



Nucleus Software mock - 1

Q1. There are 3 vacancies	vacancies in a firm	n and 15 applican	ts. Find the total n	umber of ways of filling these	
(a) 3375	(b) 2730	(c) 560	(d) 600	(e) None of these	
Q2. The number consecutive nun		ng four numbers	from 1 to 30 so as	to exclude every selection of four	
(a) 27378	(b) 29465	(c) 26368	(d) 11448	(e) None of these	
	a journey withou y in 6 hours 40 mi			ed 5 km an hour faster, it would h	ave
(a) 35 km/hr	(b) 25 km/hr	(c) 40 km/hr	(d) 20 km/hr	(e) 30 km/hr	
•	ts to cover a distar speed in the rem		5 minutes. If he co	vers 3/4 of the distance in 2/3 of t	ime,
(a) 16 km/hr	(b) 8 km/hr	(c) 12 km/hr	(d) 55 km/hr	(e) 10 km/hr	
	•	-		tes. 2% of the total votes were nber of valid votes polled in favou	r of
(a) 56056	(b) 56506	(c) 56560	(d) 56650		
	12 women can do men working toge	•	n 25days, in how n	nany days, can the work be done b	у 6
(a) 12 days	(b) 15 days	(c) 9 days	(d) 18 days	(e) 10 days	
•	promised to do a jo Vhat is the origina	-		e absent and remaining men did th	ne
(a) 50 men	(b) 60 men	(c) 65 men	(d) 70 men	(e) 55 men	
•	_	_		at number. If we add 18 to the en in reverse order. Find the numb	er
(a) 42	(b) 24	(c) 72	(d) 27 (e) N	one of these	
next one hour, r	emains constant ir	n next one hour a	nd again increases	rst two hours, decreases by 10% in by 5% per hour in next two hours he approximate red blood cell cou	s. If
(a) 48000	(b) 48025	(c) 48054	(d) 48920		





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Q10. A boy aged 12 years is left with Rs. 100000 which is under a trust. The trustees invest the money at 6%

per annum and expenses of trus minor boy after	st come out to	be Rs. 500 p	er annum. F	•	•		•
(a) Rs. 118000 (b) Rs. 120000		0000 (c)	(c) Rs. 125000		(d) Rs. 150000		
Q11. Bill, Simon brother as he is older than half t	older than th	e other. Simoi	n is 7 years y	ounger th	an twice the	age of John. Jol	
(a) 12	(b) 24	(c) 4	(c) 48 (d)		(e) Car	nn't say	
Q12. Cost price was sold at a provalue of 'X'?						-	
(a) 2	(b) 140	(c) 34	10	(d) None	of these		
Q13. In a school football nor cric						of the student	s neither play
(a) 8%	(b) 22%	(c) 32%	ć	(d) 40%			
Q14. A motorbo total of 4 hours	•	-		_		eam and come	s back in a
(a) 4 (b) 5	(c) 6	(d) 10				
Q15. The simple interest on the s				•		. 129 less than	the simple
(a) Rs. 3600	(b) Rs. 2529	(c) Rs.	2400	(d) Rs. 25	80		
Q16. The average the class the average months old. The	erage become	s 13 years 9 n	nonths. The	youngest o			
(a) 10 years 4 m	onths (b) 1	1 years 2 mon	ths (c)	12 years 4	months	(d) 13 years 6	months
Q17. The effectiv	e annual rate o	of interest corre	esponding to	a nominal r	ate of 6% per	annum payable l	nalf-yearly is:
(a) 6.06%	(b) 6.079	% (c)	6.08%	(d) 6.0	9%		
Q18. A cube of edbase of the vesse	_	•	•	_	ssel containing	g water. If the dir	nensions of the
(a) 10.25 cm	(b) 11.25	cm (c)	12.25 cm	(d) 13	.25 cm		

Q19. Try to check for the difference between numbers or multiplication, division pattern. Find the odd one out?



Jraining for Professional Competence 36, 54, 18, 27, 9, 18.5, 4.5 (d) 18 (a) 4.5 (b) 18.5 (c) 54Q20. Find the odd one out in the following: Mars, Earth, Saturn, Sun, Neptune, Mercury (a) Mars (b) Mercury (c) Neptune (d) Sun Q21. The volume of a cube is 1728 cc. Find its surface. (a) 864 Sq.cm (b) 648 Sq.cm (c) 486 Sq.cm (d) 468 Sq.cm Q22. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize? (a) 1/10 (b) 2/5(c) 2/7(d) 5/7Q23. A and B take part in 100 m race. A runs at 5 kmph. A gives B a start of 8 m and still beats him by 8 seconds. The speed of B is: (a) 5.15 kmph (b) 4.14 kmph (c) 4.25 kmph (d) 4.4 kmph Q24. Two pipes A and B can fill a cistern in 37(1/2) minutes and 45 minutes respectively. Both pipes are opened. The cistern will be filled in just half an hour, if the B is turned off after: (a) 5 min. (b) 9 min. (c) 10 min. (d) 15 min. Q25. A boat can travel with a speed of 13 km/hr in still water. If the speed of the stream is 4 km/hr, find the time taken by the boat to go 68 km downstream. (a) 2 hours (b) 3 hours (c) 4 hours (d) 5 hours Q26. Two stations A and B are 110 km apart on a straight line. One train starts from A at 7 a.m. and travels towards B at 20 kmph. Another train starts from B at 8 a.m. and travels towards A at a speed of 25 kmph. At what time will they meet? (a) 9 a.m. (b) 10 a.m. (c) 10.30 a.m. (d) 11 a.m. Q27. A and B invest in a business in the ratio 3:2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is: (a) Rs. 1425 (b) Rs. 1500 (c) Rs. 1537.50 (d) Rs. 1576 Q28. Solve the following simplification questions 5÷√5=? (a) √5 (b) 5 (c) 25 (d) 0.05



(a) 380

(b) 395



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Q29. Find the le weight of 1 gm?	•	ssible weights th	at can be used to measure 6	3 gm of gold using a single
(a) 63	(b) 62	(c) 10	(d) 6	
Q30. (√289/34)	× (68/V1156) × (V	961/62) = ?		
(a) ½	(b) ¾	(c) 5/6	d) 7/8	
Q31. In a 500 m Then, A wins by		the speeds of tw	o contestants A and B is 3 :	4. A has a start of 140 m.
(a) 60 m	(b) 40 m	(c) 20 m	(d) 10 m	
•	•		s in the ratio 5:7:8. they had ratio of their investments? (d) None of these	partnered for 14 months, 8
number with its	=	ed. As a result his	s answer is 1.8 less than the	ers, by mistake, he writes one correct answer. The
(a) 6	(b) 4	(c) 3	(d) 2	
Q34. The avera	ge of all the numb	ers between 6 ar	nd 50 which are divisible by !	5 is:
(a) 22	(b) 27.5	(c) 28.5	(d) 30	
2.40 per hour fo		= -	•	g hours are 8. A man gets Rs. Rs. 432 in 4 weeks, then how
(a) 160	(b) 175 (c) 180 (d) 195	
	e park at the spee		h of a rectangular park is 3 : mpletes one round in 8 minu	2. If a man cycling along the utes, then the area of the
(a) 15360	(b) 153600	(c) 30720	(d) 307200	
Q37. The sum o	-	vo-digit number i	s 15 and the difference betw	veen the digits is 3. What is
(a) 69	(b) 78 (c)) 96 (d)	Cannot be determined	(e) None of these
	ct of two numbers of the numbers is:	s is 9375 and the	quotient, when the larger o	ne is divided by the smaller,

(d) 425

(c) 400





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Q39. The product of two numbers is 4107. If the H.C.F. of these numbers is 37, then the greater number is:

(a) 101

(b) 107

(c) 111

(d) 185

Q40. The least multiple of 7, which leaves a remainder of 4, when divided by 6, 9, 15 and 18 is:

(a) 74

(b) 94

(c) 184

(d) 364

Answer key

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