23GET276–VQARII

IAE1EXAMQUESTIONBANK

1.	Apersoncrossesa600mlongstreetin5minutes.What ishisspeedinkmper hour?	
	a)3.6	b)**7.2**
	c)8.4	d)10
2.	A can do a work in 15 days and B in 20 days. If they work on it together for4 days, then the fraction of the work that is left is	
	a)¼	b) 1/10
	c)7/15	**d) 8/15**
3.	Atrain125m longpassesaman,runningat5km/hrinthesamedirectioninwhichthetrainisgoing, in10seconds.Thespeedofthetrainis	
	a)45 km/hr	**b) 50 km/hr**
	c)54 km/hr	d)55 km/hr
4.	Anaeroplanecoversacertaindistanceataspeedof240kmphin5hours.Tocoverthesamedistance in$1\frac{2}{3}$hours,itmust travelataspeedof:	
	a)300 kmph	b)360 kmph
	c)600 kmph	d)**720 kmph**
5.	Twotrainsrunninginoppositedirectionscrossamanstandingontheplatformin27secondsand17 secondsrespectivelyandtheycrosseachotherin23seconds.Theratiooftheirspeedsis:	
	a)1:3	**b) 3 :2**
	c)3:4	d)Noneofthese
6.	AandBcantogetherfinishawork30days.Theyworkedtogetherfor20daysandthenBleft.After another20days,Afinishedtheremainingwork.InhowmanydaysAalonecanfinishthework?	
	a)40	b) 54
	c)50	**d) 60**
7.	Atrain360mlongisrunningataspeedof45km/hr.Inwhattimewillit passabridge140mlong?	
	a)40 sec	b)42 sec
	c)45sec	d)48 sec
8.	Agoodstrainrunsatthespeedof72kmphandcrossesa250mlongplatformin26seconds.Whatis thelengthofthegoods train?	
	a)230 m	b)240 m
	c)260 m	**d) 270m**
9.	A man on tour travels first 160 km at 64 km/hr and the next 160 km at 80 km/hr. The average speedfor the first 320 km of the tour is:	
	a)35.55km/hr	b)36 km/hr
	c)71.11km/hr	d)71 km/hr
10.	A, B and C can do a pieceof workin 20, 30and 60 days respectively. In how manydays can A do the work if he is assisted by B and C on every third day?	

	a)12 days	**b)15 days**
	c)16 days	d)18 days
11.	Ajoggerrunningat9kmphalongsidearailwaytrackin240metresaheadoftheengineofa120 metreslongtrainrunningat45kmphinthesamedirection.Inhowmuchtimewillthetrainpassthe jogger?	
	a)30sec	b)18 sec
	c)36sec	d)72 sec
12.	A candoa piece of workin4 hours; BandCtogethercan doit in3hours, whileA and Ctogether can do it in 2 hours. How long will B alone take to do it?	
	a)8 hours	b)10 hours
	c)12 hours	d)24 hours
13.	Incoveringadistanceof30km,Abhaytakes2hoursmorethanSameer.IfAbhaydoubleshisspeed, thenhewouldtake1hourlessthanSameer.Abhay'sspeedis:	
	a)5 kmph	b)6 kmph
	c)6.25kmph	d)7.5 kmph
14.	Atrain240mlongpassesapolein 24seconds. Howlongwillittaketo passaplatform650mlong?	
	a)65sec	**b) 89 sec**
	c)100sec	d)150sec
15.	10womencancompleteaworkin7daysand10childrentake14daystocompletethework.How manydayswill5womenand10childrentaketocompletethe work?	
	a)3	**b) 7**
	c)5	d)Noneofthese
16.	Aboatcan travelwith aspeed of13 km/hrin stillwater. Ifthe speedofthestreamis4 km/hr,findthe timetakenbytheboattogo68kmdownstream	
	a)2 hours	b)3 hours
	c)4 hours	d)5 hours
17.	Theratiobetweenthespeedsoftwotrainsis7:8.Ifthesecondtrainruns400kmin4hours,thenthe speedofthefirsttrainis:	
	a)70 km/hr	b)75 km/hr
	c)84 km/hr	**d) 87.5 km/hr**
18.	Inonehour,aboatgoes11km/hralongthestreamand5km/hragainstthestream.Thespeedofthe boatinstillwater(inkm/hr)is	
	a)3 km/hr	b)5 km/hr
	c)8 km/hr	d)9 km/hr
19.	Atrainspeedspastapolein15secondsandaplatform100 mlongin25seconds.Itslengthis:	
	a)50 m	**b) 150m**
	c)200 m	d)250 m
20.	Sakshican doapieceofwork in20days.Tanyais 25%moreefficientthanSakshi. Thenumberof days taken by Tanya to do the same piece of work is:	
	a)15	b) 18
	c)16	d) 25
21.	Aboatrunningdownstreamcoversadistanceof16kmin2hourswhileforcoveringthesame	

	distanceupstream,ittakes4hours.Whatisthespeedoftheboatinstillwater?	
	a)4 km/hr	**b) 6 km/hr**
	c)8 km/hr	d)Datainadequate
22.	AtakestwiceasmuchtimeasBorthriceasmuchtimeasCtofinishapieceofwork.Working together,theycanfinishtheworkin2days.Bcandotheworkalonein:	
	a)4 days	**b) 6 days**
	c)8 days	d)12 days
23.	Twotrains140mand160mlongrunatthespeedof60km/hrand40km/hrrespectivelyinopposite directionsonparalleltracks.Thetime(inseconds)whichtheytaketocrosseachother,is	
	a)9	b)9.6
	c)10	**d) 10.8**
24.	A works twice as fast as B. If B can complete a work in 12 days independently, the number of days in which A and B can together finish the work in :	
	a)4 days	b)6 days
	c)8 days	d)18 days
25.	Howmanysecondswilla500 metrelongtraintaketo crossaman walkingwithaspeedof3km/hrin thedirectionofthemovingtrainifthespeedofthetrainis63km/hr?	
	a)25	**b) 30**
	c)35	d) 40
26.	Twentywomencandoaworkinsixteendays.Sixteenmencancompletethesameworkinfifteen days.Whatistheratiobetweenthecapacityofamananda woman?	
	a)3:4	**b) 4 :3**
	c)5:3	d)Datainadequate
27.	Twotrainsarerunninginoppositedirectionswiththesamespeed.Ifthelengthofeachtrainis120 metresandtheycrosseachotherin12seconds,thenthespeedofeachtrain(inkm/hr)is:	
	a)10	b) 18
	c)36	d) 72
28.	AandBcandoaworkin8days,BandCcandothesameworkin12days.A,BandCtogethercan finishitin6days.AandCtogetherwill doit in:	
	a)4 days	b)6 days
	c)8 days	d)12 days
29.	Atrain 110metreslong isrunning with aspeed of60 kmph.Inwhattimewillitpass amanwho is running at 6 kmph in the direction opposite to that in which the train is going?	
	a)5 sec	**b) 6 sec**
	c)7 sec	d)10 sec
30.	AandBtogethercandoapieceofworkin30days.Ahavingworkedfor16days,Bfinishesthe remaining work alone in 44 days. In how many days shall B finish the whole work alone?	
	a)30 days	b)40 days
	c)60 days	d)70 days
31.	Atrainrunningatthespeedof60km/hrcrossesapolein9seconds.Whatisthelengthofthetrain?	
	a)120 metres	b)180 metres
	c)324 metres	**d)150metres**

32.	The speed of a boat in still water in 15 km/hr and the rate of current is 3 km/hr. The distance travelled downstream in 12 minutes is	
	a)1.2 km	b)1.8 km
	c)2.4 km	**d) 3.6 km**
33.	A300metrelongtraincrossesaplatformin39secondswhileitcrossesasignalpolein18seconds. Whatisthelengthofthe platform?	
	a)320 m	**b) 350m**
	c)650 m	d)Datainadequate
34.	Speed of a boat in standing water is 9 kmph and the speed of the streamis 1.5 kmph. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is	
	a)16 hours	b)18 hours
	c)20 hours	**d)24 hours**
35.	Three pipes A, B and C can fill a tank from empty to full in 30 minutes, 20 minutes, and 10 minutes respectively. When the tank is empty, all the three pipes are opened. A, B and C discharge chemical solutionsP,QandRrespectively.WhatistheproportionofthesolutionRintheliquidinthetankafter 3 minutes?	
	a)5/11	**b) 6/11**
	c)7/11	d) 8/11
36.	Amantakestwiceaslongtorowadistanceagainstthestreamastorowthesamedistanceinfavour ofthestream.Theratiooftheboat(instillwater)andthestreamis	
	a)2:1	**b) 3 :1**
	c)3:2	d)4 :3
37.	Twopipescanfillatankin20and24minutesrespectivelyandawastepipecanempty3gallonsper minute. All the three pipes working together can fill the tank in 15 minutes. The capacity of the tankis:	
	a)60 gallons	b)100 gallons
	c)120gallons	d)180 gallons
38.	TwopipesAandBcanfillatankin20and30minutesrespectively.Ifboththepipesareused together,thenhowlongwillittaketofillthetank?	
	a)12min	b)15 min
	c)25 min	d)50 min
39.	Ina100 mrace,AcangiveB10mandC28m.InthesameraceBcangiveC	
	a)18 m	**b) 20m**
	c)27 m	d)9 m
40.	One pipe can fill a tankthree times asfast as another pipe. If together thetwo pipes canfill the tankin 36 minutes, then the slower pipe alone will be able to fill the tank in	
	a)81 min	b)108 min
	c)144min	d)192 min
41.	Ina100mrace,AbeatsBby10mandCby13m.Inaraceof180m,BwillbeatCby	
	a)5.4 m	b)4.5 m
	c)5 m	**d) 6 m**
42.	In100mrace,Acoversthedistancein36secondsandBin45seconds.InthisraceAbeatsBby	
	a)20m	b)25 m

	c)22.5m	d)9 m
43.	Fromagroupof7menand6women,fivepersonsaretobeselectedtoformacommitteesothatat least3menarethereonthecommittee.Inhowmanywayscanitbe done?	
	a)564	b)645
	c)735	**d) 756**
44.	In how many different ways can the letters of the word 'LEADING' be arranged in such a way that the vowels always come together?	
	a)360	b)480
	c)720	d)5040
45.	Outof7consonantsand4vowels,howmanywordsof 3consonantsand2vowelscanbeformed?	
	a)210	b)1050
	c)25200	d)21400
46.	Inhowmanywayscantheletters oftheword'LEADER'be arranged?	
	a)72	b) 144
	c)360	d) 720
47.	In a group of 6 boys and 4girls, four children are to be selected. In how many different ways can they be selected such that at least one boy should be there?	
	a)159	b)194
	c)205	**d) 209**
48.	Inhowmanywaysacommittee,consistingof5menand6womencanbeformedfrom8menand10 women?	
	a)266	b)5040
	c)11760	d)86400
49.	In how many different ways can the letters of the word 'DETAIL' be arranged in such a way that thevowels occupy only the odd positions?	
	a)32	b) 48
	c)36	d) 60
50.	Inhowmanywayscanagroupof5menand2womenbemadeoutofatotalof7menand3women?	
	a) 63	b) 90
	c)126	d) 135
51.	A, B and C can do a pieceof workin 20, 30and 60 days respectively. In how manydays can A do the work if he is assisted by B and C on every third day?	
	a)12 days	**b)15 days**
	c)16 days	d)18 days
52.	Aalonecandoapieceofworkin6daysandBalonein8days.AandBundertook todoitforRs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?	
	a) Rs. 375	**b) Rs. 400**
	c) Rs. 600	d)Rs. 800
53.	3 pumps, working 8 hours a day, can empty a tank in 2 days. How many hours a day must 4pumps work to empty the tank in 1 day?	

	a)9	b)10
	c)11	**d) 12**
54.	If aquarter kgofpotato costs 60paise, howmanypaisewill 200 gm cost?	
	a)48 paise	b)54 paise
	c)56 paise	d)72 paise
55.	If 7spiders make7 websin 7days, then1 spider will make1 webin howmanydays?	
	a)1	b)7/2
	c)7	d)49
56.	In howmanyways acommittee, consistingof5 menand 6 women can be formedfrom 8 men and 10 women?	
	a)266	b)5040
	c)11760	d)86400
57.	Inhowmanydifferentwayscanthelettersoftheword'OPTICAL'bearrangedsothatthe vowels always come together?	
	a)120	**b) 720**
	c)4320	d)2160
58.	36 mencan complete apieceofworkin 18 days. In howmanydays will 27 mencompletethe same work?	
	a)12	b)18
	c)22	**d) 24**
59.	A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drawn from the box, if at least one black ball is to be included in the draw?	
	a)32	b)48
	c)64	d)96
60.	Howmany4letterwordswithorwithoutmeaning,canbeformedoutofthelettersofthe word, 'LOGARITHMS', if repetition of letters is not allowed?	
	a)40	b)400
	c)5040	d)2520