



MATHS

BOOKS - PEARSON IIT JEE FOUNDATION

SHARES AND DIVIDENDS



1. Find the market value of a Rs.300 share bought at a discount of Rs.60.



2. If a share of Rs.150 is available at a permium of Rs.50, then find the market value of 250 such shares.



3. Dhanik invests a certain amount in 300,Rs.75

shares of a company paying $10\,\%$ divident.

investment.



4. Ameer invests Rs.24,200 in buying Rs.100 shares of a company avilable at a premium of 10%. If the company pays a dividend of 15%, then find the number of shares bought by Ameer, and the rate of return on his investment.

5. Which is better investment: Rs.300 shares at

Rs.320 thay pays a dividend of 10~% , or Rs.200

shares at Rs.215 that pays a dividend of 10~% ?

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6. The capital of a company is Rs.250,000. If this capital is raised by issuing shares of Rs.8 each, then how many shares are there ?

7. A company has 500 shares of Rs.25 each. If Rs.15 is paid-up for each share, then what is the paid-up capital? Also, find the amount to be paid in the second investment.

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8. The authorized capital of a company is Rs.400,000, and the number of shares is 800. What is the face value of each share? If the

paid-up capital is Rs.260,000, then what is the

paid-up value of each share?



9. Which of the following is the least attractive scheme?

A. 5~% of Rs.120 shares at Rs.150.

B. 6~% Rs.105 shares at Rs.140.

C. 7% Rs.105 shares at Rs.125.

D. 8% Rs.80 shares at Rs.108.

Answer:



10. Mohan invested Rs.24,000 in 8 % Rs.400 shares at Rs.320. He sold them at Rs.360 after one year. Find the total profit he earned. (in Rs.)

A. 6540

B. 5400

C. 6600

D. 7200

Answer:

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11. Rahul bought 30 shres at Rs.160 each. The par value of each share was Rs. 150. The dividend paid to him was at 6 % per annum. By how much did his total investment exceed his total annual income? (in Rs.).

B. 4430

C. 4630

D. 4330

Answer:

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12. Alcx invested in the shares of a company. If the price of each share was Rs.20 more, then his investment would be Rs.6000 more. How many shares did he buy? A. 300

B. 400

C. 360

D. 450

Answer:



13. Imran invested equal amounts in the shares of two companies A and B. A offered him a 4% return while B offered him a 6%

return. Which of the following can be the effective rate of return he receives on his entire investment?

A. 4%

B. 5 %

 $\mathsf{C.}\,7\,\%$

D. 6%

Answer:

1. A company has 5 lakh shares of Rs. 15 each.

The capital of the company is _____.

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2. If Rs.150 share is quoted at a premium of

Rs.10, then the market value of the share is Rs.

3. The annual income derived from each Rs.200 share at a premium of Rs.30, paying 10% dividend is Rs. _____.



4. A man invests Rs.13,200 in a company to by

Rs.55 shares. The number of shares he bought

is _____.



6. A company is selling shares at Rs.96 each has a par value of Rs.120. The discount percentage is _____.



9. Pardhiv bought two types of shares A and B worth Rs.5000 each. If he bought 25 type A shares and 20 type B shares, then the difference between their face value is _____.

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10. The person who subscribes in shares is

called a _____.

11. Face value and market value of a share are Rs.100 and Rs.120 respectively, and the rate of return is 10 %. Then, dividend is _____ (in %).

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12. The paid-up capital of a company is Rs.50,000. If the company has shares of face of Rs.25 in which Rs.20 is paid-up, then how many shares does it have ? What is the authorized capital of the company?

13. A company has 500 shares of face value Rs.50 in which Rs.30 is paid-up. The company collects Rs.12,000 as the second instalment. What is the paid-up value of each share now?



14. The authorized capital of a company is Rs.150,000 and the number of shares is 500. What is the face value of each shares is 500.

What is the face value of each share ? If the paid-up capital is Rs.60,000, then what is the paid-up value of each share?

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15. The authorized capital of a company is Rs.50,000 and the number of shares is 1000. If the paid-up capital is Rs.25,000, then the paid-up value of each share is Rs.

1. When shares of face value Rs.50 each are sold above par at Rs.10 premium, then the money required to buy 30 such shares it



2. A company has shares of face value Rs.50 in which Rs.25 is paid-up and the paid-up capital



3. Ramesh bought 30 Rs.200 shares of a company available at a - premium of Rs.25. Find the investment made by Ramesh, and also the rate of interest (returning gets on his money if the company pays a dividend of 8 % per annum.



4. Rakesh invested Rs.27,000 in Rs.27 shares of a company which pays a dividend of 10%. Find the market value of each share if he derives an annual income of Rs.540 from this investment, also find the number of shares he bought.

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5. A Rs.100 shares is bought at a premium of Rs.25. If the investment is worth 9% per

annum, then find the rate at which the

company pays the dividend.



Eassy Type Questions

1. Ranvir gets 8% per annum, on his investment made in buying Rs.80 shares of a company for Rs.100 each. What is the rate of dividend, and what is his annual dividend if he purcheses 500 such shares?





2. Determine the amount that is to be invested in Rs.200 shares available at a premium of Rs.40, so that the annual income earned is Rs.4800 from the investment if the dividend offered is 12%.

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3. Rs,33,000 is to be divided into two parts, such that the income from one part invested

in Rs.200 shares at Rs.250 for 10% dividend is the same as that from the other investment which was invested in Rs.120 shares at Rs.150 for 12% dividend. Determine the amounts invested in the two kinds of sheares.

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4. An investment in buying 400 shares of a company at a premium of Rs.2.50 earns an income of 9.6% per annum. If the rate of

dividend paid by the company is 12~% , then

find the face value of each share.



5. If the investment made in buying 150 shares

of a company at Rs. 6 above par is Rs.99,000,

then find the face value of each share.



Concept Application Level 1

1. Amit bought 150 shares of Rs.100 each. The paid-up value of each share is Rs.60. Find the amount to be paid as a second instalment. (in Rs.)

A. 5000

B. 6000

C. 4500

D. 7500

Answer: B



2. Lavan had two types of shares. He had 800 shares of type A which gave him an annual dividend of Rs.4000. If he had 200 more shares of type B than A, which gave him the same annual dividend, then find his annual income from each share of B. (in Rs.)

A. 4

B. 3.50

 $D.\,2.50$

Answer: A

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3. Prakash had Rs.120 shares of worth Rs.7200. If he sold each of them for Rs.30 more than its face value, then find his revenue from sales. (in Rs.)

A. 7200

B. 8000

C. 9000

D. 6400

Answer: C

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4. Bhaskar bought Rs.130 shares at a discount of Rs.10. Find the number of shares he bought for Rs.15,600.

A. 120

B. 130

C. 140

D. 150

Answer: B

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5. Ashok bought Rs.135 shares of a company at premium. If the company provides the same premium amount as discount, then its market

value will decrease by 50~%. Find the

premium. (in Rs.)

A. 40

B.45

C. 50

D. 55

Answer: B



6. The total annual dividend obtained by Ajay from the shares of a company was 25% of the total investment on them. Find the ratio of his investment on each share, and the dividend from each share.

A. 3:1 B. 4:1 C. 5:1

D. 6:1

Answer: B



7. Kalyan bought 600, Rs.x shares at 20% premium from a company. If these had been bought at 20% discount, then his investment would have been Rs.2400 less. How many Rs.x shares have a total face value of Rs.20,000?

A. 2000

B. 1600

C. 1000

D. 800

Answer: A

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8. Aswin bought some shares of Rs.75 from a company. He paid Rs.50 as a paid-up value of each share, Rs.32,000 as a paid-up capital. Find the total authorized capital of Aswin. (in Rs.)

A. 40000

B. 48000

C. 56000

D. 60000

Answer: B

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9. Shyam had some shares. He sold them at Rs.12 discount. He realized Rs.800 less than what he would have realized if he had sold

them at Rs.8 premium. Find the number of

shares he sold.

A. 40

B. 50

C. 60

D. 80

Answer: A



10. Sashi bought Rs.16 shres of a company at 25% dividend. Find the premium he paid for the shares (in Rs.), if he received 20% rate of return.

A. 4

B. 3

C. 6

D. 5

Answer: A



11. Kiran bought Rs.10 shares of a company. He received a rate of return which was one-third of the dividend rate he received. Market value of each share is _____. (in Rs.)



Answer: C



12. A company sells two types of shares A and B. The market value of A is 50% more than that of B and is 25% less than the face value of A. The market value of A and face value of B are equal. By what percentage is the sum of the face values of both more than the sum of the market values of both? A. 30~%

 $\mathsf{B.}\,45~\%$

C. 35~%

D.40

Answer: D



13. Prasad invested Rs.4000 to buy type A shares of a company. He invested in the same company to buy Rs.4000 worth type B shares

at face value. Market value of A equals equals face value of B. If he bought a total 64 shares of both, how many type A shares did the buy?

A. 6

B. 24

C. 32

D. 40

Answer: C

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14. Kishore invested a certain sum of money in two types of share A and B of a company. The market value of A is Rs.30 more than that of B. He bought 400 shares of A and 300 shares of B. If he spent Rs.18,000 more on A than B, then find the market value of each share of B. (in Rs.)

A. 30

B.40

C. 50

Answer: D



15. Raju bought Rs.40 shares of a company which had a market value of Rs.60. He received a dividend of 30%. How much more (or) less would have been his annual dividend per share, if his dividend rate and rate of return were interchanged?

A. Rs.2 more per share.

B. Rs.3 more per share.

C. Rs.4 less per share.

D. Rs.6 less per share.

Answer: C

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Concept Application Level 2

1. Gopal bought two types of shares P and Q, of a company at their face values. The dividend

rates provided by P and Q are 9% and 12%, respectively. Gopal received an annual dividend of Rs.4500 more from P than from Q. Which of the following can be the ratio of his investments in P and Q?

A. 6:5

- B. 5:4
- C.4:3
- D. 2:1

Answer: D



2. If the rate of return and dividend from a share are r % and d % respectively, find the premium/discount %, given d gt r.



Answer: C





3. If the rate of return from share P was 4% more, then the annual income from it would be Rs.5 more. Find its market value. (in Rs.)

A. 125

B. 100

C. 120

D. 150

Answer: A



4. If Rs.4000 more was invested in share A, 20 more shares can be purchased. If Rs.4000 less was invested in A, 2) less shares can be purchased. Find the market value of A. (in Rs.)

A. 100

B. 150

C. 200

D. 300

Answer: C



5. If the price of share A was Rs.10 more, 50 less shares can be pruchased by investing Rs.x. If the price of A was Rs.20 less, 25 more shares can be purchased by investing Rs.x. Find the ratio of the price of each share and the number of shares purchased.

A. 3:5

B. 5:3

C.2:5

D. 5:2

Answer: C

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6. Which of the following can be concluded from the information given below? 'Ajay bought, 12% Rs.100 shares at Rs.120. A. Dividend per share = Rs.12

B. Rate of return = 10 %

C. Both (a) and (b)

D. Neither (a) nor (b)

Answer: C

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7. Hari invested Rs.24,000 in buying shares worth Rs.300 each. The dividend paid to him

was Rs.20 per share. Find his total annual

income from the shares. (in Rs.)

A. 1200

B. 2000

C. 2400

D. 1600

Answer: D

8. Shares worth Rs.300 each were bought at a discount of Rs.60. The dividend paid was 6% per annum. Find the rate return.

- A. $5\,\%\,$ per annum
- B. 6~% per annum
- C. $7.5~\%\,$ per annum
- D. 8% per annum

Answer: C



9. Which of the following is the least attractive scheme?

A. 4% Rs.40 shares at Rs.50.

B. $5\,\%\,$ Rs.50 shares at Rs.60

C. 6~% Rs.60 shares at Rs.70

D. $7\,\%\,$ Rs.70 shares at Rs.80

Answer: A

10. Shares worth Rs.200 each were bought at a premium of Rs.40. The dividend paid was 8% per annum. Find the annual income per share. (in Rs.)

A. 16

B. 12.6

C. 8

D. 19.2

Answer: A



Concept Application Level 3

1. Rohit invested in two types of shares, P and Q, of a company. He purchased P at x % discount and Q at x % premium. If the total market value of each is equal, find the rate of effective discount (in per cent).

A. 0.1~%

B.
$$\frac{x^2}{400}$$
 %



Answer: D

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2. Shares A and B have face values of Rs.100 each. A is sold at Rs.x premium, and B is sold at Rs.x discount. The rate of return from each is x %. The sum of the annual dividends from both is Rs.10. Find x. B. 8

C. 5

D. 10

Answer: C

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3. Mahendar invested in three types of shares, P, Q and R, of a company. The total annual dividend he received from them was Rs.1000. His investments in R, Q and R were Rs.1000, Rs.1000 and Rs.3000, respectively. The rate of return he received from R was the averge of the rates of return of the other two. Find the rate or return he received from R.

A. 10~%

 $\mathsf{B.}\,20~\%$

C. 15 %

D. 25~%

Answer: B



4. Goutham invested Rs.4000 to buy Rs.125 shares of type from a company and invested Rs.4800 to buy Rs.120 shares of type B from it. He obtains 8% dividend from A and 10% dividend from B. Find the total annual dividend he carried if the market value of each equals its face value. (in Rs.)

A. 600

B. 750

C. 800

D. 1000

Answer: C

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5. Ashok invested in three types of shares, P, Q and R, of a company. He invested Rs.5000 and Rs.7500 in P and Q, respectively. He obtained rates of returns of 10%, 8% and 15% from P, Q and R, respectively. His annual income from the three types was a total of Rs.1550.

How much did he invest in R? (in Rs.)

A. 2500

B. 2000

C. 3500

D. 3000

Answer: D



6. If Lokesh's investment was Rs.4800 more, his annual income would be Rs.240 more. Find the rate of return.

- A. 4.5~%
- $\mathsf{B.}\,4\,\%$
- C. 5.5 %
- D. 5 %

Answer: D



7. In the previous question, the rate of return

is

A. equal to the rate of dividend.

B. greater than the rate of dividend.

C. less than the rate of dividend.

D. Either (a) or (b)

Answer: C

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8. Kira invests in the shares of a company. If he buys 48 shares more, he will invest Rs.1200 more. If he buys 40 shares less, the total face value of his shares will be Rs.800 less. He must

buy each share _____.

A. at par

B. below par

C. above par

D. Cannot be determined

Answer: C



9. Rohit invested Rs.39,600 in buying shares of nominal value of Rs.100 at a 20% premium. The dividend paid to him was at 6% per annum. Find his annual income. (in Rs.)

A. 1950

B. 1980

C. 1920

D. 2010





10. In the previous question, if Rohit bought all shares at par, then find the rate at which the dividend was paid to him.

A. 4.5~%

 $\mathsf{B.4\,\%}$

 $\mathsf{C}.\,5.5\,\%$

D. 5~%

Answer: D

