

CPRI EXAMINATION

Candidate User ID (as per Admit card):

Test Centre Name:

Exam Date : 19/12/2022

Exam Timing: 1:00 PM - 2:30 PM

Exam Name: TECHNICIAN GRADE 1

Note: Questions answered are highlighted with selection

> M, N, P, R, T, W, F and H are sitting around a circle at the centre, P is third to the left of M and second to the right of T. N is second to the right of P.R is second to the right of W who is second to the right of M. F is not an immediate neighbour of P.

Who is to the immediate right of P?

- H (Correct Answer)
- F
- \bigcirc R
- \circ w

2 The graph given below shows the number of watches (Wrist watches + Wall watches) sold in different months of a year by a Watch shop. Number of Watches sold in different months 180 154 160 142 140 124 120 100 80 58 60 40 20 0 March April May June Number of Wrist watches sold ■ Number of Wall watches The total number of watches sold in March is 25% more than the total number of watches

- 0 156
- 0 164
- 0 184
- 176 (Correct Answer)

Fill in the blank with the correct word. Though he has failed many times, he is still trying to achieve success. His is commendable.

sold in February, then find the total number of watches sold in February.

- decision
- perseverance (Correct Answer)
- innocence
- freedom

In the question below are given some statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts.

Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts

Statements:

Some bags are zips.

All zips are hips.

Some hips are clips

Conclusions:

- I. Some clips are bags.
- II. Some hips are bags.

	,
	 If only Conclusion I follows If only Conclusion II follows (Correct Answer) If either Conclusion I or II follows If neither Conclusion I nor II follows
5	Subansiri, Jia Bhareli and Dhansiri are the tributaries of -
	Ganga Brahmaputra (Correct Answer) Godavari Krishna
6	Ratio of cost price and marked price of an item is 3: 5 respectively. If shopkeeper gave a discount on its marked price, then find the profit%/loss% at which item is sold.
	25% 40% (Correct Answer) 35% 30%
7	Which is the wrong letter cluster in the following number series? PCD, QEF, VGH, SIJ, TKL, UMN
	○ VGH (Correct Answer) ○ SIJ ○ TKL ○ QEF
8	Choose the correct state from below, where Kuchipudi dance has been originated.
	Tamil NaduKeralaMadhya PradeshAndhra Pradesh (Correct Answer)
9	Maize is an example of Epiphyte Mesophyte (Correct Answer) Hydrophyte Xerophyte
10	What should come in place of the question mark (?) in the following question?
	$(169)^3 \div (2197)^4 \times (13)^{13} = (13)^{7+5}$
1	 6 4 2 (Correct Answer) 5
11	National Cancer Awareness Day is observed every year on which day?
	 10th November 9th November 8th November 7th November (Correct Answer)

12

12/23/22, 10:55 AM

ObjectionTracker In the question below, there are two statements followed by four conclusions given in options. You have to take the given statements to be true even if they seem to be at variance with commonly known facts and then decide which of the given conclusion logically follow(s) from the given statements. Statements: All months are Septembers All months are Octobers. Conclusions: (A) Some Octobers are Septembers. (B) All Septembers are Octobers. (C) All Octobers are months. (D) All Septembers are months. A (Correct Answer) B \circ C D 13 If the following interchanges are made in signs and numbers, then which equation would be correct? Interchanges: Signs: x and = Numbers: 4 and 5 $0 10 + 2 - 4 \times 3 = 8 \div 5$ \bigcirc 12 ÷ 3 x 4 - 8 = 5 + 7 \bigcirc 16 - 7 ÷ 4 x 21 + 6 = 5 \bigcirc 19 - 20 ÷ 5 x 4 + 3 = 3 (Correct Answer) 14 In the sentence, identify the segment which contains a grammatical error. Finding water is the mission for Chandrayaan-2, and it has three experiments special designed for this hunt. Is the mission Special designed (Correct Answer) For this It has 15 Select the option that will improve the bracketed part of the sentence. In case no improvement is needed, select 'No improvement'. Just try and recall the poor people you (have seen on the) streets, in local trains, and in slums. had saw on the have seeing on the have been see on the

No improvement (Correct Answer)

The given pie chart shows the distribution of number of adults in a city by their profession. Total Adults in the city = 108000 Lawyers, 200 Engineers, 1209 If 25% lawyers, 60% teachers, 20% engineers and 45% doctors are females, then find the total number of females in the city. 36850 39240 0 40060 42450 (Correct Answer) 17 From the given responses, find the missing term in the series. DaC, FeH, HiO, JmU, ? O LQw pLC O Qlv LqA (Correct Answer) 18 Who has won the Mexican Formula 1 Grand Prix 2022? C. Sainz Jr. G. Russell Max Verstappen (Correct Answer) Pietro Fittipaldi 19 Which of the following is an example of emulsion? Smoke Jelly Mist Milk (Correct Answer) 20 Find the missing number in a series given below: 11, 4, 16, 49, 169,? 256 (Correct Answer) 625 100 In the below question, a sentence has been given in "Direct Speech". Out of the four alternatives suggested, select the one which best expresses the same sentence in "Indirect Speech". "Let's go and have some tea," said Daisy. Daisy commanded that we go and have some tea. Daisy requested that we go and had some tea. Daisy suggested that we should go and have some tea. (Correct Answer) Daisy told us that we go and have some tea.

22	Which of the following dynasties had built the Golconda fort?
	Chalukya dynasty
	Kakatiya dynasty (Correct Answer)
	Slave dynasty
	Khilji dynasty
	Chilling dynasty
23	How many kingdoms are there in the classification that Robert Whittaker had proposed?
	O 3
	5 (Correct Answer)
	○ 8
	O 10
24	In the following question, select the related letters from the given alternatives. LION: PMSR:: BOWL:?
	FSAO
	○ FASB
	FSAP (Correct Answer)
	○ FSBP
25	If side of the square is increased by 5 cm, then its area increases by 175 cm ² . What is the perimeter of
	original square?
	0.24 cm
	24 cm
	48 cm
	50 cm
	● 60 cm (Correct Answer)
26	
20	In the following passage, some of the words have been left out and replaced by a blank represented by a letter. First, read the passage and try to understand what it is about. Then fill in the blanks as per the questions given.
	Every afternoon(A) sunset, at a point midway along the arrow-straight road between Amritsar and Lahore,
	rival squads of(B) uniformed soldiers strut and stomp a 17th-century British military drill known as Beating Retreat (pictured). Barked commands,(C) glares
	and preposterously high kicks all signal violent intent. But
	then, lovingly and in(D), the enemies lower their national flags. Opposing guardsmen (E) shake
	hands, and the border gates roll shut for the night.
	Colonial Colonial Colonial C
	Select the most appropriate option for blank E
	ocognitively
	o critically
	o formidably
	curtly (Correct Answer)
27	The compound interest on a sum of Rs.7200 at some rate of interest is more than the simple interest on
	the same sum at the same rate of interest after two years is Rs.162. What is the rate of interest?
	12%
	9%
1	● 15% (Correct Answer)
	O 18%

	In the following passage, some of the words have been left out and replaced by a blank represented by a letter. First, read the passage and try to understand what it is about. Then fill in the blanks as per the questions given.	
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	Select the most appropriate option for blank B.	•
	splendidly (Correct Answer)unaestheticallygladlyelatedly	
	Clutcaly	
29	Who has been appointed as Chairman and Managing Director of E (BPCL) in 2022?	Sharat Petroleum Corporation Limited
	Sandeep Ahluwalia	
	Rajendra Khattar	
	○ VR Krishna Gupta (Correct Answer)	
	Madhav Mishra	
30	Which answer figure will complete the pattern in the question figure	re?
	?	
	(Correct Answer)	
31	Select the related word from the given alternatives. Dal lake : Jamn	nu and Kashmir :: Salim Ali Lake : ?
	○ Gujarat	
	O Punjab	
	© Goa	
	Maharashtra (Correct Answer)	

32

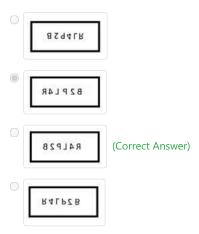
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	Select the most appropriate option for blank D	
	discord	
	○ unity	
	unison (Correct Answer)	
	unlikeliness	()
33	In a certain code language, 'FRUITFUL' is written as 'HTWKVHWN'. Ho	w will 'VILLAGE' be written as in tha
	language?	
	○ XKNGCIN	
	YKNOCIG	
	XKNNGIC	
	XKNNCIG (Correct Answer)	
34	In the following passage, some of the words have been left out and replaced by a blank represented by a letter. First, read the passage and try to understand what it is about. Then fill in the blanks as per the questions given. Every afternoon(A) sunset, at a point midway	
	along the arrow-straight road between Amritsar and Lahore, rival squads of(B) uniformed soldiers strut and stomp a 17th-century British military drill known as Beating Retreat (pictured). Barked commands,(C) glares and preposterously high kicks all signal violent intent. But then, lovingly and in(D), the enemies lower their national flags. Opposing guardsmen(E) shake hands, and the border gates roll shut for the night.	
	Select the most appropriate option for blank C	
	diverting	
	witty	
	o preposterous	
	fierce (Correct Answer)	
35	Choose the word from the options that is most similar in	
	meaning to the given word.	
	"Guile"	
	© Compassion	
	Compassion Artfulness (Correct Answer)	
12	Ingloriousness	
	Honesty	
36	In which year was Kannauj attacked by Mahmud of Ghazni?	
	○ 1000 AD	
	915 AD	
	1018 AD (Correct Answer)	
	1101 AD (Correct Answer)	
37	A regular hexagonal base prism has height 12 cm, and side of base is	8 cm. What is the total surface area

A regular nexagonal base prism has neight 12 cm, and side of base is 8 cm. What is the total surface area (in cm²) of the prism?

	○ 192(√3+ 2) cm ²	
	○ 196(√3+4)cm²	
	\bigcirc 192($\sqrt{3}$ + 3) cm ² (Correct Answer)	
	○ 196(√3+ 2) cm ²	
38	In the question given, relations between different elements are shown in the statements. These statements are followed by two conclusions. Find out which of the given	
	conclusions follow(s) the given statements. And select the correct alternative from the given choices.	
	correct alternative from the given choices.	
	Statements:	
	$O > Z \ge L > Y; U = Y > H \ge P$	
	Conclusions:	
	I. Z > H	
	$II.\ P \geq U$	
	Only conclusion I is true (Correct Answer)	
	Only conclusion II is true	
	Either conclusion I or II is true.	
	Neither conclusion I nor II is true	
39	In the sentence, identify the segment which contains a grammatical error.	O
	Some study reveal that 21 big cities in India will run out of	
	groundwater sometime in 2020, affecting over 100 million	
	people.	
	Some study reveal (Correct Answer)	
	Will run out	
	Affecting over	
	○ Big cities	
40	Who is the author of the book "The Lord of the Rings"?	
	Charles Dickens	
	○ Harper Lee ○ George Eliot	
	J. R. R. Tolkien (Correct Answer)	
	STATE POINTED (CONTROL OF MICH.)	
41	'Breast stroke', Butterfly stroke' and 'Back stroke' are terminologies	related to which of the following?
	○ Volleyball	
	Swimming (Correct Answer)	
	Baseball	
4	lce-Hockey	
42	A six-digit number 749xyz is divisible by 9, 11 and 4, then what is th	e value of $\{3x - (4y + 5z)/2x\}$? [Assume
	X ≠ z]	
1	12	
~	O 13	
	O 14 (Correct Answer)	
	O 11	
43	Select the correct mirror image of the given figure when the mirror	is placed to the right of the figure:

https://objection.tracker-cpri.onlineregistrationforms.com/candidate-response/candidate_id

R4LP2B



Rajesh has two varieties of rice A and B in the ratio 3: 4 respectively such that the quantity of rice of type A is 3 kg less than quantity of rice of type B. If the cost of rice of type A and B are Rs.30 per kg and Rs.20 per kg respectively, then what will be the average cost of total quantity of rice?

Rs.22.56

Rs.24.28 (Correct Answer)

Rs.26.78

Rs.27.33

What should come in place of the question mark (?) in the following question? $(9576 \div 21) \times (462 \div 42) - 563 \times 8 = ?^3$

O 5

7

8 (Correct Answer)

3

Four numbers are in the ratio 1/3:1/4:1/5:1/6. If the difference between the smallest and the largest number is 70, find the sum of the middle two numbers.

189 (Correct Answer)

210

0 175

180

In the below questions, a sentence has been given in "Active Voice". Out of the four alternatives suggested, select the one which best expresses the same sentence in "Passive Voice".

Who has broken this vase?

By whom is this vase broken?

By whom has this vase been broken? (Correct Answer)

By whom was this vase broken?

By whom had this vase been broken?

The work done by (x + 3) men in (3x + 1) days and the work done by (3x + 1) men in (2x - 3) days are in the ratio 3: 5. In how many days (x + 3) men do $(8x^2 + 9)$ work?

0 172

85

171 (Correct Answer)

86

49 'S' in BRICS i.e. association of countries stands for ______.

Singapore

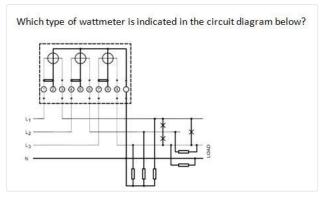
Sweden

	ObjectionTracker
	South Africa (Correct Answer)
	Seychelles
50	In the following passage, some of the words have been left out and replaced by a blank represented by a letter. First,
	out and replaced by a blank represented by a letter. First, read the passage and try to understand what it is about. Then fill in the blanks as per the questions given.
	Every afternoon (A) sunset, at a point midway along the arrow-straight road between Amritsar and Lahore, rival squads of (B) uniformed soldiers strut and
	stomp a 17th-century British military drill known as Beating Retreat (pictured). Barked commands,(C) glares
	and preposterously high kicks all signal violent intent. But then, lovingly and in(D), the enemies lower their national flags. Opposing guardsmen(E) shake hands, and the border gates roll shut for the night.
	Select the most appropriate option for blank A.
	0 on
	at (Correct Answer) along in
51	Select the figure that will come next in the following series:
J1	
	s * s * s * s * ?
	, s
	o s
	@ "
	(e)
	(Correct Answer)
C2	11.4
52	Choose the word from the options that is opposite in
	meaning to the given word.
7	"Opprobrium"
	DisgraceFragmentation
	○ Vilification
	O Praise (Correct Answer)
53	Fill in the blank with the Correct option in the context. It is said that the morning hours are the time for
	studying.
	ideal (Correct Answer)
	idea

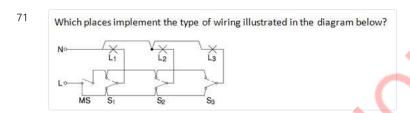
	O idol
54	If 3% of 5% of 12000 = a + b and b% of 480% of 400 = 24a, then what is the value of 5a% of (20 + b)?
	12 (Correct Answer)15
	○ 18
	○ 20
55	The average of the present ages of Amrish and Anisha is 28 years. After 22 years, Anisha's age will be one and a half times of her sister Amrita's present age. Find the average of present ages of Amrita and Anisha if Amrish's age 7 years ago was 23 years
	O 32 years
	© 28 years
	30 years
	29 years (Correct Answer)
56	From the options given below, Choose the correct Birthplace of Gautam Budha.
	Lumbini (Correct Answer)
	Compatible
	Sarnath Bodhgaya
	boungaya
57	Train 'X' is running with speed 108 km/hr and crosses train 'Y' which is running in the same direction as X in 80 seconds. If the length of train Y is half of the length of train X and the speed of train Y is 81 km/hr, then what is the length of train X (in metres)?
	O 200
	O 600
	400 (Correct Answer)
	1440
58	The Cardamom Hills are regarded as the continuation of the -
	Satpuras
	O Aravallis
	Western Ghats (Correct Answer)Eastern Ghats
	Edstern Grides
59	Select the wrongly spelt word.
	dominion
	persecutesolitory (Correct Answer)
	strangled
	Stargled
60	In a row of children, Aamna is 9th from the left end and Kamana is 13th from the right end. If their
	positions are interchanged, Aamna becomes 18th from the left. What is the new position of Kamana from
	the right end of the row?
13	22 (Correct Answer)
*	O 25
	0 27
	O 33
61	Which type of fire extinguisher contains a fork-shaped nozzle?
	Water-filled extinguisher
	Foam extinguisher
	Dry powder extinguisher (Correct Answer)
	Halon extinguisher

Which of the following files is available only in a half-round shape?

	Rasp cut (Correct Answer)Double cutSingle cutCurved cut
62	
63	What is the formula to determine the terminal voltage of an electric circuit? Terminal voltage = EMF – voltage drop (Correct Answer) Terminal voltage = EMF + voltage drop Terminal voltage = EMF × voltage drop Terminal voltage = EMF/(voltage drop)
64	What is the position of the pointer in a megger when it is not in use?
	Zero Infinity Middle Anywhere on the scale (Correct Answer)
65	Which is the most suitable flux to be used when soldering iron and steel at a low temperature?
	 Rosin Tallow Zinc chloride (Correct Answer) Diluted hydrochloric acid
66	Which of the following is an example of a variable capacitor?
	 Air capacitor (Correct Answer) Mica capacitor Ceramic capacitor Electrolytic capacitor
67	Name the PPE in the figure given below.
	 Helmet Goggles Nose mask Head shield with ear muff (Correct Answer)
68	What happens to the armature reaction in case of zero lagging load power factor?
	De-magnetize (Correct Answer) Magnetize Cross-magnetize Null effect
69	Which of the following can be a possible cause for the production of steam in hot water while using a geyser? © Grounded heating element (Correct Answer)
	Leaking faucets Open circuit Scale deposit on heating units



- 2-element 3-wire type
- 3-element 2-wire type
- 3-element 3-wire type
- 3-element 4-wire type (Correct Answer)



- Hostel (Correct Answer)
- Corridor
- Staircase
- Tunnel
- 72 What is the name of the device which is used to measure the insulation resistance?
 - A common tester
 - Megger (Correct Answer)
 - Multimeter
 - Simple meter
- Which of the following installation testing is conducted to check whether switches are connected in phase cable or not?
 - Open circuit test
 - Polarity test (Correct Answer)
 - Earth and ground test
 - Insulation and leakage test
- 74 If the hydrometer reading is _____, the cell condition is 50% charged.
 - 0 1.15
 - 1.2 (Correct Answer)
 - 0 1.3
 - 9 1.26
- 75 When a synchronous motor is employed as a power factor correction device then it is called as ______
 - Induction motor
 - Power factor compensator
 - Synchronous generator
 - Synchronous condenser (Correct Answer)
- 76 Calculate the pitch factor for a winding having 40 stator slots, 4 poles with a coil span of 1 to 8.
 - 0.74
 - 0.84
 - 0.89 (Correct Answer)
 - 0.6

77	Which of the following sections of part 1 of the National Electrical Code-2011 covers information about the graphical symbols for diagrams, letter symbols, and signs to be used as reference?
	O Section 2
	○ Section 1
	○ Section 4
	Section 3 (Correct Answer)
78	Which of the following describes the term "SHITSURE" in the 5s approach of cleaning and maintaining a workshop?
	Systematic arrangement
	Shine cleanlinessSelf-discipline (Correct Answer)
	Sorting out
79	Which type of induction motor has a wound rotor with three windings either connected in a star or delta?
	Class A motor
	Class B motor
	O Class C motor
	Slip ring induction motor. (Correct Answer)
80	What is the value of voltage across a 21 Ω resistor when 7 A current flows through it?
	147 volts (Correct Answer)3 volts
	0.33 volts
	O 28 volts
81	What is the purpose of lamination in the armature core of a DC motor?
	To reduce eddy current lose (Correct Answer)
	○ To reduce Hysteresis loseq
	To reduce Flux lose
	To reduce Stray lose
82	Which of the following effects of electric current is utilised in fluorescent tubes?
	Special rays effect
	Gas ionisation effect (Correct Answer)
	Chemical effect
	○ Magn <mark>etic</mark> effect
83	Which type of looping of the phase wire is preferred for lodges where rooms are constructed on either side of a common corridor?
	Looping out from switch and ceiling rose
	Cooping out from the switch
	Looping out from a 3-plate ceiling rose
7.	Looping out with junction box (Correct Answer)
84	On which one important respect does DC and AC generators are similar?
	Both generate current in same direction
	O Both generate less loss
	Both generate alternating power output
	Both generate alternating emf in the armature conductors (Correct Answer)
85	What is the most suitable way to extinguish a fire on electrical equipment?
	Use of vapourising liquids (Correct Answer)
	○ Use of water
	Lise of foam

	Use of carbon monoxide
86	What type of force will be induced whenever the flux linking to the conductor or circuit changes?
	© Electromotive force (Correct Answer)
	Statice force Mechanical force
	Magnetic force
	- magnetic references
87	What is the current rating of 25 mm ² copper cable at 65°C? The circuit is 3-phase AC, and the cable is provided with coarse excess current protection. The cable is run in conduit.
	○ 26.7A
	O 27 A
	27.6 A (Correct Answer) 28.6 A
88	Which type of primary cells uses a zinc container for the negative electrode and a manganese dioxide cylinder for the positive electrode?
	Leclanche cell
	Alkaline cell (Correct Answer)
	Lithium cell
	Mercury cell
89	A 3-phase, 400V, 50 HZ, delta-connected induction motor draws a line current of 140 amps with a P.F. of 0.80 and is delivering an output of 100 (Metric) HP. Calculate the efficiency.
	O 96.5%
	94.7% (Correct Answer)
	92.5%
	94.5%
90	Which type of cells is often used in digital watches, calculators, and other miniature electronic types of
	equipment?
	Mercury cells (Correct Answer)
	Alkaline cells
	Leclanche cells
	Ory cell
91	Name the loss that occurs due to the rotation of the armature core in the magnetic flux produced by the
	field system.
	Copper stray loss
	O Variable loss
	Core loss (Correct Answer)
	Core stray load loss
92	How much amount of resistance should be measured between the emitter and collector for a good
32	transistor?
7.	
	○ High ○ Low
	Very high (Correct Answer)
	○ Very low
93	What is the luminous efficiency of a 75-watt light bulb producing 1100 lumens?
	14.66 lumen/watt (Correct Answer)
	0 16.46 lumen/watt
	68.18 lumen/watt
	13.86 lumen/watt

94 Which of the following parts of a hammer is used for riveting and bending works?

	,
	Face
	O Peen (Correct Answer)
	O Cheek
	○ Wedge
95	Which variety of winding wires are used in submersible pumps?
	Super-enamelled copper wire.
	Single cotton-covered copper wire.
	PVC-covered copper winding wire. (Correct Answer)
	○ Single silk-copper wire.
96	Which synchronous motor has no brushes?
	O Induction Motor
	Stepper Motor (Correct Answer)
	Hysteresis motor
	Reluctance motor
97	Which of the following material has four electrons in its valence shell?
	Silicon (Correct Answer)
	O PVC
	© Eureka
	Nichrome
98	Which tune of material converts suplight into electrical energy?
90	Which type of material converts sunlight into electrical energy?
	O Polycrystalline material
	Photovoltaic cells (Correct Answer)
	O Amorphous material
	Single crystalline material
	o biligio di yotamii o materia.
99	A transformer has the number of primary turns/volt equal to 10. If the secondary voltage is 30 volts
	calculate the secondary turns.
	300 (Correct Answer)
	3
	3000
	0 10
100	Identify the category of the safety sign, when a white symbol is present on a blue background.
	O Prohibition sign
	Mandatory sign (Correct Answer)
	O Information sign
	Warning sign
	Training sign