COCHIN SHIPYARD LIMITED

(A Govt. of India Enterprise) KOCHI -15

OBJECTIVE TYPE WRITTEN TEST TO THE POST OF SENIOR PROJECT OFFICER (CIVIL)

20 SEPTEMBER 2023

DURATION OF THE TEST: 60 Minutes

MAXIMUM MARKS: 50

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.
- 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.

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

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

PHASE I

OBJECTIVE TYPE TEST FOR THE POST OF SENIOR PROJECT OFFICER (CIVIL) ON CONTRACT BASIS FOR CKSRU, KOLKATA

GENERAL KNOWLEDGE

1.	Who	is	the	author	of	the	famous	book	"The	Unbearable	Lightness	of Being	" who
	passe	ed	awa	y recent	ly								

- a) Orhan Pamuk
- b) Milan Kundera
- c) Ruskin Bond
- d) Rudyard Kipling
- 2. 15 September is celebrated as Engineer's Day in honour of
 - a) A P J Abdul Kalam
 - b) M Visvesvaraya
 - c) Vikram Sarabhai
 - d) B C Roy
- 3. When was the first Indian lunar probe Chandrayaan-1 launched?
 - a) 2002
 - b) 2008
 - c) 2013
 - d) 2017
- 4. Which Indian shipbuilding company constructed the Indigenous aircraft carrier for Indian Navy
 - a) Garden Reach Shipbuilders & Engineers

	b)	Goa Shipyard Limited
	c)	Cochin Shipyard Limited
	d)	Mazagon Dock shipbuilders Limited
5. Recen	tly litl	nium reserves were discovered in following states/union territories in
India		
	a)	Jammu & Kashmir, Rajasthan
	b)	Jammu & Kashmir, Jharkhand
	c)	Jammu & Kashmir, Odisha
	d)	Rajasthan, Odisha
6. GDP o	f India	a is currently largest in the world
	a)	Second
	b)	Third
	c)	Seventh
	d)	Fifth Control of the
7. In Apr	ril 202	2, which scheme was selected for PM's Award for Excellence in Public
Admin	istrati	on?
	a)	Smile
	b)	Beti Bachao Beti Padhao
	c)	UDAN
	d)	Make in India
8. Which	of the	e following books is written by Rajendra Prasad?
	a)	India Divided
	b)	An Autobiography: Towards Freedom
	c)	The Discovery of India
	d)	Glimpses of World History

9		is also known as 'The Light of Asia'.
	a)	Rumi
	b)	Buddha
	c)	Gandhi
	d)	Swami Vivekananda
10. Who i	s the	e architect of the city Chandigarh?
	a)	Zaha Hadid
	b)	Edward Lutyens
	c)	Le Corbusier
	d)	Anish Kapoor
SUBJECT B	ASEI	<u>D</u>
11.When	a b	ody is subjected to three mutually perpendicular stresses, of equal
intens	ity, t	he ratio of direct stress to the corresponding volumetric strain is known
as		
	a) '	Young's modulus.
	b)]	Modulus of rigidity.
	c)]	Bulk modulus
	d) 1	Poisson's ratio
12. Crushin	g stre	ength of a first class brick should not be less than
	a) 3	3.5 N/mm2
	b) '	7 N/mm2
	c)	10.5 N/mm ²
	d)	14.0 N/mm2

	a)	Bending moment is maximum.
	b)	Shearing force is minimum.
	c)	Concentrated loads act.
	d)	Deflection is maximum.
14. Th	ne type o	of pile which is driven at an inclination to resist inclined forces is kno
as		
	a)	Friction pile
	b)	Sheet pile
	c)	Batter pile
15 M	d)	Anchor pile
15. M	odulus c	of rupture of concrete is measure of
15. M		
15. M	odulus d	of rupture of concrete is measure of Flexural tensile strength.
15. M	odulus o <mark>a)</mark> b)	of rupture of concrete is measure of Flexural tensile strength. Direct tensile strength.
	odulus d a) b) c) d)	of rupture of concrete is measure of Flexural tensile strength. Direct tensile strength. Compressive strength.
	odulus d a) b) c) d)	of rupture of concrete is measure of Flexural tensile strength. Direct tensile strength. Compressive strength. Split tensile strength.
	odulus o a) b) c) d) ie bars i	Flexural tensile strength. Direct tensile strength. Compressive strength. Split tensile strength. n cement concrete pavements are at
	odulus o a) b) c) d) ie bars i	of rupture of concrete is measure of Flexural tensile strength. Direct tensile strength. Compressive strength. Split tensile strength. n cement concrete pavements are at Expansion joints

17.	Accordin	ng to IS classification, the range of silt size particle is
	a)	4.75 mm to 2.00 mm
	b)	2.00 mm to 0.425 mm
	c)	0.425 mm to 0.075 mm
	d)	0.075 mm to 0.002 mm
18.	The ma	in factor to be considered while preparing a detailed estimate is
	a)	Quantity of the materials.
	b)	Availability of the materials.
	c)	Transportation of materials.
	d)	All of the above.
19.	The los	ses are more in
	a)	Laminar flow
	b)	Transition flow
	c)	Turbulent flow
	d)	Critical flow
20.	Theodo	olite is an instrument used for
	a)	tightening the capstan-headed nuts of level tube.
	b)	Measurement of horizontal angles only.
	c)	Measurement of vertical angles only.
	d)	Measurement of both horizontal and vertical angles.
21.	The sl	udge does not contain waste form
	a)	Bath rooms
	b)	Wash Basins
	c)	Kitchen Sinks
	d)	Toilets

22.	The fo	ollowing readings were taken with a dumpy level and a 4m levelling
	staff on a co	ntinuously sloping ground at 30m interval: 0.68m, 1.455m, 1.855m,
	2.33m, 2.88	5m, 3.38m, 1.055m. The reduced level of fourth point was 79.1m. The
	reduced leve	el of point that read 1.455m is
	a)	80.75m
	b)	79.78m
	c)	78.42m
	d)	79.975m
23.	Minin	num grade of Reinforced cement concrete recommended in IS 456:2000
	for marine w	vorks is
	a)	M20
	b)	M25
	c)	M30
	d)	M40
24	. Consol	idation in soils
	a)	Is a function of the total stress
	b)	Is a function of the effective stress
	c)	Is a function of pore water pressure
	d)	Does not depend on the present stress
25	. Le Ch	natelier apparatus is used to determine
	a)	Soundness of cement
	b)	Fineness of cement
	c)	Compressive strength of cement
	d)	Setting time of cement

26.	The la	boratory tests on a soil sample yielded following results: Natural
moistu	ire cont	ent=18%, Liquid limit=60%, Plastic limit=25%. The liquidity index of soi
sample	e is	
	a)	5
	b)	0.2
	c)	-0.2
	d)	-5
27.	Iden	tify the destructive test on RCC members out of the following tests
	a)	Rebound hammer testing
	b)	Core testing
	c)	Ultrasonic pulse velocity testing
	d)	Pull-out testing
28.	Mini	mum Factor of safety considered in Static Initial pile load test is
	a)	2.5
	b)	3
	c)	1.5
	d)	2
29.	Nega	tive skin friction on a pile
	a)	Acts downward and increases load carrying capacity of the pile
	b)	Acts downward and decreases load carrying capacity of the pile
	c)	Acts upward and increases load carrying capacity of the pile

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	d) Acts upward and decreases load carrying capacity of the pile
30.	Bitumen of grade 80/100 means
	a) penetration value at standard test condition is 0.8mm
	b) penetration value at standard test condition is 0.8cm
	c) penetration value at standard test condition is 8 to 10 cm
	d) penetration value at standard test condition is 8 to 10mm
31.	Which of the following test measures the toughness of road aggregates
	a) Crushing strength test
	b) Impact test
	c) Abrasion test
	d) Shape test
32.	The % by weight of the aggregates whose thickness is less than 3/5th of
	their mean dimension
	a) Roundness Index
	b) Elongation Index
	c) Flakiness Index
	d) Angularity Index
33.	In an activity, if the latest start time is 28 days and the earliest start time is
	18 days, then the total float shall be
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	a)	46 days
	b)	10 days
	c)	9 days
	d)	5 days
34.	Which	test is used to study the resistance of aggregates to weathering
	action	?
	a)	Crushing test
	b)	Abrasion test
	c)	Soundness test
	d)	Impact Test
35.	Which	of the following is a Non-Destructive Test method to check the quality
	of con	crete
	a)	Dye Penetrant test
	b)	Cube Test
	c)	Radiography Test
	d)	Ultrasonic Pulse Velocity Test
36.	The m	nodulus of rupture of concrete gives
	a)	the elastic strength of the concrete
	b)	the direct compressive strength of the concrete
	c)	the tensile strength of the concrete under bending
	d)	the characteristic strength of the concrete

strength	below which not more than
,	100/ 5 1, 5 11
	10% of results fall
b)	5% of results fall
c)	2% of results fall
d)	None of the above
Maxir	num possible value of compaction factor for fresh (green) concrete is
a)	0.5
b)	1.0
c)	1.5
d)	2.0
The p	penetration test for bitumen is conducted at a temperature of
a)	60°C
b)	37°C
c)	25°C
d)	50°C
In ca	se of 2-way slab, the limiting deflection of slab is:
a)	primarily a function of the long span
b)	primarily a function of the short span
c)	independent of long or short span
d)	dependent on both long and short spans
*****	***********************
	a) b) c) d) Maxir a) b) c) d) The p a) b) c) d) In ca a) b) c) d)