

List of Topics for VSP(JT)

Mechanical

1. Units of measurement for length, volume and weight.
2. Use of measuring instruments and type of instruments.
3. Types of threads and their specific uses.
4. Types of Gear Teeth and Specific uses.
5. Basic calculation for change gears in lathes to cut different types of thread.
6. Tools for use in lathe, milling machine, shaping machine.
7. Form of bolts and nuts.
8. Types keys and cotter joints and their specific uses.
9. Shaft couplings–types and uses.
10. Belt and Pulleys–types and uses
11. Welding and welded joints.

Electrical

Maintenance and repairing of measurement instrument, Basic Electrical Engg., Basic Electronics, Motor (AC and DC) concepts, (practical). Domestic and Industrial Wiring, Power System Basics, Transformer System, Basic of Power Electronics, Electrical Drives (maintenance and repairing), Maths, Electrical Drawing.

Electronics and Instrumentation

Maintenance and repairing of measurement devices, TV, Radio, PCB Making, Medical Instrument Repairing, Basic Electrical Engg., Basic Electronic Engg. Maths.

SAMPLE QUESTIONS**General Aptitude**

- Select the related words from the given alternatives:
weight : kilogram ::
(A) mile : length (B) bushel : corn (C) **distance : kilometre** (D) seconds : hours
- The earliest known Indian script is
(A) Mori (B) Devanagiri (C) **Brahmi** (D) Kharosh
- Which is the greatest number less than 10,000 divisible by 48, 60 and 64?
(A) **9600** (B) 9552 (C) 9664 (D) 9720

Working English

- Fill in the blank.
This is the boy _____ I told you of.
(A) who (B) whom (C) that (D) whose
- Choose the word that is nearest to the meaning of the given word.
Abhor
(A) **detest** (B) contest (C) arrest (D) protest
- Identify the kind of noun underlined:
Always speak the truth.
(A) common (B) proper (C) collective (D) **abstract**

Working Telegu

- విష్ణువుకు మానస పుత్రుడెవరు?
(A) నలుడు (B) మన్మధుడు (C) కుబేరుడు (D) కార్తికేయుడు
- 'సారే జహాసె అచ్చా' గీతాన్ని వ్రాసిన వారెవరు ?
(A) మహ్మద్ ఇక్బాల్ (B) రవీంద్రనాథ్ ఠాగూర్ (C) నీలం సంజీవరెడ్డి (D) గోపాలకృష్ణ గోఖలే
- రాజీవ్ గాంధీ అంతర్జాతీయ విమానాశ్రయం ఏ నగరంలో గలదు?
(A) ఢిల్లీ (B) ముంబై (C) కొల్కతా (D) **హైదరాబాదు**

Electronics and Instrumentation

- A transistor has _____ number of terminals.
(A) 2 (B) **3** (C) 1 (D) 4
- Armature of an electrical machine is the
(A) stator part of the machine (B) **rotor part of the machine**
(C) yoke of the machine (D) none of these
- In flame atomizer the sample is converted into fine spray by
(A) burner (B) fuel (C) **nebulizer** (D) none of these
- The basic limitation of a P-action only controller is
(A) very slow error correction (B) high overshoot
(C) **non-zero offset** (D) instability of process
- Which valve is most commonly used for throttling service?
(A) **glove valve** (B) needle valve (C) ball valve (D)

Electrical

- Which of the following is only a power electronics component?
(A) **thyristor** (B) diode (C) transistor (D) none of these
- What type of instrument is used to measure dc voltage of the order 5 volts?
(A) moving iron type (B) electro-static type (C) **moving coil type** (D) all of these

17. Which of the following has negative temperature coefficient?
(A) brass (B) mercury (C) **electrolytes** (D) silver
18. Fibre glass insulation can be used up to temperature of
(A) 60°C (B) 80°C (C) **130°C** (D) 180°
19. In an oil filled transformer, oil is provided for
(A) cooling (B) insulation (C) lubrication (D) **both (A) and (B)**

Mechanical

20. Which of the following is the natural abrasive
(A) Al_2O_3 (B) SiC (C) boron carbide (D) **corundum**
21. Generally bearing bushes are made of
(A) copper (B) white metal (C) gun metal (D) **brass**
22. Blast furnace uses the following as fuel
(A) coal (B) **coke** (C) diesel (D) producer
23. Best conductor of heat and electricity is
(A) nickel (B) **copper** (C) chromium (D) aluminium
24. Arc welding uses following electric supply
(A) ac (B) dc (C) **both ac and dc** (D) spiral waveform

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