

ROBERT BOSCH PAPER ON 14th NOVEMBER

Hi...All

I am Hari. I am a mechanical graduate, 2006 fresher. I have attended 'Robert Bosch' written test on 14th November. I have applied only thru the link given in our website. Only 60 to 70 people (mechanical) were allowed to write the test who came with call letters. Only one mechanical paper of Bosch is available in our site. So I am sending this paper. This pattern is for mechanical students.

TOTAL DURATION OF TEST IS 90 min & "NEGATIVE MARKING IS THERE."

SECTION 1.

Total 50 questions correct Answer +2 marks, wrong answer -1 mark.

Out of 50 ques.....40 from engineering and 10 from aptitude.

SECTION 2.

Total 25 questions on English.

Paper is as follows....

SECTION 1:

1. Two forces acting along the same line but in the opposite directions. they are called a) Concurrent b) coplanar c) collinear d) non concurrent (c)

2. Two basic systems of forces (c)

a) Coplanar, concurrent b) non concurrent, concurrent

c) Coplanar, non coplanar d) concurrent, non coplanar

3. Formula for power in HP

4. Forces lying in the same plane but never met (b)

a) concurrent b) parallel c) d)

5. Gear ratio for helical gears one of 30 tooth and the other 60 tooth

a) 800:1 b) 2:1

6. Four rectangle strips of size 10 X 1 inch are placed on a table as shown in the figure. what is the area covered on the table. (a)

a) 36 b) 40 c) 1600 d) 80

7. If u traveled 45 min at 4 miles per hr and 30 min at 3 miles per hr. what is the distance covered by u in 1 hr and 15 min. (b)

a) 8 miles b) 6 miles c) 7 miles d) 10

8. A ball of weight 10N is dropped freely from rest at a height of 4 mts. what is its total mechanical energy after it has traveled 1 meter.

9. Two bodies of same mass are traveling at a velocity of 2 m/sec in opposite direction. After collision one travelled with 1.8 m/sec what about the other..

a) equal to 1.8 m/sec b) more than 1.8

c) Less than 1.8 d) can not say

10. If X-component of a force is -Ve and Y-component is +Ve, in which plane the Resultant would be (a) check it

a) First quadrant b) second c) third d) fourth

11. A body is said to be in equilibrium (c)

a) if it is in rest b) if it is in uniform velocity

c) if the sum of the forces acting on it is zero d) none

12. $X^{15} - X^{13} + X^{11} - X^9 + X^7 - X^5 + X^3 - X = 7$ then value of X^{16} ?

13. a chain of length 1 m and mass 1 kg is placed on a table. What length of the chain must be hanged freely from the table so that it will drag the remaining chain freely (d)
a).55 b).66 c) 0.5 d).75
14. Main purpose of governor (d)
a) to live happy life b) to increase engine speed
c) to decrease engine speed d) to run engine smoothly
15. A steel beam of mass m and length l is placed on a surface. A couple u is applied at the ends to rotate the beam at 90° . What is the work done.
16. A & B are two weight lifters. A can lift 100 pounds 10 times a minute, whereas B lifts 100 pounds 10 times a second. Who is doing more power and work. (c)
a) A & B b) A only c) B only d) none.
17. A ship is 77 Km away from the shore. It had a leak due to which water is flowing into the ship @ 1 ton/min. A pump is used to pump the water out of the ship @ 30 ton/hr. The ship sinks if the water Qty reaches 210 ton. What should be the speed of the ship to reach the shore before it sinks. (11)
a) 7 mph b) 11 mph c) 15 d) 20
18. Very simple ..que..find the hypotenuse ...
1) Sides 8, 11, find hyp 2) a similar one..to find side..
19. Which is the largest side in a right angled triangle
a) hypotenuse b) adjacent side c) opposite side
20. The angle of depression from the top of a building to another building is 12° . The distance b/n the two is 50 mts. What is the difference in the height of buildings. (a)
a) 10.6 b) 20.3 c) 10.4 d) 48.9
21. Simplify $[\sqrt[3]{27} - \sqrt{(27/4)}]^2$
22. Belt drives are mainly used for (d)
a) to reverse the direction of power in belts. b) to transmit its power.
c) to d) all
23. BS thread profile has
a) $14^{1/2}$ b) 45° c) 25° d) 90°
24. The main purpose of bearings (b)
a) to reduce noise. b) to reduce friction c) d)
25. When compared to spur gears bevel gears are more .. (a)
a) noisy b) smooth
26. The angle b/n bore axis of gear and the tangent to the teeth profile is called (b)
a) P.A b) helix c)
27. The circle touching the outer edge of the teeth is called (c)
a) Base circle.. b) pitch circle c) addendum circle d)....
28. The area of the piston A is 10 cm^2 and that of B is 4 cm^2 . If 10N load is applied on the piston A what is the force on the piston B. (c)
a) 100N b) 40N c) 10N d) none
29. The force exerted by a spring depends on (d)
a) Material of the spring b) Design of the spring c) Length of the spring d) all
30. If a body is isolated from its mating parts and all forces acting on it are shown then it is called. (c)
a) BM diagram b) SF diagram c) free body diagram d) none

31. A coin and a ring of same mass and diameter r allowed to roll smoothly from the top of an inclined plane. which one reaches the bottom first.

a) coin b) ring c) both reach same time d) none

32. A ball is thrown horizontally. After hitting the ground it again rises with some velocity. This is because.. (b)

a) ball is still having velocity b) it gains momentum from the ground. c) d)

33. a problem on balancing masses..

34. a mass is rotating.. with rad/sec.. simple problem ... on basics..

35 given 0 (c)

a) $c+d/a+b$ b) $c+a/b+d$ c) $a+b/c+d$ d)....

36 to 50 sorry.. i forgot....

SECTION 2:

51

TO } Passage with blanks..

55

56

to } another passage with blanks..

60

61 to 65 proverbs..

1. don't look at a gifted horse..

a) at b) in life.... c) in dreams d)

2. more hands.....

a) make more work easy b) more light work c) d)

3. people living in glass houses.....

a) may not throw stones b) didn't throw stones c) cannot throw stones d) should not throw stones

4.

5.

65 to 75 appropriate meaning

1. Go for (a)

a) try b) get it c) quit d)

2. Go overboard..... (a)

a) exaggerated b) exaggerate c) exagatred d) none.

3. Go bad

a).... b) bad c) not good d) none

4. go wrong (b)

a) fail b) mistake c) d)

5. meaning of batten (a)

a) noun : a long wood of metal strip

b).....

c)..... d).....

That all guys... i changed some options.. and also check the answers.. i am waiting for the results... hope for my good results..

All the best....