

Amdocs mock test-1

- Q1. A person observes the angle of elevation of a building as 30° . The person proceeds towards the building with a speed of $25(\sqrt{3}-1)$ m/hour. After 2 hours, he observes the angle of elevation as 45° . The height of the building (in m) is:
- (a) $50(\sqrt{3}+1)$ (b) 50 (c) 100 (d) $50(\sqrt{3}-1)$
- Q2. A man purchased a cycle for Rs 3,000 and sold it the same day for Rs 3,600, allowing the buyer a credit of 2 years. If the rate of interest be 10% per annum, then the man has a gain of
- (a) 7.5% (b) 5% (c) 20% (d) None of these
- Q3. What equal instalment of annual payment will discharge a debt which is due as Rs. 848 at the end of 4 years at 4% per annum simple interest
- (a) Rs. 200 (b) Rs. 212 (c) Rs. 225 (d) Rs. 250
- Q4. 'a' divides 228 leaving a remainder 18. The biggest two digit value of 'a' is
- (a) 20 (b) 30 (c) 35 (d) 70
- Q5. On a journey across Kolkata, a taxi averages 50 km per hour for 50 percent of the distance, 40 km per hour for 40 percent of it and 20 km per hour for the remaining. The average speed (in km/hour) for the whole journey is
- (a) 35 (b) 40 (c) 42 (d) 45
- Q6. A and B run a kilometre and A wins by 25 seconds. A and C run a kilometre and A wins by 275 m. When B and C run the same distance, B wins by 30 seconds. The time taken by A to run a kilometre is
- (a) 3 minutes 30 seconds (b) 3 minutes 20 seconds
(c) 2 minutes 50 seconds (d) 2 minutes 25 seconds
- Q7. If Rs 10 be allowed as true discount on a bill of Rs 110 due at the end of a certain time, then the discount allowed on the sum due at the end of double the time is:
- (a) 22 (b) 21.81 (c) 20 (d) 18.33
- Q8. Two men A and B working together complete a piece of work which it would have taken them 30 and 40 days respectively to complete if they worked separately. If they received a payment of ₹ 21,000, B's share is
- (a) 8000 (b) 12000 (c) 9000 (d) None of these
- Q9. Sixteen men can complete a work in twelve days. Twenty-four children can complete the same work in eighteen days. Twelve men and eight children started working and after eight days three more children joined them. How many days will they now take to complete the remaining work?
- (a) 6 (b) 4 (c) 2 (d) None of these
- Q10. Two persons stole the gold chain. The probability of catching the first person is $\frac{1}{4}$. The probability of catching the second person is $\frac{1}{6}$. What is the probability that only one of them is caught?
- (a) $\frac{6}{12}$ (b) $\frac{2}{3}$ (c) $\frac{1}{3}$ (d) $\frac{5}{12}$ (e) None of these

Q11. If FESTIVAL is coded as MBWJUTFG, then OPIUM would be coded as:

- (a) NOHTL (b) NTHNO (c) NVJQP (d) MUIPO

Q12. **Question:** How many visitors saw the exhibition yesterday ?

You have to decide whether the data provided in the statements are sufficient to answer the question.

Statements:

- I. Each entry pass holder can take up to three persons with him/her.
II. In all, 243 passes were sold yesterday.

- (a) I alone is sufficient while II alone is not sufficient
(b) II alone is sufficient while I alone is not sufficient
(c) Either I or II is sufficient (d) Neither I nor II is sufficient (e) Both I and II are sufficient

Q13. In covering a distance of 30 km, Karan takes 2 hours more than Gagan. If Karan doubles his speed, then he would take 1 hour less than Gagan. Karan's speed (in km/hr) is

- (a) 7.5 (b) 6.25 (c) 6 (d) 5

Q14. A and B working together can complete a piece of work in 12 days. B and C working together can complete the same work in 16 days. A worked at it for 5 days and B worked at it for 7 days. C finished the remaining work in 13 days. How many days would C alone take to complete it?

- (a) 32 (b) 24 (c) 10 (d) 40

Q15. 'Indolence' is related to 'Work' in the same way as 'Taciturn' is related to:

- (a) Cheat (b) Act (c) Speak (d) Observe

Q16. A hemispherical bowl is 176 cm round the brim. Supposing it to be half full, how many persons may be served from it in hemispherical glasses with diameter of 4 cm at the top?

- (a) 1372 (b) 1272 (c) 1172 (d) 1472

Q17. In the following number series a wrong number is given. Find out that number. 8, 18, 40, 86, 178, 370, 752

- (a) 128 (b) 156 (c) 178 (d) 180

Q18. Due to global recession starting in January, Ram's monthly salary of Rs 8,000 was cut by 10%. The monthly expenses, which were Rs 6,000, increased at the rate of 5% per month. From which month will he have no savings if the recession lasted for a year?

- (a) May (b) April (c) March (d) June

Q19. If $4x - 3y = 19$ and $x + 2y = 13$, what are the respective values of x and y?

- (a) 5, 4 (b) 6, 5 (c) 7, 3 (d) 8, 7

Q20. The distance between two cities A and B is 330 km. A train starts from A at 8 a.m. and travels towards B at 60 km/hr. Another train, starts from B at 9 a.m. and travels towards A at 75 km/hr. At what time will they meet?

- (a) 11.30 a.m. (b) 11 a.m. (c) 10.30 a.m. (d) 10 a.m.

Directions for questions (21-24): Each of the following questions is based on the following information:

- Six flats on a floor in two rows facing North and South are allotted to P, Q, R, S, T and U.
- Q gets a North facing flat and is not next to S.
- S and U get diagonally opposite flats.
- R next to U, gets a south facing flat and T gets North facing flat.

Q21. If the flats of P and T are interchanged then whose flat will be next to that of U?

- (a) P (b) Q (c) R (d) T

Q22. Which of the following combination get south facing flats?

- (a) QTS (b) UPT (c) URP (d) Data is inadequate

Q23. The flats of which of the other pair than SU, is diagonally opposite to each other?

- (a) QP (b) QR (c) PT (d) TS

Q24. Whose flat is between Q and S?

- (a) T (b) U (c) R (d) P

Q25. The simple interest on Rs. 7300 from 11 May 1987 to 10 September 1987 (both days included) at 5% per annum is:

- (a) Rs. 123 (b) Rs. 136 (c) Rs. 212 (d) Rs. 223

Q26. A person lent Rs. 5000 partly at the rate of 4 per cent and partly at the rate of 5 per cent per annum simple interest. The total interest after 2 years is Rs. 440. To find the sum of money lent at each of the above rates Rs. 5000 is to be divided in the ratio

- (a) 2 : 3 (b) 3 : 2 (c) 4 : 5 (d) 5 : 4

Q27. If the sum of the digits of any integer lying between 100 and 1000 is subtracted from the number, then the result is always

- (a) Divisible by 2 (b) Divisible by 5 (c) Divisible by 6 (d) Divisible by 9

Directions for questions (28-32): Study the following information and answer the given questions.

In coded language,

“Karma would be anywhere” is coded as “wp bn qu tl”

“Anywhere policy will be” is coded as “an wp bn sh”

“Karma be yours strength” is coded as “tl bn ft er”

Q28. What is the code for the word 'strength'?

- (a) ft (b) er (c) bn (d) tl (e) Either ft or er

Q29. If 'will please' is coded as 'sh pr' then what can be the possible code for 'policy care' in the coded language?

- (a) an bn (b) an ut (c) ut wp (d) ut tl (e) sa pz

Q30. Which among the following word is coded as 'bn'?

- (a) Anywhere (b) Karma (c) Would (d) Be (e) None of the above

Q31. What is the code for the word 'anywhere'?

- (a) wp (b) qu (c) tl (d) bn (e) None of the above

Q32. What is the code for the word 'Yours'?

- (a) ft (b) er (c) sh (d) Either ft or er (e) None of the above

Q33. The next number of the sequence 2, 6, 12, 20, 30, 42, 56 is

- (a) 72 (b) 70 (c) 64 (d) 60

Q34. If 4 cards are drawn at random from a pack of cards, find the probability that at least 3 cards are spade cards.

- (a) 913/15000 (b) 813/17000 (c) 713/17000 (d) 913/16000 (e) 913/20825

Q35. Select a suitable figure from the Answer Figures that would replace the question mark (?).

Problem Figures:



- (A) (B) (C) (D)

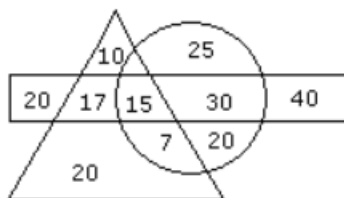
Answer Figures:



- (1) (2) (3) (4) (5)

- (a) 1 (b) 2 (c) 3 (d) 4 (e) 5

Directions for questions (36-38): Study the diagram given below and answer each of the following questions.



- △ → Persons who takes tea
○ → Persons who takes coffee
□ → Persons who takes wine

Q36. How many persons who take tea and wine but not coffee ?

- (a) 20 (b) 17 (c) 25 (d) 15

Q37. How many persons are there who take both tea and coffee but not wine ?

- (a) 22 (b) 17 (c) 7 (d) 20

Q38. How many persons take wine ?

- (a) 100 (b) 82 (c) 92 (d) 122

Q39. **Statements:** All the phones are scales. All the scales are calculators.

Conclusions:

1. All the calculators are scales.
2. All the phones are calculators
3. All the scales are phones.
4. Some calculators are phones.

- (a) Only (1) and (4) (b) Only (3) and (4) (c) Only (2) and (4) (d) Only (1) and (2) (e) Only (1) and (3)

Q40. In a certain code, EXPLAINING is written as PXEALNIGNI. How is PRODUCED written in that code?

- (a) ORPBUDEC (b) ROPUDECD (c) ORPUDECD (d) DORPDECU (e) None of these

Answer key

1	B	9	B	17	C	25	A	33	A
2	D	10	C	18	B	26	B	34	E
3	A	11	C	19	C	27	D	35	E
4	D	12	D	20	B	28	E	36	B
5	B	13	D	21	C	29	B	37	C
6	D	14	B	22	C	30	D	38	D
7	C	15	C	23	A	31	A	39	C
8	C	16	A	24	A	32	D	40	D