

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF MANAGEMENT
BBA/MBA MID-SEM 2016 - 17 Examination

Semester: 4th

Subject Code: 06191256 / 06191257

Date: 19/04/2017

Subject Name: ENGLISH & MATHS APTITUDE-I

Time: 2hr:00min

Total Marks: 50

Instructions

1. Attempt all questions from each section.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Write section-A, section-B on separate answer sheets.

SECTION-A-(25 Marks)

Q.1 (a) Select the correct option from the given alternatives to answer the following MCQs (03)

1. Physiology is related to Biology in the same way as Metaphysics is related to
(a) Physics (b) Statistics (c) Mathematics (d) Philosophy
2. Read A, B & C Directions (Questions 1- 2) :-
A) '134' means 'you are well',
B) '758' means they go home',
C) '839' means 'we are home'.
(i) Which of the following represents they' in that code language?
(a) 5 (b) 7 (c) 3 (d) 8 (e) Data inadequate
(ii) Which of the statements can be dispensed with while answering the above question?
(a) A only (b) B only (c) A or C only (d) B and C only (e) None of these

Q.1 (b) (i) Choose the alternative which is closely resembles the water-image of the given combination. (03)

N4 tQJ 3

(1) N4 tQJ 3

(2) N4 tQJ 3

(3) N4 tQJ 3

(4) N4 tQJ 3

(ii) Choose the correct water image of the given figure (X) from amongst the four alternatives.



(X)



(1)



(2)



(3)

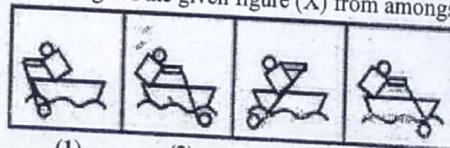


(4)

(iii) Choose the correct mirror image of the given figure (X) from amongst the four alternatives.



(X)



(1)

(2)

(3)

(4)

Q.2 1. Q1F, S2E, U6D, W21C, ? (08)
(a) Y66B (b) Y44B (c) Y88B (d) Z88B

2. If PAINT is coded as 74128 and EXCEL is coded as 93596. then how would you encode ACCEPT ?

- (a) 455978 (b) 547978 (c) 554978 (d) 735961

3. In a certain code, 'nee tim see means 'how are you'; 'ble nee see' means 'where are you' what is the code for 'where' ?

- (a) nee (b) tim (c) see (d) Can't be determined (e) None of these

4. If orange is called butter, butter is called soap, soap is called ink, ink is called honey and honey is called orange, which of the following is used for washing clothes ?

- (a) Honey (b) Butter (c) Orange (d) Soap (e) Ink

5. If bat is racket, racket is football, football is shuttle, shuttle is ludo and Zudo is carrom,

- what is cricket played with ?
 (a) Racket (b) Football (c) Bat (d) Shuttle (e) Carrom

6. Directions (Questions 1 to 3):

Read the following information and answer the questions based on it :

In a school, there were five teachers. A and B were teaching Hindi and English. C and B were teaching English and Geography. D and A were teaching Mathematics and Hindi. E and B were teaching History and French.

- Who among the teachers was teaching maximum number of subjects ?
 (a) A (b) B (c) C (d) D (e) E
- Which of the following pairs was teaching both Geography and Hindi ?
 (a) A and B (b) B and C (c) C and A (d) D and B (e) None of these
- More than two teachers were teaching which subject ?
 (a) History (b) Hindi (c) French (d) Geography (e) Mathematics

Q.3 (a) Directions (Questions 1-4) : Study the letter series given below and answer the questions that follow :

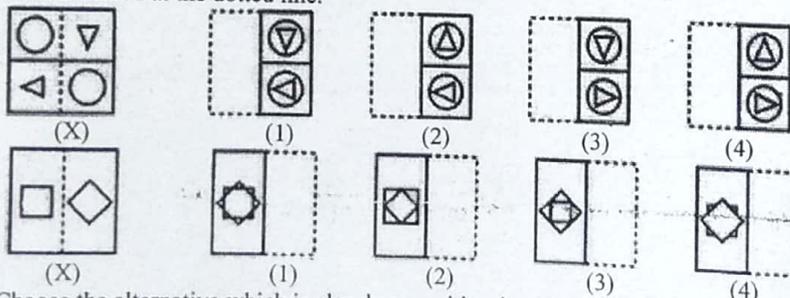
(04)

HDYSMWNBQPOCRTBLZVEGUF

- Which is the only letter that occurs twice?
 (a) B (b) E (c) M (d) S
- How many 'T' s are there in the following sequence which are immediately preceded by 'P' but not immediately followed by 'S'?
 STPQTSPTRPTSRPSTQPTRPTMPTS
 (a) None (b) One (c) Two (d) Three (e) None of these
- In the following series, count each 'N' which is immediately followed by 'X' but 'X' is not immediately followed by 'T'. How many such 'N's are there?
 NXNTQMNXTMXNXCNQMNNXQNXTXNAMXNXM
 (a) 2 (b) 4 (c) 5 (d) 7 (e) 9
- In the following letter sequence, how many 'n's are followed by 'm' but not preceded by 'h'?
 a g r h t n m b c n m l b u v n m h e r h n m g f e h n m e c n m w q a n m h l b
 (a) 4 (b) 5 (c) 6 (d) 7

Q.3 (b) Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.

(03)



Choose the alternative which is closely resembles the mirror image of the given combination.

UTZFY6KH

- (1) HK9YFJSLU (2) ULSFY9KH
 (3) HK0YFJSLU (4) HK0YFJSTU

OR

Q.3 (b) Direction : Arrange the given words in the alphabetical order and tick the one that come at last.

(03)

- (a) Regard (b) Refer (c) Remind (d) Report (e) Render
- (a) Demand (b) Destroy (c) Deterred (d) Direct (e) Damage
- (a) Finger (b) Flourish (c) Formal (d) Forget (e) Forgo
- (a) Cover (b) Collect (c) Caught (d) Callous (e) Career
- (a) Window (b) Marriage (c) Widow (d) Distress (e) Matrimonial
- (a) Mother (b) Monitor (c) Monkey (d) Master (e) Matter

- Q.4 (a) If the 3rd and the 9th terms of an A.P are 4 and -8 respectively, which term of this A.P is Zero? (01)
 (i) 5th (ii) 6th (iii) 4th (iv) 7th
- (b) If two lines intersect each other then _____ (01)
 (i) $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ (ii) $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ (iii) $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$ (iv) None of these
- (c) Nature of the roots of the quadratic equation $2x^2 - 3x + 5 = 0$ is (01)
 (i) Real and equal (ii) Real & distinct (iii) only Imaginary (iv) None of these
- (d) 20th term of the G.P $\frac{5}{2}, \frac{5}{4}, \frac{5}{8}, \dots$ is _____ (01)
 (i) $\frac{5}{8^{20}}$ (ii) $\frac{5}{4^{20}}$ (iii) $\frac{5}{2^{20}}$ (iv) None of these

SECTION - B - (25 Marks)

Q.1 (a) MCQ's (One Mark Each)

1. Find the value of k for which the system : $kx + 2y = 5, 3x + y = 1$ has a unique solution. (06)
 (i) $k = 6$ (ii) $k \neq 9$ (iii) $k \neq 6$ (iv) None of these
2. A man has some hens and cows. If the number of heads be 48 and number of feet equals 140, find the number of hens ?
 (i) 26 (ii) 24 (iii) 23 (iv) 22
3. $\sqrt{6 + \sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}}}$ is equal to
 (i) 2 (ii) 5 (iii) 4 (iv) 3
4. How many terms of the A.P 1, 4, 7, are needed to give the sum 715?
 (i) 33 (ii) 22 (iii) 24 (iv) 27
5. For what value of x, the number $-\frac{2}{7}, x, -\frac{7}{2}$ are in G.P?
 (i) 1, -2 (ii) 1, -3 (iii) 1, -5 (iv) 1, -1
6. Solution of the given inequality $\frac{5-2x}{3} \leq \frac{x}{6} - 5$ is
 (i) $[8, \infty)$ (ii) $(8, \infty]$ (iii) $[8, \infty]$ (iv) $(8, \infty)$

Q.2 (a) The fifth term of a G.P is 2, find the product of first 9 terms. (02)

(b) One root of the quadratic equation $x^2 - 5x + 6 = 0$ is 3. Find the other root. (02)

(c) A body falls 16 m in the first second of its motion, 48 m in the second, 80 m in the third, 112 m in the fourth and so on. How far does it fall during the 11th second of its motion? (02)

Q.3 (a) (i) The marks obtained by a student of BBA in first and second terminal examination are 62 and 48, respectively. Find the number of minimum marks he should get in the annual examination to have an average of at least 60 marks. (consider marks out of 100) (02)

(ii) ₹ 49 were divided among 150 children. Each girl got 50 paise and a boy 25 paise. How many boys were there? (02)

Q.3 (b) I am three times as old as my son . 5 years later, I shall be two and a half times as old as my son. How old am I and how old is my son? (03)

OR

Q.3 (b) The area of a rectangular plot is 528 m². The length of the plot (in metres) is one more than twice its breadth. find the length and breadth of the plot. (03)

Q.4 (a) If we add 1 to the numerator and subtract 1 from the denominator, a fraction reduces to 1. It becomes $\frac{1}{2}$ if we only add 1 to the denominator. What is the fraction? (02)

(b) Determine the A.P whose 3rd term is 5 and the 7th term is 9. (02)

(c) The difference of squares of two numbers is 180. The square of smaller number is 8 times the larger number. Find the two numbers. (02)