

2016

**BOOKLET NO.**

**TEST CODE: PLA**

Forenoon

**Questions: 30**

**Time: 2 hours**

*On the answer sheet write your Name, Registration Number, Test Code, Number of this booklet, etc. in the appropriate place.*

*The Test consists of two parts:*

*Part A Test of Quantitative Ability (Questions: 1-15).*

*Part B Test of Reasoning Ability (Questions: 1-15).*

*For each question four choices are given marked as A, B, C and D. Identify the correct answer and mark the option (i.e. A, B, C or D) against the question number in the answer sheet attached to this booklet.*

ALL ROUGH WORK MUST BE DONE IN THE SHEETS PROVIDED AT  
THE END OF THIS BOOKLET.  
YOU ARE NOT ALLOWED TO USE CALCULATORS.

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**STOP! WAIT FOR THE SIGNAL TO START**

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## QUESTION PAPER

Entrance test for M.S. (Library & Information Science) (2016)

**Test Code: PLA**

1. Answer all questions.
  2. All questions carry equal marks.
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### Part A Test of Quantitative Ability

1. Find the value for  $a$  if  $2^{a+1} \cdot 5a = 200$ .  
A. 5  
B. 7  
C. 4  
D. 2
2. A car during its journey travels 30 min. at a speed of 40km/h, another 45 minutes at a speed of 60km/h and 2 hours at a speed of 70km/h. Find its average.  
A. 55 km/h  
B. 60 km/h  
C. 45 km/h  
D. 63 km/h
3. If  $a^x = m$ ,  $a^y = n$  and  $a^z = (m^y n^x)^z$ , then find the value of  $xyz$ .  
A. 0  
B. 1  
C. 2  
D. None of the above
4. The sum to  $n$  terms of a series in arithmetic sequence is  $17n^2 - 7n$ . Find the value of its sixth term.

- A. 190
- B. 187
- C. 180
- D. 242

5. Arrange the following fractions in decreasing (descending) order:  $\frac{2}{91}$ ,  $\frac{5}{177}$ ,  $\frac{22}{1091}$ ,  $\frac{13}{558}$ .

- A.  $\frac{2}{91}$ ,  $\frac{5}{177}$ ,  $\frac{13}{558}$ ,  $\frac{22}{1091}$
- B.  $\frac{5}{177}$ ,  $\frac{22}{1091}$ ,  $\frac{2}{91}$ ,  $\frac{13}{558}$
- C.  $\frac{5}{177}$ ,  $\frac{13}{558}$ ,  $\frac{22}{1091}$ ,  $\frac{2}{91}$
- D.  $\frac{5}{177}$ ,  $\frac{13}{558}$ ,  $\frac{2}{91}$ ,  $\frac{22}{1091}$

6. After covering  $\frac{5}{8}$  of his journey, Ramesh finds that he has travelled 60 km. How much journey is left?

- A. 42 km.
- B. 27 km.
- C. 48 km.
- D. 36 km.

7. If Ranjan walks at 4km/h, he misses the bus by 10 min. If he walks at 5km/h, he reaches 5 min. before the arrival of the bus. How far Ranjan walks to reach the bus stand?

- A. 5 km.
- B. 3 km.
- C. 7 km.
- D. 10 km.

8. Suppose today is 3rd November. The day of the week is Monday. This is a leap year. What will be the day of the week on this day after 3 years?

- A. Tuesday
- B. Wednesday

C. Thursday

D. Friday

9. A number  $A$  exceeds  $B$  by 25%. By what percent is  $B$  short of  $A$ ?

A. 75%

B. 55%

C. 65%

D. 20%

10. The sum of the present age of  $A$ ,  $B$  and  $C$  is 90 years. Six years ago, their ages were in the ratio 1:2:3. What is the present age of  $C$ ?

A. 42 years

B. 39 years

C. 43 years

D. 38 years

11. A bag contains one rupee, fifty paise, twenty five paise and ten paise coins in the proportion 1:3:5:7. If the total amount is Rs. 22.25, find the number of coins of each kind.

A. Number of rupee coins 5, fifty paise 15, twenty five paise 25 and ten paise 35

B. Number of rupee coins 10, fifty paise 25, twenty five paise 15 and ten paise 30

C. Number of rupee coins 5, fifty paise 10, twenty five paise 25 and ten paise 30

D. Number of rupee coins 10, fifty paise 15, twenty five paise 20 and ten paise 30

12. Ramesh and Ravi can do a job alone in 10 days and 12 days respectively. Ramesh starts the work and after 6 days Ravi also

joins to finish the work together. For how many days Ravi actually worked on the job?

- A. 27/11 days
- B. 24/11 days
- C. 24/7 days
- D. 27/7 days

13. At 3.40, the hour hand and the minute hand of a clock form an angle of

- A.  $135^\circ$
- B.  $130^\circ$
- C.  $120^\circ$
- D.  $125^\circ$

*Study the following table and answer the questions 14 – 15.*

**Projected Population of Light Motor Vehicles (LMVs)**  
(Figures in million)

<i>Sl. No.</i>	<i>Country</i>	<i>Year: 1975</i>	<i>Year: 2030</i>
1	United States	141	382
2	Japan	120	238
3	France	67	164
4	China	63	117
5	Italy	18	61
6	Germany	21	58
7	UK	15	47
8	Canada	5	17
9	Switzerland	1.5	3

14. The ratio of the average population of LMVs of the middle three countries (sl. no. 4, 5, 6) in 1975 to the average population of last three countries (sl. no. 7, 8, 9) is nearly

- A. 19:4
- B. 7:2
- C. 11:3
- D. 17:5

15. The percentage growth of the average population of LMVs for the last three countries between the years 1975 and 2030 is approximately

- A. 71
- B. 162
- C. 212
- D. 221

### Part B Test of Reasoning Ability

*In each question numbered 1 – 2 is given a statement followed by two conclusions numbered I and II. You have to assume everything in the statement to be true, then consider the two conclusions together and decide which of them logically follows, beyond a reasonable doubt, from the information given in the statement.*

- A. *If only conclusion I follows.*
- B. *If only conclusion II follows.*
- C. *If neither I nor II follows.*
- D. *If both I and II follow.*

1. **Statement:** People who speak too much against the dowry are those who have taken it themselves.

**Conclusions:**

- I. It is easier said than done.
- II. People have double standards.

[Mark option A, B, C or D in the answer sheet]

2. **Statement:** A large majority of the work force in India is unorganised. Most of them earn either the minimum or uncertain wages while others are engaged in sundry jobs.

**Conclusions:**

- I. The workers in the organised sector get better facilities and stay longer in their jobs.
- II. Some workers in the unorganised sector of the work force have a regular and fixed income.

[Mark option A, B, C or D in the answer sheet]

*In each question numbered 3 – 4 is given a statement followed by three courses of actions numbered I, II and III. You have to assume everything in the statement to be true, then decide which of the three given suggested courses of action logically follows.*

3. **Statement:** A major rail accident involving a mail train was averted due to the presence of mind of one signal man at a wayside cabin.

**Courses of action:**

- I. The railway signalling systems should immediately be made automatic.
- II. The railway track for at least 50km should be cleared of any traffic ahead of all the mail trains.
- III. The signal man should be rewarded so as to encourage others.

- A. Only I and II follow
- B. Only II follows
- C. Only II and III follow

D. Only III follows

4. **Statement:** Many people in the locality have fallen sick and admitted in the local hospital after consuming sweets served during a community meal.

**Courses of action:**

I. The police should immediately arrest all the people responsible for making the sweets.

II. The people admitted in the local hospital should immediately be shifted to bigger hospitals.

III. The local food and drug authority should investigate to find out the cause of the sickness and take necessary action.

A. Only I and II follow

B. Only II follows

C. Only II and III follow

D. Only III follows

5. *Select the number(s) from the given options for completing the given series: 96, 90, 78, ?, 36, 6*

A. 60

B. 72

C. 48

D. 54

6. *In the given series find the number which is wrong:*

1, 5, 5, 9, 7, 11, 11, 15, 12, 17

A. 11

B. 15

C. 17

D. 12



7. Here are some words translated from an artificial language.

plekapaki means fruitcake

pakishillen means cakewalk

treftalan means buttercup

Which word could mean *cupcake*?

A. shillanalan

B. treftpleka

C. pakitreft

D. alanpaki

*For each question numbered 8 - 9, find out the term which will replace the question mark.*

8. Pearl : Necklace :: Flower : ?

A. Garden

B. Tree

C. Plant

D. Bouquet

9. Roster : Duty :: Inventory : ?

A. Furnace

B. Exports

C. Goods

D. Produce

10. Arrange the following in a meaningful sequence:

1. Senescence

2. Infancy

3. Puberty

4. Going adulthood

- A. 3, 2, 4, 1
- B. 1, 3, 4, 2
- C. 4, 3, 1, 2
- D. 2, 3, 4, 1

11. If 'ish lto inm' stands for 'neat and tidy'; 'qpr inm sen' stands for 'small but neat'; 'hsm sen rso' stands for 'good but erratic'; what would 'but' stand for?

- A. inm
- B. sen
- C. qpr
- D. hsm

12. Introducing a lady, a man said that her mother's husband's sister is his mother. What is the man's relationship with the lady?

- A. Nephew
- B. Cousin
- C. Father
- D. Data is insufficient

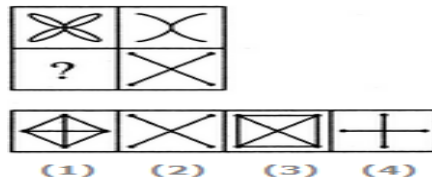
13. In a certain code language 8514 is a code for HEAD, 3945 for RIDE and 057 for BEG. What will be the code for GRADE?

- A. 71345
- B. 73415
- C. 74135
- D. 73145

14. *Burn* is related to *Ointment*, *grief* is related to .....

- A. Anger
- B. Sorrow
- C. Consolation
- D. Adversity

15. Select a suitable figure from the four alternatives that would complete the figure matrix.



- A. 1
- B. 2
- C. 3
- D. 4

## **ROUGH WORK**

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