तर्कशक्ति परीक्षण

इनमें से कौन नीचे दी गई अभिव्यक्ति में व्यंजक 'A > D' एवं 4. 1. 'F > C' को निश्चित रूप से सत्य साबित करने के लिए प्रश्न चिन्ह (?) के स्थान पर आयेगा ? $A > B \ge C ? D \le E = F$ (1) >(2) < (3) < (4) =5. (5) या तो = अथवा > निम्नलिखित में से कौन सी अभिव्यक्ति सत्य होगी, यदि दिया 2. गया व्यंजक 'R < P' एवं 'S > Q' निश्चित रूप से सत्य है? (1) $S > T \ge R > Q > P$ (2) $S > T \ge R > Q < P$ $(3) \quad Q > R \leq T > P \geq S$ 6. (4) $P > Q = R \leq T < S$ (5) इनमें से कोई नहीं निर्देश : दी गई सूचना को सावधानीपूर्वक पढ़ें एवं नीचे दिए गए प्रश्नों के उत्तर दें। 7. 'A × B' का अर्थ है 'A, B का पिता है।' 'A + B' का अर्थ है 'A, B की पुत्री है।' 'A ÷ B' का अर्थ है 'A, B का पुत्र है।' 'A – B' का अर्थ है 'A, B की बहन है।' नीचे दी गई अभिव्यक्ति में प्रश्न के चिन्ह के स्थान पर क्या 3. 8. आएगा, जो 'P, S का दामाद है' को सत्य साबित करता है? $P \times Q + R - T ? S$ (1) +(2) × (3) -(4) ÷ (5) या तो + अथवा ÷ निर्देश (4-8) : दी गई सूचना को सावधानीपूर्वक पढ़ें एवं नीचे दिए गए प्रश्नों के उत्तर दें। सात मार्केटिंग मैनेजर - A, B, C, D, E, F एवं H हफ्ते के चार दिनों –मंगलवार, बुधवार, शुक्रवार एवं शनिवार को बाजार का दौरा करने जाते है। दिये गए प्रत्येक दिन कम-से-कम एक एवं अधिक-से-अधिक दो बाजार का दौरा करने जाते है। इनमें से प्रत्येक विभिन्न टेलिकॉम कंपनियों-वोडाफोन, रिलायंस बीएसएनएल, एमटीएनएल, युनिनॉर, एयरटेल एवं आईडिया से संबंधित है। D शुक्रवार को जाता है एवं एमटीएनएल कंपनी से संबंधित है। वह व्यक्ति, जो बीएसएनएल से संबंधित है, ना तो E एवं H के साथ दौरा करने जाता है और ना ही उस दिन जाता है जिस दिन युनिनॉर का मैनेजर जाता है। F आईडिया से संबंधित है एवं मंगलवार को अकेले ही दौरा करने जाता है। B बुधवार को दौरा करने जाता है एवं वह बीएसएनएल से संबंधित नहीं है। C बधवार को दौरा करने जाता है जबकि H एयरटेल से संबंधित नहीं है। वह व्यक्ति, जो बीएसएनएल से संबंधित है, उस व्यक्ति के साथ दौरा करने जाता है, जो वोडाफोन से 9.

संबंधित है। वह व्यक्ति एयरटेल से संबंधित है, शुक्रवार को दौरा करने

जाता है। A शनिवार को दौरा करने जाता है तथा युनिनॉर से संबंधित

रिलांयस से संबंधित व्यक्ति के साथ निम्नलिखित में से कौन सी टेलीकॉम कंपनी से संबंधित व्यक्ति दौरा करने जाता है ? (2) वोडाफोन (1) युनिनॉर (3) बीएसएनएल (4) डाटा अपर्याप्त है (5) इनमें से कोई नहीं सप्ताह के किस दिन E दौरा करने जाता है ? (1) बुधवार (2) शनिवार (3) बुधवार या शनिवार (4) शुक्रवार (5) इनमें से कोई नहीं इनमें से कौन A के साथ बाजार का दौरा करने जाता है ? (1) कोई नहीं (2) H (3) E (4) D (5) या तो H अथवा D सप्ताह के किस दिन एमटीएनएल मैनेजर एवं एयरटेल मैनेजर दौरा करने जाते है ? (1) बुधवार (2) शुक्रवार (3) शनिवार (4) डाटा अपर्याप्त है। (5) इनमें से कोई नहीं निम्नलिखित में से किस कंपनी से C संबंधित है ? (2) वोडाफोन (1) बीएसएनएल (3) युनिनॉर (4) डाटा अपर्याप्त है। (5) इनमें से कोई नहीं निर्देश (9-13) : नीचे दिए गए प्रत्येक प्रश्न में एक प्रश्न और उसके नीचे दो कथन I और II दिए गए हैं। आपको यह तय करना है कि कथनों में दिये गये आंकडे प्रश्न का उत्तर देने के लिए पर्याप्त है या नहीं है। दोनों कथनों को पढ़ें एवं उत्तर दें-(1) यदि केवल कथन I में दिये गये आंकड़े प्रश्न का उत्तर देने के लिए पर्याप्त है, जबकि केवल कथन II में दिये गये आंकडे प्रश्न का उत्तर देने के लिए पर्याप्त नहीं है। (2) यदि केवल कथन II में दिये गये आंकड़े प्रश्न का उत्तर देने के लिए पर्याप्त है, जबकि केवल कथन I में दिये गये आंकडे प्रश्न का उत्तर देने के लिए पर्याप्त नहीं है। (3) यदि या तो केवल कथन I या केवल कथन II में दिये गये आंकडे प्रश्न का उत्तर देने के लिए पर्याप्त है। (4) यदि कथन I और कथन II दोनों को आंकडे मिलाकर भी प्रश्न का उत्तर देने के लिए पर्याप्त नहीं है। (5) यदि कथन I और कथन II दोनों को आंकडे मिलकर प्रश्न का उत्तर देने के लिए आवश्यक है। P, Q, R, S एवं T, जिसमें प्रत्येक की उम्र अलग-अलग है, में कौन सबसे कम उम्र का है ? I. Q, केवल P से कम उम्र का है। II. S, केवल R से बड़ी उम्र का है।

है।

REASONING

5.

1. Which of the following symbols should | 4. replace question mark (?) in the given expression in order to make the expressions 'A > D' and 'F \geq C' definitely true ?

 $A > B \ge C ? D \le E = F$

2. Which of the following expressions is definitely true if the given expressions R < P'as well as 'S > Q' are definitely true ?

(4) =

(1) S > T > R > Q > P

(2)
$$S > T > R > Q < P$$

- $(3) \quad Q > R \leq T > P \geq S$
- (4) $P > Q = R \leq T < S$
- (5) None of these

Directions : Read the following information carefully and answer the following question :

- 'A \times B' means 'A is the father of B'.
- 'A + B' means 'A is the daughter of B'.

'A ÷ B' means 'A is the son of B'.

- 'A B' means 'A is the sister of B'.
- 3. What will come in place of question mark to establish that P is the son-in-law of S in the following expression ?

 $P \times Q + R - T ? S$

$$(1) + (2) \times (3) - (4) \div$$

(5) Either + or \div

Directions (4-8) : Study the following information carefully and answer the questions given below: Seven marketing managers - A, B, C, D, E, F and H visit market on four days - Tuesday, Wednesday, Friday and Saturday in a week. At least one manager but not more than two managers visit in market on each of these days. Each of them belongs to different Telecom companies - Vodafone, Reliance, BSNL, MTNL, Uninor, Airtel and Idea.

D visits on Friday and belongs to MTNL company. The person who belongs to BSNL neither visits on the day Uninor's manager visits nor with E and H. F belongs to Idea and visits alone on Tuesday. B visits on Wednesday and he does not belong to BSNL. C visits on Wednesday, H does not belong to Airtel. The person who belongs to BSNL visit with the person who belongs to Vodafone. The person who belongs to Airtel visits on Friday. A visits on Saturday and belongs to Uninor.

- The person belongs to which of the following Telecom company visits with the person related to Reliance ? (2) Vodafone
 - (1) Uninor (3) BSNL
 - (4) Data inadequate
 - (5) None of these On which day of the week does E visit?
 - (1) Wednesday
 - (2) Saturday
 - (3) Wednesday or Saturday
 - (4) Friday
 - (5) None of these
- 6. Who among them visit the market along with A?
 - (1) None (2) H
 - (3) E (4) D
 - (5) Either H or D
- 7. On which day MTNL manager and Airtel manager visit ?
 - (1) Wednesday (2) Friday
 - (3) Saturday (4) Data inadequate
 - (5) None of these
- 8. With which company does C belong to ?
 - (1) BSNL (2) Vodafone
 - (3) Uninor (4) Data inadequate
 - (5) None of these

Directions (9-13) : Each of the questions below consists of a question and two statements numbered I and II are given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and Give answer:

- (1) If the data in statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.
- (2) If the data in statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.
- (3) If the data either in statement I alone or in Statement II alone are sufficient to answer the question.
- (4) If the data given in both the statement I and II together are not sufficient to answer the question.
- (5) If the data in both the statement I and II together are necessary to answer the question.
- 9. Among P, Q, R, S and T each having different age, who is the youngest among them?
 - I. Q is younger than only P.
 - II. S is older than only R.

10.	सप्ताह के किस दिन सौरव दिल्ली भ्रमण करने जाता है ?	15. चरण V में दाएं से 5वें स्थान पर कौन सी शब्द∕संख्या होगी?		
	I. सौरव सोमवार के बाद किन्तु गुरूवार के पहले सप्ताह के	(1) 19 (2) 97		
	विषम दिन पर दिल्ली जाता है।	(3) gold (4) drink		
	II. सौरव शुक्रवार से पहले किन्तु सोमवार के बाद भ्रमण पर	(5) इनमें से कोई नहीं		
	जाता है।	16. आउटपुट के अंतिम चरण में उपस्थित 'gold' एवं '46' के		
11.	किसी कतार में बाएं से R का स्थान क्या है ?	बीच कितने अवयव है ?		
	I. M कतार के बाएं से 10वें स्थान पर है।	(1) एक (2) तीन		
	II. M एवं R के बीच 16 बच्चे है।	(3) चार (4) पाँच		
12.	यासिर का जन्म किस दिन हुआ था ? (उसके जन्म दिन की	(5) इनमें से कोई नहीं		
	तारीख फरवरी 29 है।)	17. निम्नलिखित में से कौन चौथें चरण में ' who ' की स्थिति को		
	I. उसका जन्म सन् 2005 एवं 2011 के बीच हुआ था।	दर्शाता है ?		
	II. वह फरवरी 29, 2012 को 4 वर्ष का हो जायेगा।	(1) बाएं से आठवां (2) दाएं से पाँचवा		
13.	64 विद्यार्थियों में 38 शतरंज एवं क्रिकेट दोनों खेलते है। इनमें	(3) बाएं से छठा (4) बाएं से पाँचवा		
	से कितने केवल शतरंज खेलते है ?	(5) इनमें से कोई नहीं		
	I. 64 विद्यार्थियों में 22 विद्यार्थी कोई क्रीड़ा नहीं करते हैं। 4	18. निम्नलिखित में से कौन चरण IV होगा ?		
	विद्यार्थी केवल क्रिकेट खेलते हैं।	(1) 19 89 who root 46 near link gold 61 23		
	11. 64 विद्यार्थिया में 20 लंड्रांकया हे एवं उनमें से 10 काइ	under 71 97 drink		
<u> </u>	क्राड़ा नहा खलत हा	(2) 71 61 46 23 19 89 who under 97 drink		
ानदश जन्म र्न	(14-18) निम्नालाखत जानकारा का ध्यानपूर्वक अध्ययन	gold link near root (2) $61.46.02 \pm 0.90$ who must up don 71.07		
कर न मन- ग	ाच । दए गए प्रश्ना क उत्तर दा। जए: रूच तांच्या सम्पन्न स्वे उत्तर प्राच्ये और संख्याओं	(3) 61 46 23 19 89 who root under 71 97		
एक २ जनी गट	ाष्ट्र/ संख्या व्यवस्था मंशान का जब शब्दा आर संख्याआ र तनगर जार्नन नी जानी है, जन प्रचोक नागा में एक जिप	(4) 97 89 71 61 46 23 19 drink gold link		
का एव निराम	क इनपुट लाइन दा जाता ह, वह प्रत्यक चरण में एक खास का गालन करने हुए उन्हें पर्नत्यावरिशन करनी है। नीचे	near root under who		
ा अन् रनगर	भी पार्शन करता हुए उन्हें पुराष्ट्रपति करता हो नाज भौग पर्नलातम्भा का एक स्टारमण दिसा गया है।	(5) None of these		
३गपु८ (मधी	जार पुगव्ययस्या का एक उदाहरण दिया गया हा मंग्रज्यामं तो अंकों की दे॥	निर्देश (19-22) : दी गई सूचना को सावधानीपूर्वक पढ़ें एव		
दनपट	: talk 61 26 mold boom 88 81 47 work	नीचे दिए गए प्रश्नों के उत्तर दें।		
knov	vn ink 36 69 cold	किसी निश्चित कोड में, 'always create new ideas' को 'ba		
चरण	I: 26 talk 61 mold 88 81 47 work	ri sha gi', लिखा जाता है। 'ideas and new thoughts' को		
	known ink 36 69 cold boom	'fa gi ma ri', लिखा जाता है। 'create thoughts and		
चरण	II : 36 26 talk 61 mold 88 81 47 work	insights' को 'ma jo ba fa', लिखा जाता है एवं 'new and		
	known ink 69 boom cold	better solutions' को 'ki ri to fa' लिखा जाता है।		
चरण	III: 47 36 26 talk 61 mold 88 81 work	19. 'fa' क्या निरूपित करता है ?		
च्चा	1000 Kilowii 09 boolii cold link 1000	(1) thoughts (2) insights		
ગ∖ગ	boom cold ink known	(3) new (4) and		
चरण	V : 69 61 47 36 26 talk 88 81 work boom	(5) इनमें से कोई नहीं		
	cold ink known mold	20. निम्नलिखित में से किसका 'fa lo ba' का कोड हो सकता है?		
चरण	VI : 1 69 61 47 36 26 88 work boom cold	(1) thoughts and action		
	ink known mold talk	(2) create and innovate (3) ideas and thoughts		
चरण	VII: 88 81 69 61 47 36 26 boom cold ink	(4) create new solutions		
च्चा ।	KHOWH HIOLU LALK WOFK VII इस पर्नव्यवस्था का अंतिम चगण है। ऊष्ण दिम गण पर्नव्यवस्था	(5) इनमें से कोई नहीं		
जरण के अन	••• २२० उत्तरात्र के उचित उत्तर दें।	21. 'new' का कोड क्या है ?		
1 Tr - SI ((1) 1-: (0) mi		
दुनप्रट	89 who root 19 46 near drink link gold	(1) KI (2) II I		
इनपुटः 61 2	: 89 who root 19 46 near drink link gold 3 under 71 97	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
इनपुटः 61 2 14.	: 89 who root 19 46 near drink link gold 3 under 71 97 दिये गए आउटपुट के लिए चरण संख्या ज्ञात करें।	(1) K1 (2) 11 (3) to (4) fa (5) इनमें से कोई नहीं		
इनपुटः 61 2 14.	: 89 who root 19 46 near drink link gold 3 under 71 97 दिये गए आउटपुट के लिए चरण संख्या ज्ञात करें। 46 23 19 89 who root near 61 under 97	(1) K1 (2) 11 (3) to (4) fa (5) इनमें से कोई नहीं 22. निम्नलिखित में से कौन 'insights always better' को		
इनपुटः 61 2 14.	: 89 who root 19 46 near drink link gold 3 under 71 97 दिये गए आउटपुट के लिए चरण संख्या ज्ञात करें। 46 23 19 89 who root near 61 under 97 71 gold drink link	(1) K1 (2) 11 (3) to (4) fa (5) इनमें से कोई नहीं 22. निम्नलिखित में से कौन 'insights always better' को दर्शाता है ?		
इनपुटः 61 2 14.	89 who root 19 46 near drink link gold 3 under 71 97 दिये गए आउटपुट के लिए चरण संख्या ज्ञात करें। 46 23 19 89 who root near 61 under 97 71 gold drink link (1) चरण V (2) चरण VI	 (1) K1 (2) 11 (3) to (4) fa (5) इनमें से कोई नहीं 22. निम्नलिखित में से कौन 'insights always better' को दर्शाता है ? (1) jo ki to (2) ki to ri 		
इनपुटः 61 2 14.	: 89 who root 19 46 near drink link gold 3 under 71 97 दिये गए आउटपुट के लिए चरण संख्या ज्ञात करें। 46 23 46 23 19 89 who root near 61 under 97 71 gold drink link (1) चरण V (2) चरण VI (3) चरण IV (4) चरण III	 (1) K1 (2) 11 (3) to (4) fa (5) इनमें से कोई नहीं 22. निम्नलिखित में से कौन 'insights always better' को दर्शाता है ? (1) jo ki to (2) ki to ri (3) sha jo ri (4) to sha jo 		

- 10. On which day of the week did Sourav visit Delhi?
 - Sourav visited Delhi after Monday but T before Thursday but not on an odd day of the week.
 - II. Sourav visited Delhi before Friday but after Monday.
- 11. What is R's position from the left end in a row?
 - I. M is tenth from the left end of the row.
 - II. There are sixteen children between M and R.
- 12. On which day was Yasir born ? (His date of birth is February 29.)
 - I. He was born between year 2005 and 2011.
 - II. He will complete 4 years on February 29,2012.
- 13. Out of 64 students, 38 play both chess and cricket. How many students play only chess ?
 - Out of 64 students, 22 students don't I. play any game. 4 students play only cricket.
 - II. Out of 64 students, 20 are girls and 10 of them don't play any game.

Directions (14-18) : Study the following information carefully and answer the given questions: The following is an illustration of input and rearrangement.

(All the numbers are two digits numbers) Input : talk 61 26 mold boom 88 81 47 work known ink 36 69 cold

- 26 talk 61 mold 88 81 47 work Step I: known ink 36 69 cold boom
- Step II: 36 26 talk 61 mold 88 81 47 work known ink 69 boom cold
- **Step III:** 47 36 26 talk 61 mold 88 81 work known 69 boom cold ink
- **Step IV:** 61 47 36 26 talk mold 88 81 work 69 boom cold ink known
- 69 61 47 36 26 talk 88 81 work boom Step V : cold ink known mold
- **Step VI:** 1 69 61 47 36 26 88 work boom cold ink known mold talk
- **Step VII :** 88 81 69 61 47 36 26 boom cold ink known mold talk work

Step **VII** is the last slep of the above input, as the desired arrangement is obtained. Answer the following quetions based on given arrangement. Input: 89 who root 19 46 near drink link gold 61 23 under 71 97 14. Which step number is the following output?

- 46 23 19 89 who root near 61 under 97 71 gold drink link
 - (1) Step V (2) Step VI
 - (3) Step IV (4) Step III
 - (5) There is no such step

- Which word/number would be at 5th position 15. from the right in Step V?
 - (2) 97 (1) 19
 - (3) gold (4) drink
 - (5) None of these
- How many elements (words or numbers) are 16. there between 'gold' and '46' as they appear in the last step of the output?
 - (1) One (2) Three
 - (3) Four (4) Five
 - (5) None of these
- Which of the following represents the 17. position of **'who**' in the fourth step?
 - (1) Eighth from the left
 - (2) Fifth from the right
 - (3) Sixth from the left
 - (4) Fifth from the left
 - (5) None of these
- 18. Which of the following would be step **IV**?
 - (1) 19 89 who root 46 near link gold 61 23 under 71 97 drink
 - (2) 71 61 46 23 19 89 who under 97 drink gold link near root
 - (3) 61 46 23 19 89 who root under 71 97 drink gold link near
 - (4) 97 89 71 61 46 23 19 drink gold link near root under who
 - (5) None of these

Directions (19-22) : Study the following information to answer the given questions:

In a certain code, 'always create new ideas' is written as 'ba ri sha gi', 'ideas and new thoughts' is written as 'fa gi ma ri', 'create thoughts and insights' is written as 'ma jo ba fa', and 'new and better solutions' is written as 'ki ri to fa'.

- 19. What does 'fa' stand for ?
 - (1) thoughts (2) insights
 - (3) new (4) and
 - (5) None of these
- 20. 'fa lo ba' could be a code for which of the following?
 - (1) thoughts and action
 - (2) create and innovate
 - (3) ideas and thoughts
 - (4) create new solutions
 - (5) None of these
- What is the code for 'new'? 21.
 - (1) ki (2) ri
 - (3) to (4) fa
- 22. Which of the following may represent 'insights always better' ?
 - (2) ki to ri (1) jo ki to
 - (4) to sha jo
 - (5) None of these
- (3) sha jo ri

- - (5) None of these

निर्देश (23 – 25) : नीचे प्रत्येक प्रश्न में I और II दो कथन दिए गए हैं। ये कथन या तो स्वतंत्र कारण हो सकते हैं या स्वतंत्र कारणों के या एक सामान्य कारण के परिणाम हो सकते हैं। इनमें से एक कथन दूसरे कथन का परिणाम हो सकता है। दोनों कथनों को पढ़िए और तय कीजिए कि निम्नलिखित में से किस उत्तर का चुनाव इन दोनों कथनों के बीच सही संबंध बताता है।

- (1) यदि कथन I कारण है और कथन II उसका परिणाम है।
- (2) यदि कथन II कारण है और कथन I उसका परिणाम है।
- (3) यदि कथन I और II दोनों कथन स्वतंत्र कारण हैं।
- (4) यदि कथन I और II दोनों कथन स्वतंत्र कारणों के परिणाम हैं।
- (5) यदि कथन I और II दोनों कथन किसी समान कारण के परिणाम हैं।

23. कथन:

- विश्व विद्यालय ने अपने अधिकार क्षेत्र में आने वाले सभी कॉलेजों को उनके परिसर में मोबाइल फोन के प्रयोग को प्रतिबंधित करने का निर्देश दिया है।
- II. कॉलेज के अधिकाश शिक्षकों ने विघ्न की शिकायत के लिए एक संयुक्त याचिका पर हस्ताक्षर किया है।
- 24. कथन:
 - देश में इस्पात उत्पादक कंपनियों में से अधिकांश ने पिछले वित्त वर्ष के दौरान काफी लाभ कमाया है।
 - II. कई एशियाई देश भारत से इस्पात की भारी मांत्रा का आयात करते रहे है।
- 25. कथन :
 - सरकार ने सहायता रहित संस्थानों द्वारा उपलब्ध की गई व्यवसायिक पाठक्रमों की शुल्क तय की है, जो पिछले वर्ष की देय राशि से काफी कम है।
 - इच्छुक छात्रों के माता-पिता ने पिछले वर्ष सहायता रहित संस्थानों द्वारा ली गई भारी शुल्क के विरोध में एक बड़ा प्रचण्ड आंदोलन किया था।

निर्देश (26-30) : दिए गए सूचना को सावधानीपूर्वक पढ़ें एवं नीचे प्रश्नों के उत्तर दें।

होटल हिल्टन में 12 व्यक्तियों- A, B, C, D, E, F, P, Q, R, S, T एवं U के रहने के लिए छ: कमरे है। उपलब्ध कमरे संख्या है-11, 22, 33, 44, 55 एवं 66। होटल के प्रत्येक कमरे अलग-अलग रंगों जैसे नीला, हरा, पीला, काला, गुलाबी एवं सफेद रंग के है। प्रत्येक कमरे में दो व्यक्तियों के रहने की जगह है। समुह में केवल A, B, Q, R, T एवं U पुरुष है। महिलाओं की कमरा-संख्या विषम है जबकि पुरुषों का कमरा-संख्या सम है।

- I. A एवं B एक ही कमरे में रहते है। C का कमरे का साथी D नहीं है।
- II. E कमरा-संख्या 66, जो पीले रंग का रंग है, में नहीं है। ना तो कमरा-संख्या 55 और ना ही कमरा-संख्या 44 नीला अथवा काला है।
- III. गुलाबी रंग वाला कमरा विषम-संख्या वाला है किन्तु यह कमरा-संख्या 33 नहीं है। F कमरा-संख्या 55 में D के साथ है।
- IV. P का कमरा साथी S नहीं है। नीला रंग वाला कमरा सम संख्या का है।
- V. R हरे रंग वाले कमरे में है जबकि D सफेद रंग वाले कमरे में है।
- VI. S कमरा-संख्या 33 में नहीं है। T नीले रंग वाले कमरे में है।
- निम्नलिखित में से किस का आवास गुलाबी रंग वाले कमरे में है ?
 - (1) E और S (2) C और S
 - (3) P और C (4) डाटा अपर्याप्त है
 - (5) इनमें से कोई नहीं
- 27. निम्नलिखित में से किसका आवास कमरा-संख्या 33 में है ?
 - (1) P और C (2) P और E
 - (4) C और E (4) डाटा अपर्याप्त है
 - (5) इनमें से कोई नहीं
- 28. इनमें से किसमें A एवं B रहते है ?
 - (1) 22 (2) 44
 - (3) 66 (4) डाटा अपर्याप्त है
 - (5) इनमें से कोई नहीं
- 29. निम्नलिखित में से कौन-सा कथन सत्य है ?

I. U, T का साथी है। II. Q, D का साथी है।

- III. R, Q का साथी है। IV. U, R का साथी है।
- (1) केवल I (2) केवल II
- (3) केवल III (4) I एवं II दोनों
- (5) कोई नहीं

Directions (23 - 25) : In each of the following questions, two statements numbered I and II are given. These may to cause and effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements maybe independent causes without having any relationship. Read both the statements in each question and mark your answer as:

- (1) If statement I is the cause and II is its effect.
- (2) If statement II is the cause and I is its effect.
- (3) If both the statements I and II are independent causes.
- (4) If both the statements I and II are effects of independent causes.
- (5) If both the statements I and II are effects of some common cause.
- 23. Statements :
 - I. The university has instructed all the colleges under its jurisdiction to ban use of mobile phones inside the college premises.
 - II. Majority of the teachers of the colleges signed a joint petition to the university complaining the disturbances.

24. Statements :

- I. Most of the steel producing companies in the country have made considerable profit during the last financial year.
- II. Many Asian countries have been importing huge quantities of steel from India.

25. Statements :

- I. The government has recently fixed the fees for professional courses offered by the unaided institutions which are much lower than the fees charged last year.
- II. The parents of the aspiring students launched a severe agitation last year protesting against the high fees charged by the unaided institutions.

Directions (26-30) : Study the following information carefully and answer the questions given below.

Hotel Hilton accommodates twelve persons in six rooms. The persons are A, B, C, D, E, F, P, Q, R, S, T and U. The room numbers are 11, 22, 33, 44, 55 and 66. Each room of the guest house is coloured with different colours. Those colours are blue, green, yellow, black, pink and white. Each room accommodates two persons.

A, B, Q, R, T and U are the only males in the group. Female's rooms are odd - numbered whereas male's rooms are even-numbered.

- I. A and B share room. C's roommate is not D.
- II. E does not live in room no.66, which is yellow. Neither room no.55 nor room no.44 is blue or black.
- III. The pink room is an odd number but it is not room no.33. F lives in room 55 with D
- IV. P's roommate is not S. The blue room is even numbered.
- V. R lives in the green room whereas D lives in the white room.
- VI. S does not live in room no. 33. T's room is blue.

26. Who among the following are accommodated in the pink-coloured room ?

- (1) E and S (2) C and S
- (3) P and C (4) Data inadequate
- (5) None of these

27. Who among the following are accommodated in room no. 33 ?

- (1) P and C (2) P and E
- (4) C and E (4) Data inadequate
- (5) None of these
- 28. In which A and B are accommodated ?
 - (1) 22 (2) 44
 - (3) 66 (4) Data inadequate
 - (5) None of these

29. Which of the following statements are definitely true ?

- I. U is the partner of T
- II. Q is the partner of D
- III. R is the partner of Q
- IV. U is the partner of R
- (1) Only I (2) Only II
 - (3) Only III (4) Both I and II
 - (5) None

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निम्नलिखित में से कौन सा कथन असत्य है ?
30.
      (A) A एवं B पीले वाले कमरे में रहते है।
      (B) Q या तो नीले रंग वाले कमरे में अथवा हरे रंग वाले कमरे
           में रहता है।
      (C) C या तो गुलाबी रंग वाले कमरे में अथवा काले रंग वाले
           कमरे में रहता है।
      (D) U कमरा-संख्या 22 में रहता है।
      (1) काई नहीं
                                (2) केवल D
      (3) केवल A और D
                                (4) केवल B और D
      (5) सभी सत्य है।
निर्देश (31–35) : दिये गए प्रत्येक प्रश्न में दो ⁄तीन कथन एवं दो
निष्कर्ष I एवं II निहित है। आपको इन कथनों को सत्य मानना है,
भले ही वो सर्वज्ञात तथ्यों से भिन्न प्रतीत होते है। सभी निष्कर्षों
को पढ़े फिर तय करें कि सभी कथनों को निम्नलिखित कौन से
निष्कर्ष तार्किक रूप से अनुसरण करते है।
  (1) यदि केवल निष्कर्ष I अनुसरण करता है।
  (2) यदि केवल निष्कर्ष II अनुसरण करता है।
  (3) यदि या तो निष्कर्ष I या II अनुसरण करता है।
  (4) यदि न तो निष्कर्ष I और न ही II अनुसरण करता है।
  (5) यदि निष्कर्ष I और II दोनों अनुसरण करते हैं।
      कथन :
31.
      कुछ परीक्षा जाँच है।
      कोई परीक्षा प्रश्न नहीं है।
      निष्कर्ष:

    कोई प्रश्न जाँच नहीं है।

      II. कुछ जाँच निश्चित रूप से परीक्षा नहीं है।
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32.
      कथन :
       सभी बल ऊर्जा है।
       सभी ऊर्जा शक्ति है।
       कोई शक्ति ऊष्मा नहीं है।
       निष्कर्ष:

    कोई ऊर्जा ऊष्मा नहीं है।

       II. कुछ बलों के ऊष्मा होने की संभावना है।
33
      कथन:
       कोई नोट सिक्का नहीं है।
       कुछ सिक्के धातु है।
       सभी पलास्टिक नोट है।
       निष्कर्षः
       I. कोई सिक्का प्लास्टिक नहीं है।
       II. सभी प्लास्टिकों के धातु होने संभावना है।
34.
      कथन :
       कुछ संकेत आँकड़े है।
       सभी संकेत आरेख है।
       कोई आरेख चित्र नहीं है।
       निष्कर्ष:
       I. कुछ आरेख आँकड़े है।
       II. कोई संकेत चित्र नहीं है।
35.
      कथन :
       सभी रिक्तियां नौकरी है।
       कुछ नौकरी पेशा है।
       निष्कर्ष :
           सभी रिक्तियां पेशा है।
       T
       II. सभी पेशों के रिक्तियां होने की संभावना है।
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- 30. Which of the following statements is/are definitely false?
 - (A) A and B are accommodated in the yellow room
 - (B) Q is accommodated either in the blue room or in the green room
 - (C) C is accommodated either in the Pink room or in the black room
 - (D) U is accommodated in room no. 22
 - (1) None (2) Only D
 - (3) Only A and D (4) Only B and D
 - (5) All are true

Directions (31–35): In each group of questions below are two/three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the two/ three statements disregarding commonly known facts give answer.

- (1) If only conclusion I follows.
- (2) If only conclusion II follows.
- (3) If either conclusion I or conclusion II follows
- (4) If neither conclusion I nor conclusion II follows.
- (5) If both conclusions I and II follow.

31. Statements :

Some exams are tests.

No exam is a question.

Conclusions :

- I. No questions is a test.
- II. Some tests are definitely not exams.

32. Statements :

- All forces are energies.
- All energies are powers.
- No power is heat.

Conclusions :

- I. No energy is heat.
- II. Some forces being heat is a possibility.

33 Statements :

No note is a coin.

Some coins are metals.

All plastics are notes.

Conclusions :

- I. No coin is plastic.
- II. All plastics being metals is a possibility.

34. Statements :

Some symbols are figures.

All symbols are graphics.

No graphic is a picture.

Conclusions :

- I. Some graphics are figures.
- II. No symbol is a picture.

35. Statements :

All vacancies are jobs.

Some jobs are occupations.

Conclusions :

- I. All vacancies are occupations.
- II. All occupations being vacancies is a possibility.

संख्यात्मक अभियोग्यता

निर्देश (36-40) : निम्नलिखित प्रश्नों में प्रश्न-चिन्ह (?) के | 47. स्थान पर आने वाले संख्याओं का मान बताएं- $18.5 \times 21.4 \times ? = 6255.22$ 36. (1) 15.8 (2) 14.6 (3) 17.4 (4) 17.2 (5) इनमें से कोई नहीं $1.5 \times 78 \div 0.5 = ?$ 37. (1) 238 (2) 234 (3) 243 (4) 216 (5) इनमें से कोई नहीं 302.46 + 395.72 - 123.47 = ?38. (2) 547.17 (1) 576.77 (3) 547.77 (4) 574.71 (5) इनमें से कोई नहीं 39. $\sqrt[3]{4096}$, $\sqrt[3]{64} = \sqrt[3]{?}$ (1) 16 (2) 8 (4) 4 (3) 64 (5) इनमें से कोई नहीं 40. 800 an ? % = 293 - 750 an 22% (1) 14 (2) 18 (3) 12 (4) 16 (5) इनमें से कोई नहीं निर्देश (41–45) : नीचे दिए गए प्रत्येक प्रश्न में एक संख्या श्रृंखला दी गई है, जिसमें एक संख्या गलत है। गलत संख्या ज्ञात करें। 41. 2 11 38 197 1172 8227 65806 (1) 11 (2) 38 (3) 197 (4) 1172 (5) इनमें से कोई नहीं 42. 16 19 21 30 46 71 107 (1) 19 (2) 21 (3) 30 (4) 46 (5) इनमें से कोई नहीं 43. 7 9 16 25 41 68 107 173 (1) 107 (2) 16 (3) 41 (4) 68 (5) इनमें से कोई नहीं 44. 4 2 3.5 7.5 26.25 118.125 (1) 118.125 (2) 26.25 (4) 2 (3) 3.5 (5) इनमें से कोई नहीं 16 4 2 1.5 1.75 1.875 45. (1) 1.875 (2) 1.75 (3) 1.5 (4) 2 (5) इनमें से कोई नहीं पत्थर के एक टुकडें की कीमत उसके भार के वर्ग के अनुसार 46. बदलती है। एक पत्थर जिसकी कीमत ₹ 5,184 है, को 3 टुकडों, जिनके भार का अनुपात 1 : 2 : 3 है, में काटा गया। पत्थर को काटने में हुई हानि ज्ञात करें ? (1) ₹3,068 (2) ₹3,088 (3) ₹3,175 (4) ₹3,168 (5) इनमें से कोई नहीं

पाइप A अकेला एक टंकी को 3 घंटे में भरता है। पाइप B अकेला 8 घंटे में भरता है। यदि दोनों पाइपों को एक साथ खोला जाए तथा 2 घंटे बाद पाइप A को बंद कर दिया जाए, तो दुसरा पाइप टैंक को कितने समय में भर पाएगा ? (1) 6 घंटे (2) 3.5 ਬਂਟੇ (3) 4 ਬਂਟੇ (4) 2.5 ਬਂਟੇ (5) इनमें से कोई नहीं यदि ₹ 5,000, 1 वर्ष में ₹ 5,700 हो जाता है, तो साधारण 48. ब्याज की समान दर पर ₹ 7,000, 5 वर्षों में कितने होगा ? (1) ₹ 10,500 (2) ₹11,900 (3) ₹12,700 (4) ₹7,700 (5) इनमें से कोई नहीं दो अर्धगोलाकार बर्तनों की क्षमता 6.4 लीटर तथा 21.6 लीटर 49. है। उनके अंत: त्रिज्या का अनुपात ज्ञात करें ? (1) 4:9(2) 16:81 (4) 2:3(3) $\sqrt{2}$: $\sqrt{3}$ (5) इनमें से कोई नहीं पाँच वर्ष पहले चार लड़कों की औसत आयु 9 वर्ष थी। एक 50. नये लडकें को शामिल करनें पर पाँचों की वर्तमान औसत आयु 15 वर्ष है। नयें लडकें की वर्तमान आयु कितनी है ? (1) 14 वर्ष (2) 6 वर्ष (3) 15 av (4) 19 a[§] (5) इनमें से कोई नहीं निर्देश (51-55) : निम्नलिखित प्रश्नों में प्रश्न-चिन्ह (?) के स्थान पर आने वाले संख्याओं का निकटतम मान बताएं (वास्तविक मान की गणना करना आवश्यक नहीं है)। 150, 199, 16 = 251. 17 13 91 (2) 700 (1) 650 (3) 770 (4) 820 (5) 850 151.011 - 419.999 + 649.991= ? 52. (2) 420 (1) 380 (3) 350 (4) 410 (5) 360 $1299 \div 19.99 \times 25.01 + 400.01 = ?$ 53. (1) 2025 (2) 2300 (3) 1925 (4) 2200 (5) 1700 54. 499 an 30.06% + 799 an 39.99% = ? (1) 420 (2) 380 (3) 440 (4) 470 (5) 510 $(14.99)^2 - (7.01)^2 + (4.99)^3 = ?$ 55. (1) 250 (2) 200 (4) 300 (3) 150 (5) 350

QUANTITATIVE APTITUDE

Directions (36-40): What should come in 14place of the question mark (?) in the following questions ? 36. 18.5 × 21.4 × ? = 6255.22 (1) 15.8 (2) 14.6 (3) 17.4 (4) 17.2 (5) None of these 37. $1.5 \times 78 \div 0.5 = ?$ (1) 238 (2) 234 (3) 243 (4) 216 (5) None of these 38. 302.46 + 395.72 - 123.47 = ?(1) 576.77 (2) 547.17 (3) 547.77 (4) 574.71 (5) None of these 39. $\sqrt[3]{4096}$, $\sqrt[3]{64} = \sqrt[3]{?}$ (1) 16 (2) 8 (3) 64 (4) 4 (5) None of these ? % of 800 = 293 – 22% of 750 40. (1) 14 (2) 18 (3) 12 (4) 16 (5) None of these Directions (41-45) : In each question below, a number series is given in which one number is wrong. Find out the wrong number. 41. 2 11 38 197 1172 8227 65806 (1) 11 (2) 38 (3) 197 (4) 1172(5) None of these 42. 16 19 21 30 46 71 107 (1) 19 (2) 21 (3) 30 (4) 46 (5) None of these 43. 7 9 16 25 41 68 107 173 (1) 107 (2) 16 (3) 41 (4) 68 (5) None of these 44. 4 2 3.5 7.5 26.25 118.125 (1) 118.125 (2) 26.25 (3) 3.5 (4) 2 (5) None of these 16 4 2 1.5 1.75 1.875 45. (1) 1.875 (2) 1.75 (3) 1.5 (4) 2 (5) None of these 46. The cost of a piece of stone varies with the square of its weight. A stone of ₹ 5,184 value is cut into 3 pieces whose weights are in the ratio 1:2:3. Find the loss involved in the cutting ? (1) ₹3,068 (2) ₹3,088 (3) ₹ 3,175 (4) ₹ 3,168 (5) None of these

47.	Pipe A alone can fill a tank in 8 hours. Pipe B alone can fill it in 6 hours. If both the pipes are opened and after 2 hours pipe A				
	is closed, then the	and alter 2 hours pipe in the other pipe will fill the			
	(1) 6 hours	(2) 3.5 hours			
	(3) 4 hours	(4) 2.5 hours			
	(5) None of these	()			
48.	If ₹ 5,000 becomes	s₹5,700 in a year's time,			
	what will ₹ 7,000	become at the end of 5			
	years at the same	a rate of simple interest ?			
	(1) ₹ 10,500	(2) ₹ 11,900			
	(3) ₹ 12,700	(4) ₹7,700			
	(5) None of these				
49.	The capacities of t	wo hemispherical vessels			
	are 6.4 litres and	21.6 litres. The ratio of			
	their inner radii i (1)	S = (0) 16 + 91			
	(1) 4:9	(2) 10:81			
	(3) $\sqrt{2} : \sqrt{3}$	(4) 2:3			
	(5) None of these				
50.	The average age of	f four boys, five years ago			
	was 9 years. On	including a new boy, the			
	present average	age of all the five is 15			
	years. The present (1) 14 years	(2) 6 years			
	$\begin{array}{c} (1) 1 \neq y \in ars \\ (3) 1 \leq y \in ars \end{array}$	(2) 0 years (4) 19 years			
	(5) None of these	(+) 19 years			
Dire	ctions (51-55) : W	/hat approximate value			
Direo shou	ctions (51–55) : W ld come in place	/hat approximate value of question mark (?) in			
Dired shou the f	ctions (51–55) : W ld come in place following questio	/hat approximate value of question mark (?) in n ? (Note: You are not			
Dired shou the f expe	ctions (51–55) : W ld come in place following questio cted to calculate	/hat approximate value of question mark (?) in n ? (Note: You are not the exact value)			
Dired shou the f expe	ctions $(51-55)$: W Id come in place following questio cted to calculate 150, 199, 16-2	/hat approximate value of question mark (?) in n ? (Note: You are not the exact value)			
Direc shou the f expe 51.	ctions (51–55) : We ld come in place following question cted to calculate $\frac{150}{17}$, $\frac{199}{13}$, $\frac{16}{91}$ = ?	/hat approximate value of question mark (?) in n ? (Note: You are not the exact value)			
Direc shou the f expe 51.	(c) ons (51-55) : We ld come in place following question of the calculate $\frac{150}{17}$, $\frac{199}{13}$, $\frac{16}{91}$ = ? (1) 650	<pre>/hat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700</pre>			
Direc shou the f expe 51.	(c) ons (51-55) : We ld come in place following question cted to calculate $\frac{150}{17} \cdot \frac{199}{13}$, $\frac{16}{91} = ?$ (1) 650 (3) 770	<pre>/hat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820</pre>			
Direc shou the f expe 51.	(c) ons $(51-55)$: We set the set of the se	Vhat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820			
Direc shou the f expe 51.	ctions (51-55) : W ld come in place following question cted to calculate $\frac{150}{17}$, $\frac{199}{13}$, $\frac{16}{91}$ = ? (1) 650 (3) 770 (5) 850 151.011 - 419.999	<pre>/hat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 0+649.991=?</pre>			
Direc shou the f expe 51.	(c) ons $(51-55)$: We have a state of the second state of the se	Vhat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 0 + 649.991= ? (2) 420			
Direction shout the flexpe 51.	(c) $(51-55) : W$ (c) $(51-55) : W$ (c) $(51-55) : W$ (c) $(50 + 100) = 100$ (c) $(50 + 100) = 10$	Vhat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 0 + 649.991= ? (2) 420 (4) 410			
Direction shout the flexpe 51.	(c) 350 (51-55) : W Id come in place following question cted to calculate $\frac{150}{17}$, $\frac{199}{13}$, $\frac{16}{91}$ = ? (1) 650 (3) 770 (5) 850 151.011 - 419.999 (1) 380 (3) 350 (5) 360	7 hat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 9 + 649.991= ? (2) 420 (4) 410			
Direction Shout the flexpe 51. 52. 53.	ctions (51-55) : W ld come in place following question cted to calculate $\frac{150}{17}$, $\frac{199}{13}$, $\frac{16}{91}$ = ? (1) 650 (3) 770 (5) 850 151.011 - 419.999 (1) 380 (3) 350 (5) 360 1299 ÷ 19.99 × 25	That approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 (4) 820 (4) 420 (4) 410 .01 + 400.01 = ?			
Dired shou the f expe 51. 52. 53.	ctions (51-55) : W ld come in place following question cted to calculate $\frac{150}{17}$, $\frac{199}{13}$, $\frac{16}{91}$ = ? (1) 650 (3) 770 (5) 850 151.011 - 419.999 (1) 380 (3) 350 (5) 360 1299 ÷ 19.99 × 25 (1) 2025	<pre>/hat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 0+649.991= ? (2) 420 (4) 410 .01 + 400.01 = ? (2) 2300</pre>			
Direction shout the figure of	(c) 350 (51-55) : W Id come in place following question cted to calculate $\frac{150}{17}$, $\frac{199}{13}$, $\frac{16}{91}$ = ? (1) 650 (3) 770 (5) 850 151.011 - 419.999 (1) 380 (3) 350 (5) 360 1299 ÷ 19.99 × 25 (1) 2025 (3) 1925	<pre>/hat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 0+649.991= ? (2) 420 (4) 410 .01 + 400.01 = ? (2) 2300 (4) 2200</pre>			
Direction shout the flexpe 51. 52. 53.	(c) 360 (51-55) : W Id come in place following question cted to calculate $\frac{150}{17} \cdot \frac{199}{13}, \frac{16}{91} = ?$ (1) 650 (3) 770 (5) 850 151.011 - 419.999 (1) 380 (3) 350 (5) 360 1299 ÷ 19.99 × 25 (1) 2025 (3) 1925 (5) 1700	<pre>/hat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 0+649.991= ? (2) 420 (4) 410 .01 + 400.01 = ? (2) 2300 (4) 2200</pre>			
Dired shou the f expe 51. 52. 53.	ctions (51-55) : W ld come in place following question cted to calculate $\frac{150}{17}$, $\frac{199}{13}$, $\frac{16}{91}$ = ? (1) 650 (3) 770 (5) 850 151.011 - 419.999 (1) 380 (3) 350 (5) 360 1299 ÷ 19.99 × 25 (1) 2025 (3) 1925 (5) 1700 30.06% of 499 + 3	<pre>/hat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 0 + 649.991= ? (2) 420 (4) 410 .01 + 400.01 = ? (2) 2300 (4) 2200 9.99% of 799 = ?</pre>			
Dired shou the f expe 51. 52. 53. 54.	ctions (51-55) : W ld come in place following question cted to calculate $\frac{150}{17}$, $\frac{199}{13}$, $\frac{16}{91}$ = ? (1) 650 (3) 770 (5) 850 151.011 - 419.999 (1) 380 (3) 350 (5) 360 1299 ÷ 19.99 × 25 (1) 2025 (3) 1925 (5) 1700 30.06% of 499 + 3 (1) 420	<pre>/hat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 0 + 649.991= ? (2) 420 (4) 410 .01 + 400.01 = ? (2) 2300 (4) 2200 9.99% of 799 = ? (2) 380</pre>			
Dired shou the f expe 51. 52. 53. 54.	ctions (51–55) : W ld come in place following question cted to calculate $\frac{150}{17} \cdot \frac{199}{13}, \frac{16}{91} = ?$ (1) 650 (3) 770 (5) 850 151.011 - 419.999 (1) 380 (3) 350 (5) 360 1299 ÷ 19.99 × 25 (1) 2025 (3) 1925 (5) 1700 30.06% of 499 + 3 (1) 420 (3) 440	<pre>/hat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 0 + 649.991= ? (2) 420 (4) 410 .01 + 400.01 = ? (2) 2300 (4) 2200 9.99% of 799 = ? (2) 380 (4) 470</pre>			
Dired shou the f expe 51. 52. 53. 54.	ctions (51–55) : W ld come in place following questio cted to calculate $\frac{150}{17}$, $\frac{199}{13}$, $\frac{16}{91}$ = ? (1) 650 (3) 770 (5) 850 151.011 – 419.999 (1) 380 (3) 350 (5) 360 1299 ÷ 19.99 × 25 (1) 2025 (3) 1925 (5) 1700 30.06% of 499 + 3 (1) 420 (3) 440 (5) 510	<pre>/hat approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 0+649.991= ? (2) 420 (4) 410 .01 + 400.01 = ? (2) 2300 (4) 2200 9.99% of 799 = ? (2) 380 (4) 470</pre>			
Dired shou the f expe 51. 52. 53. 54. 55.	ctions (51-55) : W ld come in place following question cted to calculate $\frac{150}{17} \cdot \frac{199}{13}, \frac{16}{91} = ?$ (1) 650 (3) 770 (5) 850 151.011 - 419.999 (1) 380 (3) 350 (5) 360 1299 ÷ 19.99 × 25 (1) 2025 (3) 1925 (5) 1700 30.06% of 499 + 3 (1) 420 (3) 440 (5) 510 (14.99) ² - (7.01) ² +	That approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 (4) 820 (4) 820 (4) 420 (4) 410 .01 + 400.01 = ? (2) 2300 (4) 2200 (4) 2200 (9.99% of 799 = ? (2) 380 (4) 470 (4.99) ³ = ?			
Direc shou the f expe 51. 52. 53. 54. 55.	ctions (51-55) : W ld come in place following question cted to calculate $\frac{150}{17}$, $\frac{199}{13}$, $\frac{16}{91}$ = ? (1) 650 (3) 770 (5) 850 151.011 - 419.999 (1) 380 (3) 350 (5) 360 1299 ÷ 19.99 × 25 (1) 2025 (3) 1925 (5) 1700 30.06% of 499 + 3 (1) 420 (3) 440 (5) 510 (14.99) ² - (7.01) ² + (1) 250	That approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 9 + 649.991 = ? (2) 420 (4) 410 .01 + 400.01 = ? (2) 2300 (4) 2200 9.99% of 799 = ? (2) 380 (4) 470 $(4.99)^3 = ?$ (2) 200			
Direc shou the f expe 51. 52. 53. 54. 55.	(c) $1, 1, 2, 5$ (c) $1, 1, 5$ (c	That approximate value of question mark (?) in n ? (Note: You are not the exact value) (2) 700 (4) 820 (4) 820 (4) 420 (4) 410 .01 + 400.01 = ? (2) 2300 (4) 2200 (4) 2200 (4) 2200 (4) 470 (4) 470 (4) 300			

निर्देश (56–60): निम्नलिखित प्रश्नों में दो समीकरण I एवं II दिये गए है। आपको दोनों समीकरणों को हल करना है एवं अपना सही उत्तर तय करना है। उत्तर दें: 1. यदि x > y 2. यदि x ≥ y 3. यदि x < y 4. यदि x ≤ y 5. यदि x = y या संबंध स्थापित नहीं किया जा सकता।	निर्देश (66-70) : नीचे दिए पाई-चार्ट का ध्यानपूर्वक अध्ययन करें तथा दिए गए प्रश्नों के उत्तर दें- पाँच विभिन्न गाँवों में बच्चों की संख्या तथा इन्ही गांवों से विद्यालय जाने वाले छात्रों की संख्या का प्रतिशत विवरण बच्चों की कुल संख्या = 2040
56. I. $x^2 + 5x + 6 = 0$ II. $y^2 + 7y + 12 = 0$ 57. I. $x^2 + 20 = 9x$ II. $y^2 + 42 = 13y$ 58. I. $2x + 3y = 14$ II. $4x + 2y = 16$ 59. I. $x = \sqrt{625}$ II. $y = \sqrt{676}$ 60. I. $x^2 + 4x + 4 = 0$ II. $y^2 - 8y + 16 = 0$ Frais (61-65): Frais and Constants Transform (61-65): Transform (61-65)	$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 30\% & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0$
ालए पयाप्त ह, जबाक कवल कथन II में दिये गय आकड़ प्रश्न का उत्तर देने के लिए पर्याप्त नहीं है। (2) यदि केवल कथन II में दिये गये आंकड़े प्रश्न का उत्तर देने के लिए पर्याप्त है, जबकि केवल कथन I में दिये गये आंकड़े प्रश्न का उत्तर देने के लिए पर्याप्त नहीं है।	00000 M 32% 20% N 12%
 (3) यदि या तो केवल कथन I या केवल कथन II में दिये गये आंकड़े प्रश्न का उत्तर देने के लिए पर्याप्त है। (4) यदि कथन I और कथन II दोनों को आंकड़े मिलाकर भी प्रश्न का उत्तर देने के लिए पर्याप्त नहीं है। (5) यदि कथन I और कथन II दोनों को आंकड़े मिलकर प्रश्न का 	 66. गाँव O के बच्चों की कुल संख्या एवं उसी गाँव से विद्यालय जाने वाले बच्चों की कुल संख्या का परस्पर अनुपात ज्ञात करें ? (1) 204 : 145 (2) 179 : 131 (3) 167 : 111 (4) 266 : 137 (5) इनमें से कोई नहीं 67 गाँव N के विद्यालय जाने वाले छात्रों की संख्या गाँव M तथा
उत्तर देने के लिए आवश्यक है। 61. पाँच महिलाएं एक काम को कितने दिनों में पूरा करेंगी ? I. दो महिलाएं, पाँच लड़के एवं तीन पुरुष एक साथ मिलकर उस काम को छ: दिन में पूरा करते है। II. आठ महिलाएं उसी काम को बारह दिन में पूरा करती है।	N दोनों में मिलाकर बच्चों की कुल संख्या का लगभग कितना प्रतिशत है ? (1) 55% (2) 14% (3) 33% (4) 42% (5) 24%
62. छः वर्ष पश्चात् श्याम की आयु कितनी होगी ? I. राम तथा श्याम की वर्तमान आयु का अनुपात 4 : 3 है। II. राम श्याम से सात वर्ष बड़ा है। 63. एक कार की औसत चाल क्या है ?	 68. गाँव M तथा N से विद्यालय न जाने वाले छात्रों की कुल संख्या ज्ञात करें ? (1) 69 (2) 56 (3) 76 (4) 63
 I. कार की औसत चाल ट्रक की औसत चाल के पाँच गुना है, जबकि बस की औसत चाल 45 किमी/घं. है। II. ट्रक की औसत चाल, ट्रेन की औसत चाल की आधी है, जबकि बस की औसत चाल 45 किमी/घं. है। 	 (5) इनमें से कोई नहीं 69. गाँव P, M के बच्चों की कुल संख्या तथा गाँव L तथा N के विद्यालय जाने वाले बच्चों की कुल संख्या कितनी होगी ? (1) 1422 (2) 1499 (3) 1100 (4) 1011
 64. ₹ 5,000 की एक राशि पर छ: वर्षों में अर्जित साधारण ब्याज कितना है ? I. पहले तीन वर्षों के लिए साधारण ब्याज की दर 5 प्रतिशत वार्षिक है। II. अगले तीन वर्षों के लिए साधारण ब्याज की दर 8 प्रतिशत वार्षिक है। 	 (3) 1129 (4) 1211 (5) इनमें से कोई नहीं 70. गाँव L से विद्यालय जाने वाले बच्चों की संख्या, उस गाँव के बच्चों की कुल संख्या का लगभग कितना प्रतिशत है ? (1) 78% (2) 72% (3) 57% (4) 66%
65. चार किग्रा. सेब तथा 3 किग्रा. आम का एक साथ कुल मूल्य क्या है। I. 2 किग्रा. सेब का मूल्य ₹ 170 तथा एक किग्रा. आम का मूल्य 50 रु है। II. 5 किग्रा. सेब तथा चार किग्रा. आम का कुल मूल्य ₹ 410 है।	(5) इनमें से कोई नहीं

 Directions (56-60): In the following questions two equations number of and If are given. You have to solve both the equations and give answer. If <i>k x y y 2</i>. If <i>k x y y</i> If <i>k x y y 2</i>. If <i>k x y y</i> If <i>k x y y 2</i>. If <i>k x y y</i> If <i>k x y y 2</i>. If <i>k x y y</i> If <i>k x y y 2</i>. If <i>k x y y</i> If <i>k x y y z</i>. If <i>k x y y</i> If <i>k z y y z</i>. If <i>k x y y</i> If <i>k z y z z y y z z y y z z y</i> If <i>k z z y z z y z z y z z y z z z z z z z z z z</i>	2007, OU S, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009					
 two equations numbered I and II are given. You have to solve both the equations and give answer. I. If X > Y I. Y > Y I. Y	Dire	ctions (56–60) : In the following questions	I. Cost of 2 kgs of apples is ₹ 170 and one			
 have to solve both the equations and give answer. i. If x > y if x > y if x < y	two	equations numbered I and II are given. You	kg of mangoes is ₹ 50.			
 answer. If x> y If the data in statement I alone are sufficient to answer the question. If the data in statement I alone are sufficient to answer the question. If the data in statement I alone are sufficient to answer the question. If the data given in both statements I and II together are not sufficient to answer the question. If the data given in both statements I and II together are necessary to answer the question. If the data given in both statements I and II together are necessary to answer the question. If the data given in both statement I alone are not sufficient to answer the question. If the data given in both statement I alone are not sufficient to answer the question. If the data given in both statement I alone are not sufficient to answer the question. If the data given in both statement I alone are not sufficient to answer the question. If the data given in both statements I and II together are necessary to answer the question. If the rate agiven on hist statement I alone are not sufficient to answer the question. If the rate agiven on hist state is a respective. I. Neverage speed of the truck is half the average speed of a truck whereas the average speed of a truck wher	have	e to solve both the equations and give	II. The total cost of 5 kg of apples and 4 kgs			
 1. If x² y 2. If x≥ y 2. If x≥ y 3. If x≤ y 7. If x≤ y or the relationship cannot be established. 5. If x = y or the relationship cannot be established. 5. I, x² + 20 = 9x 11. y² + 7y + 12 = 0 7. I, x² + 4x + 4 = 0 11. y² + 7y + 12 = 0 8. I ≥ x + 3y = 14 11. 4x + 2y = 16 9. I, x² + 4x + 4 = 0 11. y² + 8y + 16 = 0 1. x² + 4x + 4 = 0 11. y² + 8y + 16 = 0 1. x² + 4x + 4 = 0 11. y² + 8y + 16 = 0 1. rate a ufficient to answer the question while the data in statement I alone are out sufficient to answer the question. (2) If the data in statement I alone are out sufficient to answer the question. (3) If the data in statement I alone are sufficient to answer the question. (4) If the data in both statements I and II together are not sufficient to answer the question. (5) If the data in both statements I and II together are not sufficient to answer the question. (6) If the data in both statements I and II together are not sufficient to answer the question. (7) If the data in both statements I and II together are not sufficient to answer the question. (8) If the data in both statements I and II together are not sufficient to answer the question. (9) If the data in both statements I and II together are not sufficient to answer the question. (9) If the data given in both statements I and II together are not sufficient to answer the question. (9) If the data given answer the question. (9) If the rate age symmed of a truck whereas the average speed o	ansv	ver.	of mangoes is ₹ 410.			
 3. If x < y 4. If x ≤ y 5. If x = y or the relationship cannot be established. 5. I, x = x + 20 = 9x 1. y = x + 20 = 9x 1. y = x + 20 = 9x 1. y = x + 20 = 16 5. I, x = x + 20 = 9x 1. y = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. x = x + x + 4 = 0 1. the data in statement 1 alone are sufficient to answer the question. (2) If the data in statement 1 alone are sufficient to answer the question. (3) If the data in statement 1 alone are sufficient to answer the question. (4) If the data in statement 1 alone are sufficient to answer the question. (5) If the data in both statements 1 and II together are not sufficient to answer the question. (6) If the data in both statements 1 and II together are not sufficient to answer the question. (7) If the data in both statements 1 and II together are not sufficient to answer the question. (6) If the data in both statements 1 and II together are not sufficient to answer the question. (7) If the data in both statements 1 and II together are not sufficient to answer the question. (8) If the data in both statements 1 and II together are not sufficient to answer the question. (9) If the data in both statements 1 and II together are not sufficient to answer the question. (1) If we data in statement 1 alone are sufficient to answer we are as a firet 6 years? (1) Now ownen, five boys and three men together complete the work is kix days. (2) If the data in thet wereage speed of a truic whereas tha average speed of a		1. If $x > y$ 2. If $x \ge y$	Directions (66-70) : Study the pie-chart			
 5. If x = y or the relationship cannot be costabilished. 56. I. x⁺ + 5x + 6 = 0 II. y⁺ + 7y + 12 = 0 57. I. x⁺ + 20 = 9x II. y⁺ + 7y + 12 = 0 58. I. 2x + 3y = 14 II. y⁺ + 2y = 16 50. I. x⁺ + 4x + 4 = 0 II. y⁻ - 8y + 16 = 0 50. I. x⁺ + 4x + 4 = 0 II. y⁻ - 8y + 16 = 0 51. The statement I alone are not sufficient to answer the question while the data in statement I alone are sufficient to answer the question. (2) If the data in statement I alone are not sufficient to answer the question. (3) If the data in statement I alone are sufficient to answer the question. (4) If the data given in both statements I and II together are not sufficient to answer the question. (5) If the data in both statements I and II together are not sufficient to answer the question. (6) If the data in both statements I and II together are not sufficient to answer the question. (7) If the data in both statements I and II together are necessary to answer the question. (8) If the data in both statements I and II together are necessary to answer the question. (9) If the data is worn complete the work is ix days. (10) Eight women complete the work is ix days. (11) Eight women complete the work never age speed of a train wherease the average speed of a train wherease the average speed of a train wherease the average speed of a train wherease ? (11) The rate of the simple interest for the neverage speed of a train wherease ?? (12) Near e gars is 5 p.c.p.a. ? (13) Near efficient of albus is 45 km/hr. (2) What is the total cost of 4 kgs of apples and 3 kgs of mangoes together ? (3) None of these (4) Hear at the data in wherease the average speed of a train wherease the average sp		3. If $x < y$ 4. If $x \leq y$	carefully to answer the questions that follow:			
 established. 57. I. x⁺ + 20 = 9x. II. y² + 7y + 12 = 0 57. I. x⁺ + 20 = 9x. II. y² + 42 = 13y 58. I. 2x⁺ 3y = 14 59. I. x⁻ √625 51. K + 4x + 4 = 0 50. I. x⁺ + 4x + 4 = 0 51. K + 4x + 4 = 0 52. I. x⁺ + 4x + 4 = 0 52. I. x⁺ + 4x + 4 = 0 51. K + 4x + 4 = 0 52. I. x⁺ + 4x + 4 = 0 52. I. x⁺ + 4x + 4 = 0 53. I. x⁺ + 4x + 4 = 0 54. I. x⁺ + 4x + 4 = 0 55. I. x⁺ + 4x + 4 = 0 56. I. x⁺ + 4x + 4 = 0 57. I. x⁺ + 4x + 4 = 0 57. I. x⁺ + 4x + 4 = 0 57. I. x⁺ + 4x + 4 = 0 57. I. The tais in statement I alone are sufficient to answer the question. 51. If the data in statement I alone are sufficient to answer the question. 52. If the data in both statements I and II together are not sufficient to answer the question. 61. In how many days will five women complete the work? 62. What will be Shyam's age after 6 years ? 63. What will be Shyam's age after 6 years ? 64. What is the average speed of a truck whereas the average		5. If $x = y$ or the relationship cannot be	Percentage breakup of number of children in			
 56. I. x⁴ + 5x + 6 = 0 II. y² + 7y + 12 = 0 58. I. 2x + 3y = 14 II. 4x + 2y = 16 59. I. x² + 4x + 4 = 0 II. y² - 8y + 16 = 0 Directions (61-65): Each of the questions below consists of a question and two statements numberd 1 and II given below it. You have to decide whether the data provided in the statement are sufficient to answer the question. (1) If the data in statement I alone are sufficient to answer the question. (2) If the data in statement I alone are sufficient to answer the question. (3) If the data in statement I alone are sufficient to answer the question. (4) If the data given in both statements I and II together are not sufficient to answer the question. (5) If the data in both statements I and II together are not sufficient to answer the question. (6) If the data in both statements I and II together are not sufficient to answer the question. (6) If the data in both statements I and II together are not sufficient to answer the question. (6) If the data in both statements I and II together are noressary to answer the question. (6) If he wata given in both statements I and II together are necessary to answer the question. (6) If he wata given in both statements I and II together omplete the work in six days. (6) If the data in both statements I and II together complete the work in six days. (7) The natio between Ram's and Shyam's present age is 4: 3 respectively. I. Raw is seven years older than Shyam's Mat is the total number of children nert of average speed of a truck whereas the average speed of a truck whereas the threa three years is 5 p.c.p.a.? I. The rate of		established.	five different villages and breakup of children			
 57. I. x⁺ + 20 = 9x II. y⁺ + 22 = 13y 58. I. 2x⁺ √625 II. 4x⁺ + 2y⁻ = 14 59. I. x⁻ √625 II. y⁻ = √676 60. I. x⁺ + 4x⁺ + 4 = 0 II. y⁰ - 8y⁺ 16 = 0 Directions (61-65): Each of the questions below consists of a question and two statements mumberd I and II given below it. You have to decide whether the data provided in the statement are sufficient to answer the question. 71. If the data in statement II alone are not sufficient to answer the question. 72. If the data in statement I alone are sufficient to answer the question. 73. If the data given in both statements I and II together are not sufficient to answer the question. 74. If the data given in both statement I alone are not sufficient to answer the question. 75. If the data given in both statements I and II together are not sufficient to answer the question. 76. If the data given in both statements I and II together are necessary to answer the question. 77. The ratio between Rami's and Styam's present age is 4: 3 respectively. 78. Read what is the average speed of a turai wherease the average speed of a turai wherease the average speed of a turai whereas the average speed of a turai wherease the average speed of a turai wher	56.	I. $x^2 + 5x + 6 = 0$ II. $y^2 + 7y + 12 = 0$	attending school from those villages			
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 39. 1. x² v625 1. y² v676 60. 1. x² + 4x + 4 = 0 11. y² - 8y + 16 = 0 Directions (61-65): Each of the question and two statements numberd I and II given below it. You have to decide whether the data provided in the statement I alone are sufficient to answer the question. (3) If the data in statement I alone are not sufficient to answer the question. (3) If the data either in statement I alone are sufficient to answer the question. (4) If the data given in both statement I alone are sufficient to answer the question. (5) If the data in both statement I alone are sufficient to answer the question. (6) If the data given in both statement I alone are sufficient to answer the question. (7) If the data in both statement I alone are sufficient to answer the question. (8) If the data given in both statements I and II together are nocessary to answer the question. (9) If the data is both statements I and II together are nocessary to answer the question. (9) If the data is both statements I and II together are necessary to answer the question. (9) The ratio between Ram's and Shyam's present age is 4 : 3 respectively. (10) Edit women complete the same work in twelve days. (2) What will be Shyam's age after 6 yeas? (3) None of these (4) What is the simple interest for the average speed of a truck whereas the average speed of a tr	58.	I. $2x + 3y = 14$ II. $4x + 2y = 16$	000			
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 Directions (61-65): Each of the question and two statements numberd I and II given below it. You have to decide whether the data provided in the statement I alone are sufficient to answer the question. (2) If the data in statement I alone are not sufficient to answer the question. (3) If the data in statement I alone are not sufficient to answer the question. (3) If the data given in both statements I alone are not sufficient to answer the question. (4) If the data given in both statements I and II together are not sufficient to answer the question. (5) If the data in both statements I and II together are not sufficient to answer the question. (61. In how many days will five wome complete a work? (7) The rate of he boys and three mentogether complete the work? (8) What will be Shyam's age after 6 years? (9) The ratio between Ram's and Shyam's present age is 4 : 3 respectively. (9) None of these (1) Average speed of a bus is 45 km/hr. (1) Average speed of a bus is 45 km/hr. (3) Average speed of a bus is 45 km/hr. (4) What is the average speed of a bus is 45 km/hr. (5) None of these (6) None of these (7) The rate of he simple interest for the average speed of a bus is 45 km/hr. (6) What is the total number of children attending school from village L and N together? (1) He at the simple interest for the first three years is 5 p.c.p.a.? (1) The rate of he simple interest for the first three years is 5 p.c.p.a.? (2) Ta% (2) T2% (3) 57% (4) 66% (3) None of these 	60.	1. $x^2 + 4x + 4 = 0$ II. $y^2 - 8y + 16 = 0$	$0^{\circ} \frac{P}{30\%}$ 15%			
 consists of a question and two statements in mumber I and II given below it. You have to decide whether the data provided in the statement is any sufficient to answer the question. (1) If the data in statement I alone are not sufficient to answer the question. (2) If the data in statement I alone are sufficient to answer the question. (3) If the data either in statement I alone are sufficient to answer the question. (3) If the data given in both statements I and II together are not sufficient to answer the question. (4) If the data given in both statements I and II together are not sufficient to answer the question. (5) If the data in both statements I and II together are necessary to answer the question. (6) If the data in both statements I and II together are necessary to answer the question. (7) If the data is the statements I and II together are noresystement is gether complete the work in six days. (8) If the data is the statements I and II together are noresystement is gether complete the work in six days. (9) If the data is the statement I alone are sufficient to answer the question. (1) If the data is the statements I and II together are noresystement age also is 45 km/hr. (1) Average speed of a truck whereas the average speed of a tru	Dire	ctions (61–65) : Each of the questions below	60000 M			
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3 kgs of mangoes together ? (3) 57% (4) 66% (5) None of these	65	What is the total cost of 4 kgs of annles and	(1) 78% (2) 72%			
(5) None of these	00.	3 kgs of mangoes together ?	(3) 57% (4) 66%			
			(5) None of these			

ENGLISH LANGUAGE & COMPREHENSION

Directions (71-80) : Read the following passage carefully and answer the questions given below it. Certain words have been printed in bold to help you locate them while answering some of the questions.

The Criminal Investigation Department often makes use of fingerprints in identifying culprits. This procedure is based on the accepted truth that the figerprints of no two individuals are the same. A glance at the five fingers of our own hand convinces us of the differences that exist among them. No two individuals are the same, not even identical twins. Everyone is different from the other in one way or another.

Noticeable differences may exist in size, weight, age appearance, colour, voice, smile, etc. There are other differences which are not easily observable. Differences exist in the mental makeup, psychological actions, understanding capacity, attitude, abilities, interests, etc.

Every individual is a separate entity having his or her own identity. It speaks highly of the **Creator** who has not created human beings like the modern machine-made goods. Every individual has been created separately and differently from the **rest**.

Individual differences exist because of heredity, family background, education, environment, etc. Whatever the causes or reasons, we must accept the fact that there are individual differences both perceptible and non-perceptible. Consequently, two individuals cannot be expected to react to a situation or a problem in the same way. There are as many opinions as there are men. It is bound to be so. On should not be **surprised** to get different opinions from different people on the same issue.

Individual differences affect the actions, reactions and performances of people. In a family of three children, the eldest may do extremely well at studies, and the parents expect the same kind of performance from the others. It is certainly unjust and **unfair** as each of them is different in several ways. Very often we wonder why a person reacts the way he or she does. We consider that person to be strange, abnormal or stupid. Yet that person may be quite normal and intelligent. These differences in reactions can be understood only if individual differences are kept in mind. In fact, this concept helps people understand each other better. It results in respect and **appreciation** for each other's views.

It is understood that each one is a separate individual with his or her own identity. No one is expected to be a carbon copy of another. We may imitate or hero-worship, but it would be wrong to identify ourselves with someone else. We are different and must remain so in our thoughts, words and actions.

- 71. Why do different people react differently to the same issue? Select the best answer.
 - (1) Because they want to establish their superiority over others.
 - (2) Because of individual differences both perceptible and non-perceptible
 - (3) Because of their different physical make-up
 - (4) because of their different attitudes
 - (5) None of the above
- 72. How does the existence of individual differences glorify God?
 - A. The God has created every individual separately and differently from the rest.
 - B. No machine can produce every product of different types.
 - C. God is great, and no one can be more powerful than God.
 - (1) Only (A)
 - (2) Only (B)
 - (3) Only (C)
 - (4) Only (A), (B) and (C)
 - (5) None of these
- 73. Find the incorrect statement on the basis of the given passage.
 - (1) It is unjust and unfair to think all the children of the same person to be identical.
 - (2) Two sons of the same parents will react to a situation in the same way if they are identical twins.
 - (3) The procedure of the CID is based on the truth that the fingerprints of no two individuals are the same.
 - (4) No one is expected to be a carbon copy of another.
 - (5) None of these

74. What are the causes for individual differences?

- (1) Every individual has different fingerprints.
- (2) Every individual wears different clothes and has different hairstyles and appearance.
- (3) Every individual has a different background, educational environment and heredity.
- (4) Every individual is the offspring of different parents.
- (5) None of the above

75. Why is it wrong to identify ourselves with 81. Which of the following should be the **THIRD** someone else ? after rearrangement ? (1) A (2) E (1) Because this world is made up of mil-(3) D (4) F lions of different individuals. (5) C (2) Because we are not identical. Which of the following should be the **FIRST** 82. (3) Because it is not a good trait to imitate after rearrangement ? others. (1) A (2) B (4) Because we can do better than others. (3) C (4) D (5) None of the above (5) E Direction (76-78) : choose the word which is 83. Which of the following should be the most SIMILAR in meaning to the word printed **SECOND** after rearrangement ? in bold as used in the passage. (2) B (1) A 76. Creator (3) D (4) E (1) founder (2) designer (5) F (3) God (4) destroyer Which of the following should be the **SIXTH** 84. (5) destructor (LAST) after rearrangement ? 77. Rest (1) C (2) E (1) break (2) holiday (3) D (4) B (4) sleep (3) remaining (5) F (5) slumber 85. Which of the following should be the FIFTH 78. Appreciation after rearrangement ? (1) gratitude (2) attitude (1) B (2) C (3) neglect (4) disregard (3) A (4) E (5) criticism (5) F Direction (79-80) : Choose the word which is Directions (86-95) : In each of the following most OPPOSITE in meaning of the word printed sentences there are two blank spaces. Below in bold as used in the passage. each sentence there are five pairs of words 79. Surprise denoted by number (1), (2), (3), (4) and (5). Find (1) expectation (2) amazement out which pair of words can be filled up in the (3) miracle (4) bewilderment blanks in the sentence in the same sequence (5) jolt to make it meaningfully complete. 80. Unfair India's _____ of having a pool of English-86. (1) dark (2) unethical speaking ____ has been used by (3) foul (4) honest industrialized countries for years. (5) cruel (1) advantage, professionals Directions (81-85) : Rearrange the following (2) image, bureaucrats five sentences (A), (B), (C), (D) and (E) in the (3) scenario, technocrats proper sequence to form a paragraph; then (4) progress, manpower answer the questions given below them. (5) scope, society (A) Had it been not for them, Indian banks 87. For an industry to ____ _____ it is essential to would have their hands tied down too. costs and restructure. (B) Today almost all the countries are facing (1) bounce, balance the heat of recession. (2) establish, curtail (C) One of these is the strict RBI and SEBI rules (3) survive, reduce which regulated banking sector very (4) flourish, enhance efficiently. (5) compete, avoid (D) This could have led to massive losses to 88. The consequent helplessness and loss of them, which could have percolated to other in the political system is used by terrorist organisation to _____ our nation. sectors as well. (1) hope, politicise (E) However there are a few things which help (2) confidence, destabilise India in bouncing back from the state of (3) ruling, challenge recession. (4) image, defame (F) Like others India too has not remained (5) governing, derail immune to the epidemic.

	89.	India a peaceful to the differences between the Israelis and the Palestinians.
		(1) offers, harmony
		(2) derives, co-existence
		(3) wishes, dialogue
		(4) imagines, resolution
		(5) expects, solution
	90.	India has made it clear that an
		improved relationship with one should not
		be at the of the other.
		(1) readily, hostility
l		(2) basically, interest
		(3) often, demise
l		(4) always, expense
l		(5) avowedly, ground
	91.	If India can play any in the gulf, it will be acting as a true friend of both the
		countries.
l		(1) interest, minimising
		(2) card, curbing
		(3) game, diminishing
l		(4) fiddle, filling
l		(5) role, bridging
	92.	The two objectives seem poles at the because of the continuing violence
		in the region.
		(1) apart, moment
l		(2) different, time
l		(3) away, circumstances
		(4) wide, hour
		(5) aloof, conditions
l	93.	The aim of science is to the deepest
		spiritual truths, and the aim of spirituality
		is to for the cause behind scientific
		fact.
l		(1) uproot, verification
		(2) avail, emancipate
		(3) uncover, search
		(4) diagnose, experiment
		(5) discover, worship
I		

- 94. Without a direct attack on rural poverty, the constitutional _____ of social equality can never be _____ .
 - (1) aim, desirable
 - (2) provision, realised
 - (3) dream, imagined
 - (4) goals, availed
 - (5) specification, thought
- 95. It is a tragic paradox that people who have ______ educational skills should be without ______ for upward social and economic mobility.
 - (1) distinguished, skill
 - (2) greatest, duty
 - (3) basic, expertise
 - (4) exceptional, avenues
 - (5) prestigious, prestige

Directions (96 - 100): Read each sentence to find out whether there is any grammatical error or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is 5). (Ignore errors of punctuation, if any.)

- 96. 1) Reading /2) pages after pages /3) she went through/ 4) the novel quickly. /5) No error.
- 97. 1) Hearing the news /2) of this /3) sister's death /4) he burst in tears. 5) No error.
- I) I shall /2) avail of /3) his opportunity /4) to go abroad. /5) No error.
- 99. 1) He is one of /2) those persons /3) who is never satisfied /4) with any achievements. /(5) No error.
- 100. 1) Such an assertion /2) will help prepare/3) the nation/ 4) for settlement of the issue. /5) No error.

(SOLUTION)

REASONING

1. (4) In the expression $A > B \ge C = D \le E = F$ to make

A > D true and F C true.

- (4) Both the expressions are true in option

 (4)
- (5) It is clear that P is husband of R. If he establish that T is either son or daughter of S, then P would be son-in law of S.
 - T + S means T is daughter of S.
 - $T \div S$ means T is son of S.

(4-8):

Nai	me	Days	Telecom Company
А		Saturday	Uninor
В		Wednesday	Vodaphone
С		Wednesday	BSNL
D		Friday	MTNL
Е		Friday	Airtel
F		Tuesday	Idea
Н		Saturday	Realince
4.	(1)	5.	(4) 6. (2)
7.	(2)	8.	(1) 9. (2)
10.	(1)	11.	(5) 12. (2)
13.	(1)		

Solutions (14-18) :

Input : 89 who root 19 46 near drink link gold 61 23 under 71 97

0.				
Step I :		19 89 who root 46 near link gold 61		
		23 under 71 97 d	lrink	
Step II :		23 19 89 who roo	ot 46 near link 61	
		under 71 97 drin	k gold	
Ste	ep III :	46 23 19 89 who	root near 61	
		under 71 97 drin	k gold link	
Ste	ep IV :	61 46 23 19 89 w	ho root under 71	
		97 drink gold lin	k near	
Ste	epV:	71 61 46 23 19 8	9 who under 97	
		drink gold link n	ear root	
Ste	p VI :	89 71 61 46 23 19 who 97 drink		
		gold link near ro	ot under	
Step VII :		97 89 71 61 46 23 19 drink gold		
		link near root un	ider who	
14.	(5)	15. (4)	16. (2)	
17.	(3)	18. (3)		
(19-	22) :			
19.	(4)	20. (2)	21. (2)	

22. ((4)	23. (2)	24. (2)		
25. ((2)				
(26-	(26-30) :				
Ro	om No.	Color	Person		
	11	Pink	E or C and S		
4	22	Blue	U or Q and T		
	33	Black	E or C and P		
2	14	Green	U or Q and R		
ļ	55	White	F,D		
(56	Yellow	A,B		
26.	(4)	27. (4)	28. (3)		
29.	(5)	30. (2)			
31.	(4)				
	Exams (Test	Question		
	\bigcirc				
	I. ×	II. ×			
32.	(1)		_		
	$((\subseteq$	Force	Heat		
		Energies			
		Powers			
	I. 🖌	II. ×			
33.	(5) $(Note) \rightarrow$	Coin Metals			
	Plastic				
	I. 🖌	II. 🖌			
			\sim		
~ .		─ ((s	$_{\rm ymbol}()$ Figures)		
34.	(5) (pictu	ure) Â			
		Gr	aphic		
	I. 🖌	II. 🖌			
	-				
	Va	icancies Occur	nations		
35.	(2)	Job			
	I. ×	II. 🖌			
		Maths			
26	(1) 2 62	255.22			
36.	$(1) = \frac{1}{18.5}$	$\frac{1}{5^{\prime} 21.4} = 15.8$	5		

37. (2)
$$? = \frac{1.5 \cdot 78}{0.5} = 234$$

38. (4) $? = 302.46 + 395.72 - 123.47$
 $= 698.18 - 123.47 = 574.71$
39. (3) $\sqrt[3]{7} = \sqrt[3]{4096} + \sqrt[3]{64}$
 $= \sqrt[3]{16 \cdot 16 \cdot 16} + \sqrt[3]{4 \cdot 4 \cdot 4}$
 $= 16 + 4 = 4$
 $\Box = ? = 4 \times 4 \times 4 = 64$
40. (4) $\frac{800 \cdot ?}{100} = 293 - \frac{750 \cdot 22}{100}$
 $\Rightarrow 8 \times ? = 293 - 165 = 128$
 $\Rightarrow ? = \frac{128}{8} = 16$
41. (4) The series is based on the following pattern.
 $11 = 2 \times 3 + 5$
 $38 = 11 \times 4 - 6$
 $197 = 38 \times 5 + 7$
 $1172^{-1} 197 \times 6 - 8$
 $\Box 1172$ is wrong and it should be replaced by 197 $\times 6 - 8 = 1174$
42. (1) The series is based on the following pattern :
 $107 - 71 = 36 = 6^2$
 $71 - 46 = 25 = 5^2$
 $46 - 30 = 16 = 4^2$
 $30 - 21 = 9 = 3^2$
 $21 - 19 = 2^{-1} 2^2$
 $\Box 19$ should be replaced by 17 for which $21 - 17 = 2^2$
43. (4) The series is based on the following pattern :
 $16 = 9 + 7$
 $25 = 16 + 9$
 $41 = 16 + 25$
 $68^{-1} 25 + 41$
44. (3) The series is based on the following pattern :
 $4 \cdot 22 \cdot \frac{3}{(3.5)} = 7.5 \cdot 26.25 \cdot 118.125$
 $\sqrt[3]{0.5} \times 1.5 \cdot \sqrt{5.5} = \frac{11.75}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.64}{\sqrt{5.5}} = \frac{1.175}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.64}{\sqrt{5.5}} = \frac{1.175}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.64}{\sqrt{5.5}} = \frac{1.175}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.64}{\sqrt{5.5}} = \frac{1.175}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.175}{\sqrt{5.5}} = \frac{1.875}{\sqrt{5.5}} = \frac{1.175}{\sqrt{5.5}} = \frac{1.175}{\sqrt{5.5}}$

Thus, its price would be k $(6x)^2$ rupees. The total price of those three stone pieces = k $[(1x)^2 + (2x)^2 + (3x)^2]$ = 14 k x^2 rupees Now, loss occured after being cut = $36kx^2$ – $14kx^2 = 22 kx^2$ Now, acording to question, ₹ 5184 = 36 k*x*² $p = 1 kx^2 = \frac{5184}{36} = ₹ 144$ p 22 k x^2 = 144 × 22 = ₹3168 47. (4) Suppose capacity of the tank = 24 litre. Thus, Efficiency of A = 3 litre/hour and B = 4 litre/hour After 2 hour, amount of water in tank $= 2 \times (4 + 3) = 14$ litre. Now, Amount of water to be filled = 24 - 14 = 10 litre. Thus, Total time required by B to fill the $tank = \frac{10}{4} = 2.5$ hours. (2) The rate interest accrued on the sum 48. $=\frac{700}{5000} \times 100 = 14\%$ Thus, required simple interest = 7000 × ¹⁷⁰/₁₀₀ = ₹11,900 49. (4) Required ratio = $\frac{6.4}{21.6}$ $\mathbf{b} \quad \frac{v_1}{v_2} = \frac{6.4}{21.6}$ $\mathbf{p} \quad \frac{\frac{2}{3}p(r_1)^3}{\frac{2}{3}p(r_2)^3} = \frac{8}{27}$ $\mathbf{p} \quad \underbrace{\overset{\mathbf{a} \mathbf{r}_1}{\mathbf{e} \mathbf{r}_2 \cdot \mathbf{o}}}_{\mathbf{e} \mathbf{r}_2 \cdot \mathbf{o}} \overset{\mathbf{a}^3}{=} \underbrace{\overset{\mathbf{a} 2}{\mathbf{e} \mathbf{3}} \overset{\mathbf{a}^3}{\mathbf{o}}}_{\mathbf{a} \mathbf{a}} \mathbf{p} \quad \mathbf{r}_1 : \mathbf{r}_2 = 2 : \mathbf{3}$ (4) Total age of all 4 boys = $4 \times 9 = 36$ yrs. 50. Now, at present would be $(36 + 5 \times 4)$ yrs. Again, Total age of all five boys at present = 15 × 5 = 75 yrs. Thus, age of new boy = 75 - 56 = 19 yrs. 51. (3) $? = \frac{150}{17} \times \frac{199}{12} \times \frac{91}{16}$ » $\frac{150}{15} \times \frac{200}{15} \times \frac{90}{15}$ » 770 (1) ? » 151 - 420 + 650 » 381 52.

 \Box Required answer = 380

53. (1) ? »
$$\frac{1300}{20} \times 25 + 400$$

» 1625 + 400 » 2025
54. (4) ? » $\frac{30'500}{100} + \frac{40'800}{100}$
» 150 + 320 » 470
55. (4) ? » 15² - 7² + 5³
» 225 - 49 + 125 » 301
□ Required answer = 300
56. (2) I. $x^2 + 5x + 6 = 0$
b $x = -3 \text{ or } -2$
II. $y^2 + 7y + 12 = 0$
b $y = -4, -3$
57. (3) I. $x^2 - 9x + 20 = 0$
b $x = 5, 4$
II. $y^2 - 13y + 42 = 0$
b $y = 6, 7$
58. (3) $2x + 3y = 14$...(I)
 $4x + 2y = 16$...(II)
By equation (I) × 2 - equation II,
 $4x + 6y - 4x - 2y = 28 - 16$
b $4y = 12$ b $y = 3$
From equation I,
 $2x + 3 \times 3 = 14$
p $2x = 14 - 9 = 5$ P $x = \frac{5}{2}$
59. (5) I. $x = \sqrt{625} = \pm 25$
II. $y = \sqrt{676} = \pm 26$
60. (3) I. $x^2 + 4x + 4 = 0$
 $(x + 2)^2 = 0$ P $x = -2$
II. $y^2 - 8y + 16 = 0$
p $(y - 4)^2 = 0$
b $y = 4$
61. (2) From statement II,
 $M_1D_1 = M_2D_2$
p $8 \times 12 = 5 \times D2$
p $D_2 = \frac{8 \cdot 12}{5} = \frac{96}{5}$
 $= 19\frac{1}{5}$ days
62. (5) From statement II,
If the present age of Shyam be x year then
Ram's present age = $(x + 7)$ years then
From statement I,

 $\frac{x+7}{x} = \frac{4}{3}$ 4x = 3x + 21p x = 21 \Box Shyam's age after 6 years = 21 + 6 = 27 years (4) Data from both the statements are 63. inadequate. (5) From statements I and II, simple 64. interest $= \mathbf{R} \frac{a^{5000' \ 3' \ 5}}{\sqrt[6]{100}} + \frac{5000' \ 3' \ 8}{100} \frac{\ddot{o}}{\dot{o}}$ = ₹ (750 + 1200) = ₹ 1950 65. (1) From statement I, Required C.P. = ₹ (4 × 85 + 3 × 50) = ₹ (340 + 150) = ₹ 490 (1) $\frac{2040^{\circ} 20}{100}$: $\frac{1450^{\circ} 20}{100}$ = 204 : 145 66. (5) $1450 \cdot \frac{12}{100} \times 100 = 24\%$ 67. 2040 [25+10] 100 (3) $\frac{2040'35}{100} - \frac{1450'44}{100} = 76$ 68. (2) $\frac{2040 \cdot 55}{100} + \frac{1450 \cdot 26}{100}$ 69. = 1122 + 377= 1499 1450 ′ 14 100 70. (4) $\overline{2040^{'}15} \times 100 \gg 66\%$ 100 **ENGLISH LANGUAGE** 96. (2) It should be - "page after page". 97. (4) It should be 'burst into tears'. 98. (2) It should be - 'avail myself of'. 99. (3) Replace 'is' with 'are' 100. (5) **CORRECTION:** Read 'his opportunity' as 'this Q. No. 98:

opportunity'.

1.	(4)	26. (4)	51. (3)	76. (3)
2.	(4)	27. (4)	52. (1)	77. (3)
3.	(5)	28. (3)	53. (1)	78. (1)
4.	(1)	29. (5)	54. (4)	79. (1)
5.	(4)	30. (2)	55. (4)	80. (4)
6.	(2)	31. (4)	56. (2)	81. (2)
7.	(2)	32. (1)	57. (3)	82. (2)
8.	(1)	33. (5)	58. (3)	83. (5)
9.	(2)	34. (5)	59. (5)	84. (3)
10.	(1)	35. (2)	60. (3)	85. (3)
11.	(5)	36. (1)	61. (2)	86. (1)
12.	(2)	37. (2)	62. (5)	87. (3)
13.	(1)	38. (4)	63. (4)	88. (2)
14.	(5)	39. (3)	64. (5)	89. (5)
15.	(4)	40. (4)	65. (1)	90. (4)
1 6 .	(2)	41. (4)	66. (1)	91. (5)
17.	(3)	42. (1)	67. (5)	92. (1)
18.	(3)	43. (4)	68. (3)	93. (3)
1 9 .	(4)	44. (3)	69. (2)	94. (2)
20.	(2)	45. (2)	70. (4)	95. (4)
21.	(2)	46. (4)	71. (2)	96. (2)
22.	(4)	47. (4)	72. (1)	97. (4)
23.	(2)	48. (2)	73. (2)	98. (2)
24.	(2)	49. (4)	74. (3)	99. (3)
25.	(2)	50. (4)	75. (2)	100. (5)