



SANDIPANI TECHNICAL CAMPUS

Faculty of Engineering & Polytechnic

AN ISO 9001:2015 CERTIFIED INSTITUTE

Nanded Road, Kolpa, Latur ☎:02382 263545 / 46 / 47

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VCRP - 2026

Round 1: Aptitude Test on 14/03/2026 at College Campus

Aptitude Test Guidelines

Aptitude test will be conducted on computer on 14/3/2026 in college campus Sandipani Technical Campus Faculty of Engineering, Nanded Road, Kolpa, Latur.

Exam Pattern:

Exam Paper: Branch wise

Total Marks: 25 (General Aptitude-15, Technical - 10)

Exam Duration: 30 Mins.

Venue: Sandipani Technical Campus Faculty of Engineering, Kolpa, Latur

Note: Kindly bring Receipt, your college ID-Card/any other ID proof

Polytechnic CIVIL Engineering Branch Question Bank

	Technical Questions: 10 Marks
	Subject: BASIC CIVIL ENGINEERING Question Bank
	Any of the Following 10 Questions will be asked.
1)	Rubble masonry is sub-divided into:
	a) 4
	b) 2
	c) 6
	d) 10
ANS	C
2)	Which of the below joints is used for masonry in arches?
	a) Butt

	b) Table
	c) Rebated
	d) Dowel
ANS	C
3)	The portion of bricks cut across the width in half is called:
	a) Half split
	b) Half closer
	c) Half bed
	d) Half bat
ANS	D
4)	In _____ type of bond, all the bricks are arranged in header courses.
	a) Header bond
	b) Flemish bond
	c) Dutch bond
	d) Facing bond
ANS	A
5)	A casement window hung horizontally is called:
	a) Hopper
	b) Awning
	c) Pivot
	d) Transom
ANS	A
6)	If a door swings towards the person opening it, it is called:
	a) Left handed
	b) Reverse
	c) Normal
	d) Right handed
ANS	B
7)	How many types of stairs are there based on the material?
	a) 4
	b) 5
	c) 8
	d) 6
ANS	C
8)	Which IS code gives details about wooden stairs?
	a) IS 2634
	b) IS 2643
	c) IS 1634
	d) IS 1643
ANS	C
9)	In suspended concrete floors, _____ beams are used.

	Question Type
	a) T shaped
	b) Inverted L shaped
	c) Inverted T shaped
	d) I shaped
ANS	C
10)	The first step in flooring is:
	a) Topping
	b) Base coat
	c) Sand filling
	d) R.C.C. layer
ANS	B
11	In plane surveying,
	(a) the curvature of the earth is taken into consideration
	(b) the curvature of the earth is not taken into
	(c) the surveys extend over large areas.
ANS	B
	12. In geodetic surveying, the curvature of the earth is taken into consideration.
	(a) Agree
	(b) Disagree
ANS	A
	13.The working from whole to the part is done in surveying in order to ensure that
	(a) survey work is completed more quickly
	(b) number of errors is minimum
	(c) plotting is done more quickly
	(d) errors and mistakes of one portion do not affect the remaining portion.
ANS	D
	14. In levelling, the correction for curvature (in metres) is equal
	(a) $0.00785 D^2$
	(b) $0.0785 D^2$
	(c) $0.0112 D^2$
	(d) $0.0673 D^2$
ANS	B
	15.The horizontal distance between any two consecutive contours is called
	(a) vertical equivalent
	(b) horizontal equivalent
	(c) contour interval
	(d) contour gradient
ANS	B

	16. A back sight indicates.....of the instrument.
	(a) shifting
	(b) setting up
	(c) height
ANS	B
	17. The point on which the instrument is set up, is called station point.
	(a) True
	(b) False
ANS	B
	18. A fixed point of reference of known elevation is called
	(a) change point
	(b) station point
	(c) bench mark
	(d) datum
ANS	C
	19. An imaginary line tangential to the longitudinal curve of the bubble tube at its middle is called
	(a) axis of telescope
	(b) axis of level tube
	(c) level line
	(d) line of collimation
ANS	B
	20. A staff reading taken on a bench mark or a point of known elevation is called
	(a) fore sight reading
	(b) back sight reading
	(c) intermediate sight
	(d) any one of these
ANS	B
	21. In how many ways can ranging be carried out?
	A. 2 ways
	B. 4 ways
	C. 6 ways
	D. 8 ways
ANS	A
	22. Chain surveying uses the principle of?
	A. Chaining
	B. Ranging
	C. Triangulation
	D. Traversing
ANS	C
	23. The process of a location of intermediate points on a survey line?

	Offsetting
	Ranging
	Aligning
	Extending
ANS	B
	24. The book in which chain measurements are entered is called?
	A. Chain book
	B. Study book
	C. Record book
	D. Field book
ANS	D
	25. Survey stations may be marked on the ground using a ?
	A. Peg
	B. Pointer
	C. Rod
	D. Pole
ANS	A

Aptitude Test Question Bank

Aptitude Questions: 15 Marks

Any of the Following 15 Questions will be asked.

1	A man is swimming in a stream which flows at the rate of 1.5 kmph. In a given time he can swim twice the distance with the stream as compared to the distance he can swim against it. Find the speed of the man.
	a) 7.5 kmph b) 9.5 kmph c) 5.5 kmph d) 3.5 kmph e) 4.5 kmph
	Answer: E
2	A man can row 6 km/h in still water. It takes 3 hours more in upstream than in the downstream to cover same distance. If the speed of the current is 2 km/h, then find the distance

	<p>a) 20 km b) 30 km c) 38 km d) 54 km e) 24 km</p>
	Answer: E
3	<p>A man went to market and purchased a fan of Rs.2000 and sold it at the loss of 20% . From that amount, he purchased a Chair and sold it at a profit of 20%. What is the amount of overall profit/loss made by him in whole dealing?</p>
	<p>A. Rs.230 B. RS.340 C. RS.350 D. RS.80 E. RS.290</p>
	Answer: D
4	<p>If NOIDA is written as OPJEB, then what will be the code for DELHI</p>
	<p>A. EFMAK B. EFAMK C. EFMIJ D. EFMIK</p>
	Answer: C
5	<p>If AIRLINE is written as ENILRIA7, then RAILWAY will be written as</p>
	<p>a. YAWLIAR7 b. YAWLIAR8 c. YAWILAR7 d. YAWILAR8</p>
	Answer: A
6	<p>If CAT is coded as PATC, JOY is coded as POYJ; similarly the word WING will be coded as -</p>
	<p>a. PIGNW b. PINGW c. PGNIW d. PIWGN</p>
	Answer: B
7	<p>Which number should come next in the series 1, 2, 3, 10, ____</p>
	<p>a. 79 b. 99 c. 89 d. 98</p>

	Answer: B
8	Which number is wrong in the series 2, 6, 15, 31, 56, 93?
	a. 6 b. 31 c. 56 d. 93
	Answer: D
9	The number comes next in the series 12, 36, 109, 329, ... -
	a. 900 b. 990 c. 890 d. None of the above
	Answer: B
10	40 % of 280 =?
	A. 112 B. 116 C. 115 D. 120
11	Suppose a series is 6, 11, 21, 36, 56, ? the number comes at the place of question mark in the given series is
	a. 91 b. 21 c. 52 d. 81
	Answer: D
12	What will be the missing number in the series 196, 169, 144, __, 100, 81
	a. 121 b. 120 c. 119 d. 118
	Answer: A
13	If PINK is coded as 1691411, then RED will be coded as
	a. 1963 b. 1854 c. 1853 d. 1954
	Answer: B
14	Which of the following is the odd one from the given alternatives?
	a. Driving b. Diving c. Swimming

	d. Sailing
	Answer: A
15	Which of the following is the odd number from the given alternatives?
	a. 1090 b. 962 c. 626 d. 841
	Answer: D
16	Statement 1: John runs faster than George Statement 2: Tom runs faster than John Statement 3: George runs faster than Tom If statement 1 and statement 2 are true, statement 3 will be
	a. true b. false c. uncertain d. None of the above
	Answer: B
17	Arrange the following words in a meaningful sequence - 1. Frog 2. Grass 3. Grasshopper 4. Eagle 5. Snake
	a. 2, 3, 1, 5, 4 b. 3, 2, 1, 4, 5 c. 2, 1, 3, 4, 5 d. 4, 5, 1, 3, 2
	Answer: A
18	Arrange the following words in a meaningful sequence - 1. Sun 2. Rain 3. Child 4. Rainbow 5. Happy
	a. 2, 1, 4, 3, 5 b. 3, 2, 1, 4, 5 c. 2, 1, 3, 4, 5 d. 4, 5, 1, 3, 2
	Answer: A
19	Marathon is to race as hibernation is to -
	a. winter

	<ul style="list-style-type: none"> b. summer c. sleep d. bear
	Answer: C
20	A book always has
	<ul style="list-style-type: none"> a. Pages b. Story c. Binding d. Content
	Answer: A
21	A hospital always has -
	<ul style="list-style-type: none"> a. Doctor b. Nurse c. Bed d. None of the above
	Answer: A
22	Drama : Stage :: Tennis : ?
	<ul style="list-style-type: none"> a. Net b. Court c. Tournament d. Racket
	Answer: B
23	Which of the following set of letters complete the letter series, when sequentially placed at the gaps? _ ab _ b _ aba _ _ abab
	<ul style="list-style-type: none"> a. abbab b. abbaa c. abaab d. aaaba
	Answer:D
24	If the word 'LION' is coded as LMGJ. How is 'MILK' written in that code?
	<ul style="list-style-type: none"> a. JKFL b. KLIM c. KILM d. IJGK
	Answer:D
25	Idioms and Phrases: To cry wolf
	<ul style="list-style-type: none"> 1. to speak loudly 2. to eat like a wolf 3. to get afraid

	4. to give a false alarm
ANS	D
26	Liquid: Liter
	A. Hot: Cold B. Weight: Kilogram C. Movie: Entertainment D. Winter: Cold
ANS	B
27	Look at the series, 46, 44, 40, 38, 34, _, which number should come next?
	A. 30 B. 36 C. 32 D. 31
ANS	C
28	verbal ability questions: find the correctly spelled word
	A. Betterment B. Efficiant C. Employd D. Trainad
ANS	A
29	The ratio between the breadth and perimeter of a rectangle is 2:10. If the area of the rectangle is 428 sq. cm, what is the length of the rectangle?
	A. 25.4 cm B. 30.4 cm C. 40.4 cm D. 45.4 cm
ANS	A
30	Approximate value of $0.4*0.4 + 0.04*0.04 + 0.04$ is
	A. 0.20 B. 0.38 C. 0.16 D. 0.46
ANS	A
31	RQP, ONM, _, IHG, FED, find the missing letters.
	A. CDE B. LKI C. LKJ D. BAC
ANS	C

32	What is the missing letter in the series, U, O, I, _, A?
	<ul style="list-style-type: none"> A. E B. K C. F D. E
ANS	D
33	45 *? = 35% of 900
	<ul style="list-style-type: none"> A. 6 B. 7 C. 9 D. 4
ANS	B
34	Synonyms of Adversity
	<ul style="list-style-type: none"> A. Failure B. Crisis C. Misfortune D. Illness
ANS	C
35	find the correctly spelled word
	<ul style="list-style-type: none"> A. Acomodation B. Acommodation C. Accomodation D. Accommodation
ANS	D
36	Which number would fill the empty space in the series; 4, 7, 12, 19, _, 39?
	<ul style="list-style-type: none"> A. 28 B. 26 C. 24 D. 22
ANS	A
37	Pointing to a woman, a man said, "Her father is the only son of my father." How is the man related to the woman?
	<ul style="list-style-type: none"> A. Brother B. Grandfather C. Father D. Son
ANS	C
38	A thermometer is to temperature as a compass is to
	<ul style="list-style-type: none"> A. Pressure B. Humidity C. Direction

	D. Needle
ANS	C
39	Peter is twice as good as workman as Tom. When they work together they can finish a task in 16 days. If Tom works alone, in many days he will complete the task?
	A. 46 days B. 48 days C. 50 days D. 52 days
ANS	B
40	A man purchases a TV for Rs. 8000 and sells it at 10% loss. What is the selling price of T.V?
	A. Rs.7200 B. Rs.7000 C. Rs.6900 D. Rs.6500
ANS	A
41	Sohan has borrowed Rs. 5000 at the rate of 6% S.I. what amount he needs to pay after 3 years to clear the debt?
	A. Rs. 5500 B. Rs. 5900 C. Rs. 6100 D. Rs. 6300
ANS	B
42	Find the HCF of 210, 385, and 735.
	A. 7 B. 14 C. 21 D. 35
ANS	D
43	Find the missing letters in the series, GAH, IBJ, KCL, MDN, ____.
	A. OEG B. OEP C. OEB D. OEA
ANS	B
44	Synonyms of Fake
	A. Imitation B. Fair C. Flair

	D. Fact
	A
45	Antonym of Extend
	A. Condense B. Expand C. Congestion D. Convert
	D