

COCHIN SHIPYARD LIMITED

(A Govt. of India Enterprise)

KOCHI -15

**OBJECTIVE TYPE WRITTEN TEST TO THE POST OF
ASSISTANT MANAGER (ELECTRICAL)**

15 JULY 2023

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

1. **ANSWER ALL QUESTIONS.** There shall be no negative marks.
2. **Answers are to be marked using ✓ mark against the most appropriate option among the options provided in the Question Booklet using BALL POINT PEN.**
3. 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.
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6. The right to exclude any question (s) from final evaluation rests with CSL.
7. Do not seek any clarification on any item in the Question Booklet. Use your judgment.

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Please fill in the following details using ball point pen.

Name of Candidate	
Registration No.	
Name of Post	
Signature of candidate	
Signature of invigilator	

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PHASE I (PART I)

OBJECTIVE TYPE TEST FOR THE POST OF ASSISTANT MANAGER (ELECTRICAL)

GENERAL KNOWLEDGE

1. Which day is observed as the National Safety Day in India ?

- a) 4 March
- b) 14 March
- c) 4 January
- d) 14 January

2. Fathom is the unit of ?

- a) Sound
- b) Depth
- c) Frequency
- d) Distance

3. The first chief information commissioner of India?

- a) A N Tiwari
- b) Satyananda Mishra
- c) Deepak Sandhu
- d) Wajahat Habibullah

4. INS Vikrant was commissioned on?

- a) 01.01.2023
- b) 02.09.2022
- c) 01.01.2022
- d) 15.08.2022

5. Human Development Report for each year at global level is published by

- a) WTO
- b) World Bank
- c) UNDP
- d) IMF

GENERAL ENGLISH

6. In the following question choose the correctly spelt word

- a) SCRPIURE
- b) SCRIPTUR
- c) SKRIPTURE
- d) SCRIPPTUR

(WITHDRAWN)

7. A person coming to a foreign land to settle

- a) Immigrant
- b) Visitor
- c) Tourist
- d) Emigrant

8. Select the correct active form of the given sentence-“Every passing vehicle was being thoroughly checked by the guards?”

- a) The guards have thoroughly checked every passing vehicle
- b) Every passing vehicle were thoroughly checking the guards
- c) The guards were thoroughly checking every passing vehicle
- d) The guards have been thoroughly checking every passing vehicle.

9. He does not _____ any misbehaviour in class?

- a) get through

- b) put up with
- c) get along with
- d) put down with

10. Choose correct plural of "Basis"

- a) Basis
- b) Basic
- c) Basises
- d) Bases

REASONING

11. Sachin is younger than Rahul by 4 years. If their ages are in the respective ratio of 7:9, how old is Sachin?

- a) 16 years
- b) 18 years
- c) 28 years
- d) None of these

12. If PIPE is written as 169165, then what is the last digit of SWAN ?

- a) 5
- b) 6
- c) 4
- d) 3

13. CMM, EOO, GQQ, ----, KUU, find the missing one in the series

- a) GRR
- b) GSS

c) ISS

d) ITT

14. Three of the following four words are alike in a certain way and one is different. Select the odd one.

a) Goggles

b) Spectacles

c) Bifocals

d) Optical Reader

15. Taxonomy : Classification :: Pedology :

a) Nature

b) Farming

c) Soil

d) Mountain

QUANTITATIVE APTITUDE

16. One fifth of a number exceeds one-seventh of the same by 10. The number is

a) 125

b) 150

c) 175

d) 200

17. If $0.75 : X :: 5 : 8$, the X equal to

a) 1.2

b) 1.12

c) 1.25

d) 1.3

18. The square root of 64009 is

a) 253

b) 357

c) 363

d) 807

19. The ratio of 5:4 expressed as a percent equals?

a) 12.5%

b) 40%

c) 80%

d) 125%

20. Find the radius in cm of a sphere whose volume is $36\pi\text{cm}^3$

a) 3

b) 6

c) 4

d) None of these

SUBJECT BASED

21. To step down 110V AC to 20V AC, the turnratio of a transformer must be?

a) 5.5

b) 18

c) 0.18

d) 0.018

22. The effect of increasing the length / id air-gap in an induction motor will be to increase the?

- a) Power factor
- b) Speed
- c) Magnetising
- d) Air-gap flux

23. Crawling in AC induction motor can be minimized by optimizing?

- a) 1st and 3rd Harmonics
- b) 5th and 7th Harmonics
- c) 3rd and 5th Harmonics
- d) 1st and 3rd Harmonics

24. Ideal sacrificial device for clamping AC over voltages and surges is?

- a) MCB
- b) MOV
- c) MPCB
- d) Line fuse

25. The value of diversity factor is always?

- a) $0 < DF < 1$
- b) $DF < 0$
- c) $DF < 1$
- d) $DF > 1$

26. Three pumps are operating in series with discharge of one pump feed to suction of other. There will have significant increase in?

a) Head

b) Discharge

c) Viscosity

d) No change

27. Full form of ICCP?

a) Integrated Current Cathodic Protection

b) Inverting Current Cathodic Protection

c) Induced Current Cathodic Protection

d) Impressed Current Cathodic Protection

28. The direction of rotation of a single-phase capacitor run induction motor can be reversed by?

a) Interchanging terminals of AC supply

b) Interchanging terminals of Capacitor

c) Interchanging terminals of Auxiliary winding

d) No possible to reverse the direction

29. The rated voltage of 3-Phase power system is given as?

a) RMS Phase Voltage

b) Peak Phase Voltage

c) Peak line to line voltage

d) RMS Line to line voltage

30. In delta-star connection the shift in primary voltage to secondary voltage is?

a) -30

b) 30

- c) 45
- d) -180

31. The direction of rotation of a single phase capacitor run induction motor is reversed by

- a) Interchanging the terminals of AC supply
- b) Interchanging the terminals of Capacitor
- c) Interchanging the terminals of Auxiliary winding
- d) Interchanging the terminals of both the windings

32. The following motor definitely has permanent magnet rotor?

- a) DC Commutator Motor
- b) BLDC Motor
- c) Slip ring induction Motor
- d) Squirrel cage induction motor

33. Two incandescent light bulbs of 40W and 60W rating are connected in series across the mains. Then

- a) The bulbs together consume 100W
- b) The bulbs together consume 50W
- c) The 60W bulb glows brighter
- d) The 40W bulb glows brighter

34. The output of a logic gate is "1" when all its inputs are at logic "0". The gate is either

- a) ANAND or an EX-OR gate
- b) A NOR or an EX- OR gate
- c) An AND or an EX-NOR gate

d) An NOR or an EX-NOR gate

35. Signal flow graph is used to obtain the

- a) Stability of a system
- b) Transfer function of a system
- c) Controllability of a system
- d) Observability of a system

36. Inside a hollow conducting sphere

- a) Electric field is zero
- b) Electric field is a non-zero constant
- c) Electric field changes with the magnitude of the charge given to the conductor
- d) Electric field changes with distance from the centre of the sphere

37. The selection of size of conductors for a distributor in a distribution system is governed by

- a) Corona Loss
- b) Temperature Rise
- c) Radio Interference
- d) Voltage Drop

38. A negative sequence relay is commonly used to protect

- a) An Alternator
- b) A Transformer
- c) A Transmission Line
- d) A Bus Bar

39. Damper winding is provided in a poly-phase synchronous motor in order to

- a) Damp out the noise of the machine
- b) Prevent hunting
- c) Provide starting torque
- d) Provide a cylindrical structure to reduce wind friction

40. For a feedback control system of type 2, the steady state error for a ramp input is

- a) Infinite
- b) Constant
- c) Zero
- d) Intermediate

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PHASE I (PART I)

**OBJECTIVE TYPE TEST FOR THE POST OF ASSISTANT MANAGER (FINANCE)
FOR CKSRU**

GENERAL KNOWLEDGE

1. President Droupadi Murmu was conferred with 'The Grand Order of the Chain of Yellow Star', the highest civilian honor of which country?
 - a) Fiji
 - b) Suriname**
 - c) Samoa
 - d) Papua New Guinea

2. Which state is set to develop the Konark Sun Temple Complex?
 - a) West Bengal
 - b) Odisha**
 - c) Assam
 - d) Chhattisgarh

3. Which one of the following ports is the oldest port in India?
 - a) Mumbai Port
 - b) Chennai Port**
 - c) Kolkata Port
 - d) Vishakhapatnam Port

4. INS Vikrant was commissioned on?
 - a) 01.01.2023
 - b) 02.09.2022**

- c) 01.01.2022
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5. Chelaiya Samiti is related to which of the following?

- a) Banking sector
- b) Insurance sector
- c) Health Sector
- d) Tax reforms

GENERAL ENGLISH

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b) Basic

c) Basises

d) Bases

REASONING

11. Pointing to an image Madhu tells Sohan, "I am the only daughter of this lady, and her son is your maternal uncle." How is the Madhu related to Sohan's father?

a) Sister

b) Wife

c) Sister-in-law

d) None of the above

12. If PIPE is written as 169165, then what is the last digit of SWAN ?

a) 5

b) 6

c) 4

d) 3

13. What will be the missing letters in the series BKK, DMM, FOO, __, JSS?

a) HTT

b) **HQQ**

c) HPP

d) None of the above

14. Three of the following four words are alike in a certain way and one is different.

Select the odd one.

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b) 150

c) **175**

d) 200

17. If $0.75 : X :: 5 : 8$, the X equal to

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19. The ratio of 5:4 expressed as a percent equals?

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- b) 40%
- c) 80%
- d) 125%

20. Find the radius in cm of a sphere whose volume is $36\pi\text{cm}^3$

- a) 3
- b) 6
- c) 4
- d) None of these

SUBJECT BASED

21. Patents, Copyrights and Trademarks are

- a) Current assets
- b) Fixed assets
- c) Intangible assets**
- d) Investments

22. Dividend from British Co. of Rs. 2,00,000 received in London will be taxable in case of:

- a) Resident and ordinary resident (ROR) only**
- b) Not ordinary resident (NOR) only
- c) Non resident (NR) only
- d) ROR, NOR and NR all

23. Property, plant, and equipment are conventionally presented in the balance sheet at

- a) Replacement cost less accumulated depreciation
- b) Historical cost less salvage value**
- c) Historical cost less depreciation portion thereof
- d) Original cost adjusted for general price-level changes

24. Amounts paid for wages, salary, carriage of goods, repairs, rent, and interest, etc. are items of

- a) Capital expenditure
- b) Revenue expenditure**
- c) Deferred revenue expenditure
- d) None of the above

25. Amounts paid for wages, salary, carriage of goods, repairs, rent, and interest, etc. are items of

- a) Capital expenditure
- b) Revenue expenditure
- c) Deferred revenue expenditure
- d) None of the above

26. A copy of the financial statements, including consolidated financial statement, along with all the documents attached to financial statements, duly adopted at the AGM, shall be filed with the Registrar within ____ of the date of AGM in a prescribed manner along with prescribed fees.

- a) 10 days
- b) 30 days
- c) 60 days
- d) 90 days

27. As per the provisions of the Companies Act, 2013, the amount of the dividend, including interim dividend, shall be deposited in a scheduled bank in a separate account within ____ from the date of declaration of such dividend.

- a) 30 days
- b) 15 days
- c) 10 days
- d) 5 days

28. A product is sold at a price of ₹ 120 per unit and its variable cost is ₹ 80 per unit. The fixed expenses of the business are ₹ 8,000 per year. Break-even point is

- a) ₹ 24,000
- b) ₹ 120,000
- c) ₹ 116,000
- d) ₹ 28,000

29. Which of the following is not applied in Management Accounting?

- a) Comparative Statement
- b) Managerial reporting
- c) Double-entry system
- d) Operation research

30. Current ratio is 2.5 and the liquid ratio is 1.5. Working capital is ₹ 75,000. The value of the stock held will be

- a) 60,000
- b) 100,000
- c) 50,000
- d) None of the above

31. In an organization, working capital is ₹ 1,00,000 and current ratio 3:1. The value of current assets is

- a) 150,000
- b) 100,000
- c) 50,000
- d) 15,000

32. Which of the following can be used for issuing bonus shares?

- a) Capital Redemption Reserve
- b) Securities Premium Account
- c) Profit and Loss Account
- d) Any of the above

33. Every company is required to furnish Director Identification Numbers of all its directors to the Registrar within ----- of the receipt of intimation regarding DIN from the directors.

- a) ten days
- b) fifteen days
- c) twenty days
- d) thirty days

34. In case of a company where minimum ----- per cent members (in number) are relatives of promoters or are related parties, they are not precluded from voting on a resolution for approving any related party transaction.

- a) 80
- b) 85
- c) 90
- d) 95

35. A group of creditors of X Limited makes a complaint to the Registrar of Companies. They asserted that the management of the company is indulged in destruction and falsification of the accounting records of the company. The complainants request the Registrar to take an immediate step to stop the management to tamper with the records. The complaint was received in the

morning on 1st January 2019 and the ROC entered the premises within half an hour for the search. The course of action that can be taken by Registrar are:

- a) Registrar may enter and search the place where such books or papers are kept and seize them.
- b) Registrar may enter and search the place where such books or papers are kept and can seize only after obtaining an order from the special court.
- c) Registrar may enter and search the place where such books or papers are kept only on the order of the NCLT.
- d) Registrar may enter and search the place where such books or papers are kept and give an opportunity to the company to represent why such documents may not be seized.

36. What is the due date for payment of TDS?

- a) Last day of the month to which payment relates
- b) Within 10 days of the subsequent month
- c) Within 20 days of the subsequent month
- d) Within 15 days of the subsequent month

37. In order to process TDS statements on computer, electronic processing on the same lines as processing of income-tax returns has been provided in section .

- a) 202
- b) 200A
- c) 202A
- d) 206

38. Countervailing duty under section 9 of the Customs Tariff Act shall not be levied unless it is determined that:

- (i) Subsidy relates to export performance;
- (ii) Subsidy relates to use of domestic goods over imported goods in export article;
- (iii) Subsidy is conferred on all persons engaged in the manufacture of export article.

- a) All of above
- b) Only (iii)
- c) (ii) and (iii)
- d) (i) and (ii)

39. Mr. A in Rajasthan delivers goods in Rajasthan itself to B. Such delivery was on direction of C situated at Pune, which of the following is true,

- a) A will charge IGST to C
- b) C will charge IGST to B
- c) Both (a) and (b)
- d) None (a) and (b)

40. As per SA 550 on Related Parties, existence of which relationship indicate the presence of control or significant influence?

- (a) Friend of a family member of a person who has the authority and responsibility for planning.
- (b) Holding debentures in the entity.
- (c) The entity's holding of debentures in other entities.
- (d) The entity's holding of equity in other entities.

PHASE I (PART I)

**OBJECTIVE TYPE TEST FOR THE POST OF ASSISTANT MANAGER (SAFETY)
FOR CKSRU**

GENERAL KNOWLEDGE

1. The common wealth games 2026, will be held in _____?
 - a) Rwanda
 - b) Scotland
 - c) Australia**
 - d) England

2. M. A Chidambaram stadium is located in which city?
 - a) Chennai**
 - b) Patna
 - c) Mumbai
 - d) Kanpur

3. A museum for all prime ministers of the country inaugurated by Sri. Narendra Modi is situated in the
 - a) Nehru Memorial Museum and Library, New Delhi.**
 - b) Indira Gandhi Memorial Museum, New Delhi
 - c) Gandhi Smriti Museum, New Delhi
 - d) National Gallery, New Delhi

4. INS Vikrant was commissioned on?
 - a) 01.01.2023
 - b) 02.09.2022**
 - c) 01.01.2022
 - d) 15.08.2022

5. The ratio of width of our National Flag to its length is

- a) 3 : 5
- b) 2 : 3
- c) 2 : 4
- d) 3 : 4

GENERAL ENGLISH

6. The expenditure ____ milk has gone up during the last one month.

- a) at
- b) to
- c) by
- d) on

7. Rajanikant was _____ for his blasphemous statements on the religious leaders.

- a) excommunicated
- b) applauded
- c) Congratulated
- d) Saluted

8. Gowri's heart ____ at the sight of the beautiful jewellery

- a) Leapt
- b) Stopped
- c) Slowed
- d) Broken

9. He is so ____ to light that he never leaves the house without sunglasses

- a) Insensitive
- b) Sensitive
- c) Immune
- d) Sincere

10. He ____ through the nose for the delay in taking timely action

- a) Said
- b) Saw
- c) Paid
- d) Got

REASONING

Study the following information carefully and answer the questions given below

Five boxes namely P, Q, R, S and T are kept above one another. Each box has a different colour viz. red, blue, white yellow and pink but not necessarily in the same order. Only two boxes are kept between R and the white box. Only one box is kept between R and S. Only two boxes are kept between the yellow and blue boxes. the yellow box is kept at one of the positions above the blue box. the yellow box is not kept at the top most position. as many boxes are kept between the white and the blue boxes as between T and the pink box. T is kept at one of the positions below S. Q is kept at one of the positions above 'P'.

11. What is the position of the pink box in the given stack of boxes?

- a) Third from the top
- b) First from the top
- c) Second from the bottom

d) Immediately below P

12. Which of the following pairs of boxes is kept between the yellow and the blue boxes?

a) The red and the white boxes

b) S and the white box

c) T, R

d) T and the red box

13. How many boxes are kept between Q and the white box?

a) Two

b) None

c) One

d) Three

14. Which of the following statements is/are true with respect to the given arrangement?

(i) T is kept exactly between R and S (ii) T is the yellow box

(iii) R is the red box

a) Both (ii) and (iii)

b) Only (i)

c) Only (iii)

d) Both (i) and (iii)

15. Which of the following represents the colour of Box P?

- a) Pink
- b) White
- c) Red
- d) Blue

QUANTITATIVE APTITUDE

16. 12 men can do a work in x days and 20 woman can do the same work in $(x-1)$ days. 15 men can do the work in y days, while 30 women can do it in $(y-2)$ days.

Find the value of 'x'?

- a) 8
- b) 10
- c) 12
- d) 15

17. The value of a machine depreciates at the rate of 20% per annum. if its present value is Rs. 96,000/- what was the value of the machine (in Rs.) 2 years ago.

- a) 1,38,240
- b) 1,34,400
- c) 1,50,000
- d) 1,44,000

18. A sum of Rs. 8000 was borrowed at compound interest at the rate of 7% per annum. What will be the amount (in Rs.) after 2 years?

- a) 11,154.4
- b) 13,600

c) 9,159.2

d) 9428.6

19. The cost price of a cooler is Rs. 8,400/-. if the profit margin is 26% what is the selling price of the cooler (in Rs.)

a) 11,351

b) 6,667

c) 10,584

d) 9,564

20. Rohit crosses a 700 meter wide road in 35 seconds. what is his speed (in km/hr)?

a) 54

b) 76

c) 72

d) 84

SUBJECT BASED

21. An employee fell from a broken ladder and sustained an injury. What among these shall be considered as a root cause for this incident?

a) The ladder had a broken rung.

b) The ladder's safety certificate was not attached to the ladder.

c) The employee was not trained in ladder use and how to recognize unsafe ladder.

d) Safety personnel did not inspect the ladder before issuing the ladder to the employee.

22. Which type of ventilation system is the most effective for a painting job inside tank?

- a) Exhaust ventilation
- b) Dilution ventilation
- c) Exhaust cum Dilution ventilation
- d) Local exhaust ventilation

23. The primary objective of a work place safety inspection is to

- a) Discover situation that violate Factories Act 1948
- b) Discover areas that is to be included in the next employees refresher training program
- c) Identify the accident rate and severity rate
- d) Identify and correct unsafe act and unsafe conditions.

24. The first step in responding to a spill of a hazardous substance is to

- a) Contain the spill
- b) Clean up the spill
- c) Ensure that people are protected.
- d) Identify the spilled substance.

25. Which chapter of the factories act deals with the provisions relating to hazardous processes?

- a) Chapter IV A
- b) Chapter V
- c) Chapter III

d) Chapter VI A

26. The “DANGER” symbols used in various chemicals and paints indicate that:

There is an immediate hazard which if encountered will result in?

- a) Death or personal injury
- b) Death, Severe personal injury and Property damage
- c) Death, Property damage, product damage and personal injury.
- d) Death, loss of livelihood and property damage

27. Which ISO standard addresses Occupational Health and Safety management systems

- a) 9001
- b) 45001
- c) 14001
- d) 18001

28. In case you have to shift a load of 50 Kg, the safest method used to shift it

- a) Lift it and place it
- b) Push the load
- c) Pull the load
- d) All of the above

29. The first thing to do with a fire on electrical equipment is to

- a) Stop the flow of electricity
- b) Use CO 2 Extinguisher
- c) Use DCP Extinguisher
- d) Inform safety officer

30. LPG cannot be used in confined spaces. Because

- a) It is denser
- b) It is Lighter
- c) It leads to back fire
- d) It gives a lot of black smoke

31. The minimum temperature of a vapor and air mixture at which it is marginally self-igniting in the absence of an independent ignition source such as a spark or flame is called

- a) Flash point
- b) Fire Point
- c) Auto ignition temperature
- d) Pour Point

32. Under the Factories Act, 1948, the ultimate control over the affairs of factory is with-----

- a) Chairman
- b) Managing Director
- c) Manager
- d) Occupier

33. A radiant energy-sensing fire detector that detects the radiant energy emitted by a flame (infrared, ultraviolet, or visible radiation) is called.

- a) Flame Detector
- b) Smoke detector
- c) Heat detector

- d) Ionization detector
34. Full form of NFPA
- a) National Fire Prevention Association
 - b) National Fire Protection Association**
 - c) National Fire Protection Agency
 - d) National Fire Prevention Agency
35. Arc blast is caused by
- a) Poor contact with electrical wire splices
 - b) Failure to lock out and tag out electrical**
 - c) Discharge of high electrical current through open
 - d) Radio frequency emissions from high power transmitter
36. Purpose of CPR is to
- a) Maintain oxygenated blood circulation**
 - b) Stabilize body temperature to avoid hypothermia
 - c) Build upper body strength
 - d) All of the above
37. The very first thing you should do if you are the first to witness or discover an accident on the job site is to
- a) Go find at least one co-worker to help you so you can work in team
 - b) Go to the scene and help the person injured
 - c) Activate the emergency response system**
 - d) All of the above

38. When LPG escapes from its container, it will travel _____ with the prevailing wind currents in the area.

- a) Upward
- b) Downward
- c) Horizontal
- d) None of the above

39. The provision for cooling water during hot weather should be made by the organization if it employs -----or more employees

- a) 100
- b) 150
- c) 250
- d) 300

40. As per the factories act 1948, what is the working hour for adult -----

- a) 48
- b) 40
- c) 54
- d) 45
