COCHIN SHIPYARD LIMITED

(A Govt. of India Enterprise) KOCHI -15

OBJECTIVE TYPE WRITTEN TEST TO THE POST OF PROJECT ASSISTANT (MECHANICAL)

04 JANUARY 2025

DURATION OF THE TEST: 65 Minutes

MAXIMUM MARKS: 80

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 $\sqrt{}$ 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.
- 4. Calculators, Mobile, Electronic items etc., are not permitted inside the examination hall.
- 5. Candidates seeking, receiving and /or giving assistance during the test will be disqualified.
- 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.

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Name of Candidate	
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Registration No.	
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THIS QUESTION PAPER-CUM-ANSWER BOOKLET SHOULD BE HANDED OVER
TO THE INVIGILATOR ON COMPLETION OF THE TEST

OBJECTIVE TYPE TEST FOR THE POST OF PROJECT ASSISTANT (MECHANICAL) ON CONTRACT BASIS FOR CKSRU, KOLKATA

GENERAL KNOWLEDGE (1 mark each)

1.	Which	major	initiative	is	associated	with	the	Ministry	of	Shipping	to	enhance	port
	infrasti	ructure	and con	nec	tivity.								

- a) Sagarmala Project
- b) Bharatmala Pariyojana
- c) Pradhan Mantri Awas Yojana
- d) Swachh Bharat Mission
- 2. Which Indian city is known as the "Silicon Valley of India".
 - a) Mumbai
 - b) Chennai
 - c) Hyderabad
 - d) Bengaluru (Bangalore)
- 3. Who was the first Indian woman to go to space.
 - a) Rakesh Sharma
 - b) Kalpana Chawla
 - c) Sunita Williams
 - d) Valentina Tereshkova
- 4. Who was the first woman to win the Booker Prize?
 - a) Arundhati Roy
 - b) Kiran Desai
 - c) Shashi Tharoor
 - d) R. K. Narayan

	a) United Nations Economic and Social Council
	b) United Nations Educational, Scientific and Cultural Organization
	c) United Nations Environment and Science Organization
	d) United Nations Economic and Social Organization
	d) Office Nations Economic and Social Organization
REASO	NING (1 mark each):
6. If "ZE	BRA" is written as "AFCSB", how would "LION" be written in the same code
	a) <mark>MJPO</mark>
	b) MKOQ
	c) MIPO
	d) MKPN
_	son walks 10 meters North, then 5 meters West, then 10 meters South, and the ters East. How far is the person from his starting point.
o me	a) 5 meters
	b) 10 meters
	b) 10 meters c) 0 meters
	c) <mark>0 meters</mark>
8. If A is	c) 0 meters d) 15 meters
8. If A is C.	c) 0 meters d) 15 meters
	c) 0 meters d) 15 meters
	c) 0 meters d) 15 meters s the father of B, and B is the mother of C, what is the relationship between A a
	c) 0 meters d) 15 meters s the father of B, and B is the mother of C, what is the relationship between A a a) Father

9. If Tom is taller	than Jerry, and Jerry is taller than Harry, who is the shortest?
a) 7	Гот
b) c	Jerry
c) <mark>1</mark>	Harry
d) (Can't be determined
10. Which one of t	he following is the odd one out.
a) A	Apple
b) I	Banana
c) I	Mango
d) (Carrot
Quantitative Aptit	ude : (1 mark each)
11. A can do a pie	ece of work in 20 days, and B can do the same work in 30 days. How
many days will	they take to complete the work together.
a)	12 Days
b)	14 Days
c)	15 Days
d)	16 Days
12. A person buys	an article for ₹500 and sells it for ₹600. What is his profit percentage.
a)	10%
b)	15%
c)	20%
d)	25%

13. A cyc	
	a) 1 hour
	b) 2 hours
	c) 3 hours
	d) 4 hours
14. A sur	m of ₹8000 is invested at 5% simple interest per annum for 3 years. What is
intere	st earned.
	a) ₹1200
	b) ₹1500
	c) ₹ 2000
	d) ₹ 1800
15. The s	sum of the ages of a mother and her daughter is 60 years. The mother is 36 ye
	sum of the ages of a mother and her daughter is 60 years. The mother is 36 years than her daughter. What are their present ages.
	than her daughter. What are their present ages.
	than her daughter. What are their present ages. a) Mother is 48, Daughter is 12
	than her daughter. What are their present ages. a) Mother is 48, Daughter is 12 b) Mother is 50, Daughter is 14
older	than her daughter. What are their present ages. a) Mother is 48, Daughter is 12 b) Mother is 50, Daughter is 14 c) Mother is 52, Daughter is 8
older	than her daughter. What are their present ages. a) Mother is 48, Daughter is 12 b) Mother is 50, Daughter is 14 c) Mother is 52, Daughter is 8 d) Mother is 54, Daughter is 6
older	than her daughter. What are their present ages. a) Mother is 48, Daughter is 12 b) Mother is 50, Daughter is 14 c) Mother is 52, Daughter is 8 d) Mother is 54, Daughter is 6 son runs 200 meters in 20 seconds. What is his speed in meters per second.
older	than her daughter. What are their present ages. a) Mother is 48, Daughter is 12 b) Mother is 50, Daughter is 14 c) Mother is 52, Daughter is 8 d) Mother is 54, Daughter is 6 son runs 200 meters in 20 seconds. What is his speed in meters per second. a) 8 m/s

17. A shopkeeper sel	ls an article at ₹960 after giving a 20% discount. What is the cost price
of the article if the	e shopkeeper gains a profit of 20%.
a)	₹800
b)	₹700
c)	₹850
d)	₹750
18. A car travels 60 k	cm in 1 hour. What is its speed in meters per second?
a)	16.67 m/s
b)	30 m/s
c)	15 m/s
d)	10 m/s
a) b) c) d) 20. What is the avera a) 1 b) 1 c) 1	19.5
d) 2	<mark>.0.5</mark>

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General English: (1 mark each)

a) Ugly

b) Pretty

21. What is the synonym of the word "Beautiful".

c) Rough	
d) Weak	
22. What is the plural form of	"Child".
a) Childs	
b) Childes	
c) <mark>Children</mark>	
d) Childrens	
23. Which is the correct form	of the verb in this sentence.
"She to the market	every day."
a) Go	
b) <mark>Goes</mark>	
c) Going	
d) Gone	
24. Complete the Sentence. "S	he is afraid the dark."
a) With	
b) For	
c) Of	
d) At	

a)	Ordinary	
b)	Creative and no	<mark>ew</mark>
c)	Useless	
d)	Repeated	
26. Choose the	e correct option.	"The train at 6:00 AM tomorrow."
<mark>a)</mark>	Leaves	
b)	Leave	
c)	Leaving	
d)	Left	
27. What does t	the idiom "Piece	of cake" mean.
a)	Something deli	cious
b)	Something very	<mark>/ easy</mark>
c)	A part of a larg	er thing
d)	A reward	
28. Choose the	e correct option.	"The train at 6:00 AM tomorrow."
a)	Leaves	
b)	Leave	
c)	Leaving	
d)	Left	(WITHDRAWN DUE TO REPITITION)

25. What does the word "Innovative" mean.

29. Choose the correct article. "He is honest man."
a) A
b) <mark>An</mark>
c) The
d) None
30. Choose the word that best fits the blank: She is very and always helps others.
a) <mark>Kind</mark>
b) Loud
c) Shy
d) Angry
SUBJECT BASED (2 mark each)
31. In a Diesel cycle, the combustion process occurs at.
a) <mark>Constant pressure</mark>
b) Constant volume
c) Constant temperature
d) Grinding
32. Which type of stress occurs when a material is subjected to a force that tends to twist
it.
a) Tensile stress
b) Compressive stress
c) Shear stress
d) Torsional Stress

33. A four-stroke diesel engine does not have.
a) Cooling system
b) Ignition coil
c) Cam shaft
d) Piston Rings
34. Feeler gauge is used for measuring.
a) Depth
b) Diameter
c) <mark>Gap</mark>
d) Length
35. Instrument used to measure speed in rpm of the rotating machinery.
a) Anemometer
b) Spectrometer
c) Tachometer
d) Clinometer
36. Name the property of metal which can be drawn into wires without rupture.
a) <mark>Ductility</mark>
b) Tenacity
c) Elasticity
d) Malleability

welding.	
a)	Slag inclusion
b)	Porosity
c)	Burn-through
d)	Overlap
38. What is us	sed to shield the weld area in TIG welding.
a)	A metal cover
b)	Inert gas (like argon)
c)	Electric Current
d)	Heat-resistant gloves
39. Which unit	is commonly used to measure stress.
a)	Kilograms (kg)
	Kilograms (kg) Newtons per square meter (N/m²)
b) c)	Newtons per square meter (N/m²)
b) c)	Newtons per square meter (N/m²) Meters (m)
b) c) d)	Newtons per square meter (N/m²) Meters (m)
b) c) d)	Newtons per square meter (N/m²) Meters (m) Joules (J)
b) c) d) 40. What is the	Newtons per square meter (N/m²) Meters (m) Joules (J) e unit of shear force.
b) c) d) 40. What is the	Newtons per square meter (N/m²) Meters (m) Joules (J) e unit of shear force. Newtons (N)
b) c) d) 40. What is the a) b)	Newtons per square meter (N/m²) Meters (m) Joules (J) e unit of shear force. Newtons (N) Meters (m)
b) c) d) 40. What is the a) b) c)	Newtons per square meter (N/m²) Meters (m) Joules (J) e unit of shear force. Newtons (N) Meters (m) Pascals (Pa)
b) c) d) 40. What is the a) b) c)	Newtons per square meter (N/m²) Meters (m) Joules (J) e unit of shear force. Newtons (N) Meters (m) Pascals (Pa)

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37. What defect occurs when gas bubbles become trapped in the molten metal during

41. The relati	onship between stress and strain in the elastic region of a material is
described by w	nich law.
a)	Hooke's Law
b)	Newton's Law
c)	Bernoulli's Principle
d)	Pascal's Law
42. Which of	the following gases is commonly used as a shielding gas in welding.
a)	Nitrogen
b)	Fluorine
c)	Argon Argon
d)	Chlorine
42 In a mafini	consticus carelo archicle commune ant in more careille for choosehing hoot from the
	geration cycle, which component is responsible for absorbing heat from the
space to be coo	lea.
a)	Condenser
b)	Evaporator
c)	Compressor
d)	Expansion valve
	main environmental concern associated with the use of refrigerants like
R-22.	
a)	High cost
b)	Toxicity
c)	Ozone depletion
, d)	Flammability
,	

a)	The moment caused by axial loads on a structure
b)	The rotational force applied to a shaft
c)	The force that causes a structural member to bend
d)	The shear force acting perpendicular to a beam
46. The ability o	of a material to absorb energy and plastically deform without fracturing is
a)	Brittleness
b)	Hardness
c)	Toughness
d)	Elasticity
47. Which test	is commonly used to determine the impact strength of a material.
a)	Tensile test
b)	Compression test
c)	Charpy test
d)	Hardness test
48. What is the	primary function of a forklift in material handling.
a)	To lift materials to a higher position
b)	To move materials horizontally over long distances
c)	To stack materials in high places
d)	To carry materials for inspection
,	- control - cont
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45. What does the term "bending moment" refer to in mechanical engineering.

industrial applic	cations.
a)	Diaphragm pump
b)	Centrifugal pump
c)	Gear pump
d)	Piston pump
50. What does E	OT in "EOT crane" stand for.
a)	Electrical Overhead Transport
b)	Electric Operated Transport
c)	Electric Overhead Travelling
d)	Engine Operated Travelling
51. Which mate	erial is commonly used for manufacturing cutting tools?
a)	Cast Iron
b)	High Speed Steel
c)	Aluminium
d)	Copper
52. What is the	primary purpose of cutting fluids in machining operations?
a)	To lubricate the tool
b)	To cool the material
c)	To reduce friction
d)	All of the above

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49. Which type of pump is most commonly used for pumping large quantities of water in

a)	Lathe
b)	Shaper
c)	Press
d)	Milling Machine
54. Which macl	hining process is used to create holes in materials?
a)	Turning
b)	Milling
c)	Drilling
d)	Grinding
,	
a) b)	Casting Forging
b) c)	Forging Extrusion
b) c)	Forging
b) c) d)	Forging Extrusion
b) c) d)	Forging Extrusion Welding
b) c) d)	Forging Extrusion Welding
b) c) d)	Forging Extrusion Welding
b) c) d)	Forging Extrusion Welding