE POST OF SUPERVISOR ELECTRICAL 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 ELECTRICAL 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 (ELECTRICAL) ON CONTRACT BASIS**

- 1) The power factor of a D.C circuit is always
 - a. Leading
 - b. Lagging
 - c. Unity
 - d. Zero

- 2) Which of the following is not a life saving appliance?
 - a. Lifebuoy
 - b. RADAR
 - c. Immersion Suit
 - d. Radio Transmission Beacon

- 3) When an alternative current passes through the ohmic resistance, the electric power is converted into heat is
 - a. Apparent Power
 - b. True Power
 - c. Reactive Power
 - d. None of the above

- 4) Kirchoff Law is applicable to
 - a. AC circuit only
 - b. DC circuit only
 - c. Both (a) and (b)
 - d. None of the above

- 5) The resistance of an ideal voltmeter is
 - a. Zero
 - b. Low
 - c. High
 - d. Infinity

- 6) Which statement is true
 - a. Ammeter has shunt
 - b. Voltmeter has shunt
 - c. Both (a) and (b)
 - d. None of the above.

- 7) If one ampere current is flowing through one ohm resistance which one is correct
 - a. 1 watt
 - b. 1 volt
 - c. 1 joule
 - d. None of the above.

- 8) What happens if load resistance increase, then current
 - a. Vary
 - b. Increase
 - c. Decrease
 - d. Remain constant

- 9) To protect electrical equipment against excessive current which of the following will be used
- Metallic sheath
 - Fuse wire
 - Insulated cover
 - Circuit open switch
- 10) For voltage boosting in distribution network the capacitor used is
- Series capacitor
 - Shunt capacitor
 - Both (a) & (b)
 - None of the above
- 11) In order to improve the power factor of equipment operating in lagging power factor, a capacitor is connected
- in series with the equipment
 - in parallel with the equipment
 - Both (a) and (b)
 - None of the above.
- 12) Which transformer connection shall not be used for parallel operation
- star-star & delta star
 - delta-delta & star delta
 - Both (a) and (b)
 - None of the above
- 13) When transformer is operated on full load the heat output of transformer for 160KVA shall be
- 2KW
 - 3KW
 - 4KW
 - 5KW
- 14) When number of cable trays are used the spacing between them should be
- 100mm
 - 150mm
 - 200mm
 - 300mm
- 15) The frequency of voltage generated by an alternator having 4 pole & rotating at 1500RPM is
- 50Hz
 - 60Hz
 - Both (a) and (b)
 - None of the above
- 16) Common method of extinguishing A class of fire is by using
- Co₂ extinguishing
 - Dry powder type of extinguisher
 - Foam type of extinguishers
 - None of the above

17)The wattmeter reads

- a. Instant power
- b. Average power
- c. Maximum power
- d. All the above

18)Every person who is working on electrical supply lines or apparatus shall be provided following tools and devices

- a. gloves
- b. Rubber shoes
- c. Tester and hand lines
- d. All the above

19) Neutral point of every generator shall be

- a. Earthed by connecting it to the earthing system by not less than 2 distinct connection
- b. Earthed by connecting it to the earth electrode by not less than 2 separate earth electrode
- c. Earthed by connecting it to the earth electrode by more than 2 separate earth electrode depends upon need
- d. All the above.

20)The two primary part of three phase induction motor are

- a. rotor and armature
- b. stator and rotor
- c. stator and field
- d. slip ring and armature