

THURSDAY, FEBRUARY 3, 2011
ROBERT BOSCH-Placement Sample Paper

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1. Critical stress at which material will start to flow
 - (a) yield
 - (b) ultimate tensile stress
 - (c) proof stress
 - (d) none of the above
2. maximum degree of freedom in space
Ans. 6
3. bearing which will take axial and radial loads.
 - (a) thrust bearing
 - (b) deep groove
 - (c) taper roller
 - (d) ---
4. volume of water per cubic metre of air.
 - (a) specific volume
 - (b) specific gravity
 - (c) vapour pressure
 - (d) none of above
5. fluid is flowing through a frustum of cone. what is the nature of graph of velocity Vs. c/s area. {flow = velocity X c/s area}
 - (a) parabola
 - (b) hyperbola
 - (c) $y=mx+c$
 - (d) $x=x$.
6. Fluid in a pipe having no change in profile with change in length of pipe ...explain type of flow.
 - a) Laminar
 - b) Turbulent
 - c) fully developed profile
 - d) steady flow
7. Which are correct
 - I) Navier Stokes Eq. is of momentum conservation eq.
 - II) Bernoulli's eq. is for viscous flow
 - III) REYNOLD no. >3000 always for turbulent flow.
 - a) I and II correct
 - b) I and II not correct
 - c) II and III correct
 - d) II and III not correct
8. Which can't be removed during alloying from Fe alloys
 - a) Co
 - b) N
 - c) Si
 - d) As
9. There are two ropes burning non uniformly (rate) and each takes half an hour to burn. which can't be clocked ?
 - a) 1 Hr.
 - b) 45 min
 - c) 15 min
 - d) none
10. $\lim_{n \rightarrow \infty} (1 + 1/n)^n =$
 - a) 1
 - b) 0

- c)e
d)infinity
11. time dependent increase in length at steady temp. is called
a) superplasticity
b) creep
c) fatigue
d) none
12. Viscosity change with increasing temp.
a) decreases
b) increases
c) same
d) first decreases and then increases.
13. Direction of friction in bicycle tyres
a) along motion
b) opp. motion
c) Front opp. motion and vice versa
d) rear opp. motion and vice versa
14. Sp. gravity of a fluid
a) density of fluid at 0`c / density of water at 0`c.
b) density of fluid at 0`c / density of water at T`c.
c) density of fluid at T`c / density of water at 0`c.
d) density of fluid at T`c / density of water at T`c.
15. lateral strain / longitudinal strain
a) Poission's Ratio
b) Bulk Modulus
c) Modulus Of Elasticity
d) None
16. 10 coins & 1 defected coin and 2 weighs Find min weighs req. to detect faulty coin
a) 2
b) 3
c) 4
d) 5
17. 9 members in meeting scheluled at 10:00 A.M. , all reaches at 9:48 A.M. . one member req. 2 min to intro with other
find meeting delay with scheduled time of 10:00 A.M..
a) 1 Hr.
b) 6 min
c) ...
d) At scheduled time
18. A completes job in 10 hr. and B completes in 15 hr.. Find when both together works
a) 6 hr.
b) 8 hr
c) 10 hr
d) none
19. A ball dropped from H height and moves 80% of height each time.Total dist. covered
a) 4H
b) 5H
c) 7H
d) 9H
20. A cantilever beam loaded at free end find reinforcement place
a) AT neutral axis
b) above neutral axis
c) below neutral axis
d) above and below neutral axis

21. punching a sheet of D dia and T thickness and S ultimate tensile stress
- 3.14 DTS
 - $3.14TS \times D^2$
 - 6.28 DTS
 - $6.28 TS \times D^2$
22. & 23. two easy ques. of string mass equilibrium system...
24. Microstructure after quenching
- Mertensite
 - pearlite
 -
 -

- which
- what

36. The children ran in _____ they disappeared.
- but
 - and
 - .
 - .

37. Skin: human
- hide: animal
 - peel: potato
 - :
 - :

38. Editor: Magazine
- actor: film
 - captain: ship
 - director: film
 - .

PREPARE DES PERFECTLY...I'VE PUT EXACTLY WOT I READ IN QUESTION PAPER...DON'T NEGLECT DES....
u R GONNA GET 30 questions rite if u prepare des well...So guys al da best...I din prepa
re well...but did something...gotta c...results ll b given in another two dayz they said...resul
ts ll b out in net dey said...!!!!

Prepare well...do well....AM SO HAPPY giving out dez questions...i remember DES many ah!!!!
!wow man...and IF DEZ QUESTIONS HELPED U, DEN ILL BE WAITING FOR A THANK YOU MESSAGE...
Regards
Madhu...

Edited by Sonia86 - 17Apr2010 at 2:26pm

Robert Bosch is a leading supplier of technology and services, and has a strong presence in the country at numerous locations in diverse industry segments. Bosch set up its manufacturing operations in 1953, and has grown over the years to 14 manufacturing sites and 3 development centers. Bosch employs about 18,030 associates in India, and in business year 2008 achieved total consolidated revenue of over Rs. 6400 crores.

Bosch innovations have shaped cars from the start and will keep doing so in future. As the world's biggest independent automotive supplier, Bosch focuses on innovations to make driving safer, cleaner and economical. Automotive Technology is the largest business segment of Bosch in India, supplying to the local automotive industry, and exporting components overseas.

Why Robert Bosch - Why should i join Robert Bosch?:-

Bosch not just onlookers of developments in India, but have been in the heart of those developments for many years. Bosch India, for example, India's largest automotive supplier is the largest Indo-German company - one which repeatedly receives awards for its vocational and further training.

Innovation and quality drive work at Bosch in both automotive and non-automotive areas. Bosch invite you to be a part of our committed professional pool who contributes to the corporation's worldwide success with their dedication, energy and ideas.

Ministry of Communications and Information Technology Shri Gurdas Kamat

The Bosch Group is one of the world's biggest private industrial corporations. Headquartered in Stuttgart, Germany, the Bosch Group has some 283,500 employees worldwide, and generated annual sales revenue of 47.3 billion euros in 2010. There are about 350 subsidiary and regional companies around the world.

In India, Bosch is a leading supplier of technology and services, and has a strong presence in the country at numerous locations in diverse industry segments. Bosch set up its manufacturing operations in 1953, and has grown over the years to 14 manufacturing sites and 3 development centers. Bosch employs about 22500 associates in India, and in business year 2010 achieved total consolidated revenue of over 6630 crores.

In India, the Bosch Group operates through the following companies -

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- Bosch Ltd.
- Bosch Chassis Systems India Ltd.
- Bosch Rexroth India Ltd.
- Robert Bosch Engineering and Business Solutions Ltd.
- Bosch Automotive Electronics India Private Ltd.
- Bosch Electrical Drives India Private Ltd.

Business Sectors

Automotive technology

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Business divisions: Diesel Systems, Gasoline Systems, Chassis Brakes, Automotive Accessories, Car multimedia, Starters and Generators, Energy and Body Systems, Electrical Drives, Spark Plugs and Glow Plugs.

Industrial technology

Bosch Rexroth AG is an expert for all drive, control and motion technologies. The Bosch Packaging Machines division in India brings the global expertise to address the needs of the local confectionary and pharmaceutical industries. The Special Purpose Machines (SPMs) and High Precision Toolings division engineers customized equipment using cutting-edge technologies for industries.

Business divisions: Automation technology, Packaging Machines, Special Purpose Machines.

Consumer goods and building technology

The Bosch Power Tools division in India is the market leader in the segment, offers a complete range of power tools for construction, woodworking and metalworking industry; cordless tools, accessories and tools for DIY (Do-It-Yourself) enthusiasts as well. The Security Systems division in India is one of the leading security technology players with a comprehensive portfolio. The Bosch Home Appliances division made its India debut in 2011, and manufactures a range of world-class refrigerators, washing machines, dryers and dishwashers.
Business divisions: Power Tools, Security Systems, Home Appliances.

Engineering and IT Services

The Engineering and Information Technology division of Bosch in India is the largest development center of Bosch outside Germany. For over 15 years, it has been the preferred engineering services and solutions partner for the Bosch Group worldwide

Chassis Systems Brakes Division

The Chassis Systems Brakes Division develops and manufactures innovative braking systems for the automotive industry within a global network. As part of the world's largest independent parts supplier to the automotive industry we offer our customers advanced technology, quality and excellent services, all from a single source.

Full Brakes System Competence is a strength of Chassis Systems Brakes. We offer all products and services around braking systems. That includes: Noise Vibration and Harshness, integration of the newest simulation models, competence in hydraulic braking systems, disc brakes, rotors, friction material and close coordination with brake modulation like ABS and ESP.

The continual improvement of driving security and comfort supports our aspiration to be the preferred partner of our customers.

Areas of operation:

- Hydraulic braking systems: Brake boosters, master cylinders and brake-assistance systems
- Wheel brakes: Disc brakes, drum brakes, parking brakes and rotors

Diesel Systems Technical Centre India (TCI)

Diesel Systems Division

As part of an international alliance, the Diesel Systems Division develops, applies and manufactures diesel systems which contribute to making vehicles cleaner and more economical. At the same time, our systems serve as the basis for making the diesel engine a more sporting and enjoyable power plant.

As the world's leading manufacturer of diesel injection systems, Bosch has available the perfect system for every customer and every application.

Fuel Injection Equipment, often referred to as the heart of the engine, plays a major role in its performance, emission and reliability. Fuel Injection Equipment play a critical function of injecting a metered quantity of fuel, at a predetermined time and in a predetermined fashion. For a given engine, the requirements

vary with speed, load and operating conditions. The requirements also vary from engine to engine. With technical developments made in both in the engine and fuel injection equipment over the last few years, diesel vehicles have changed their image from being sluggish and noisy to a more sporty, cleaner and comfortable one.

Diesel Fuel Injection Equipment (FIE) has been the core business of Bosch Ltd., right from its inception in 1951. Today Bosch Ltd. continues to be a supplier of FIE to a majority of Original Equipment Manufacturers (OEMs) with a market share of over 81%. Bosch Ltd. has also earned a place for itself, in the Bosch world, where it has been identified as Center of Competence for Single Cylinder pumps, Multi-Cylinder Inline ('A' and 'P' type) and Distributor pumps (Mechanical and Electronic type). In addition to the range of mechanical pumps, Bosch Ltd. with the support of Bosch has introduced Electronic Diesel Control (EDC) systems such as Distributor pumps (Electronic type) and Common Rail Systems (CRS) in India.

Gasoline Systems Division

We are an extended wing of Bosch Gasoline systems, Germany which develops and manufactures modern gasoline - engine systems that contribute to making vehicles more dynamic, cleaner and more economical.

Our aspiration is to be the preferred partner in India for gasoline engine management systems. To this end we offer our customers top class technology, high quality products and services. We have a dedicated team experienced to cater to the requirements and needs of the Indian customer.

Areas of operation

- Technical Sales
- Product development
- Application
- Manufacture
- Product service

Robert Bosch Car Multimedia GmbH provides intelligent solutions that allow the flexible and efficient integration of entertainment, navigation, telematics, and driver assistance in the vehicle. In this context, information presentation and processing are becoming increasingly important. Driver information and assistance systems are developed to take issues such as growing customer interest in fuel consumption and emissions reduction into account. In-car infotainment architectures are becoming increasingly networked. The decisive question is how the vehicle and the driver (or passenger) interact, and via what channels. Optimizing the future of the mobile world is the task, and driving convenience is the goal. That's why Bosch Car Multimedia works continuously to make driving easier, more cost-effective, and safer, despite increasing complexity.

Our core areas of competence include:

- Radio, entertainment, navigation, and telematics systems
- System integration of complex, networked car multimedia systems
- Devices and systems for commercial vehicles
- Premium instrument clusters and head-up displays
- Innovative tuner technology
- Functional components
- Repair of automotive electronic components