

ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Solutions of Worksheet-23

SUBJECT - MATHEMATICS

2nd-term

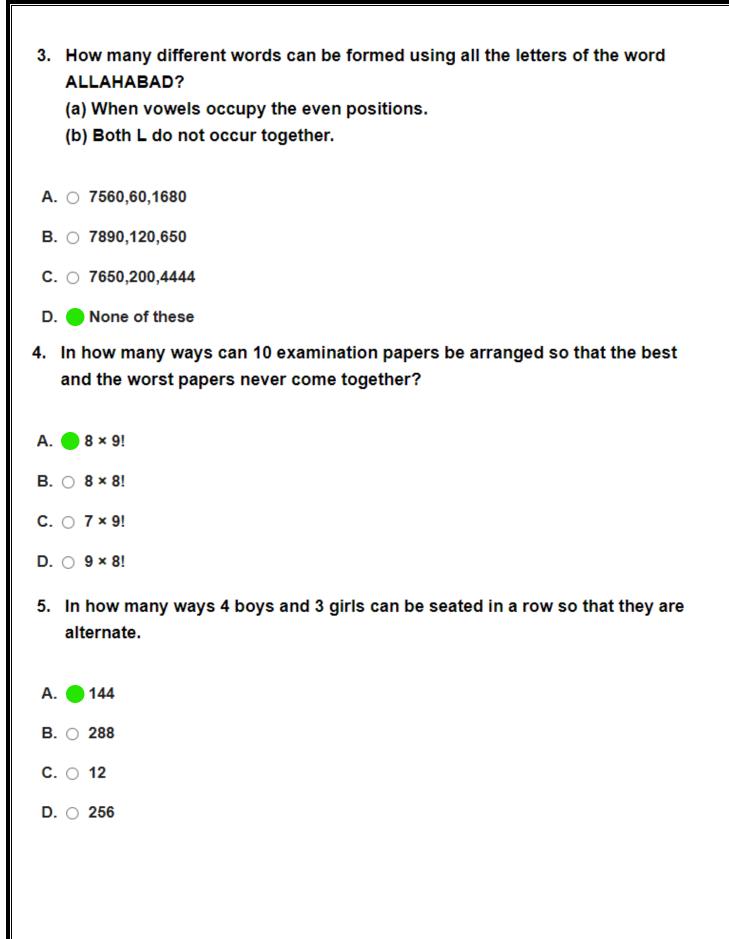
Chapter: Algebra Class: XI

Topic: Combinations Date: 17.11.2020

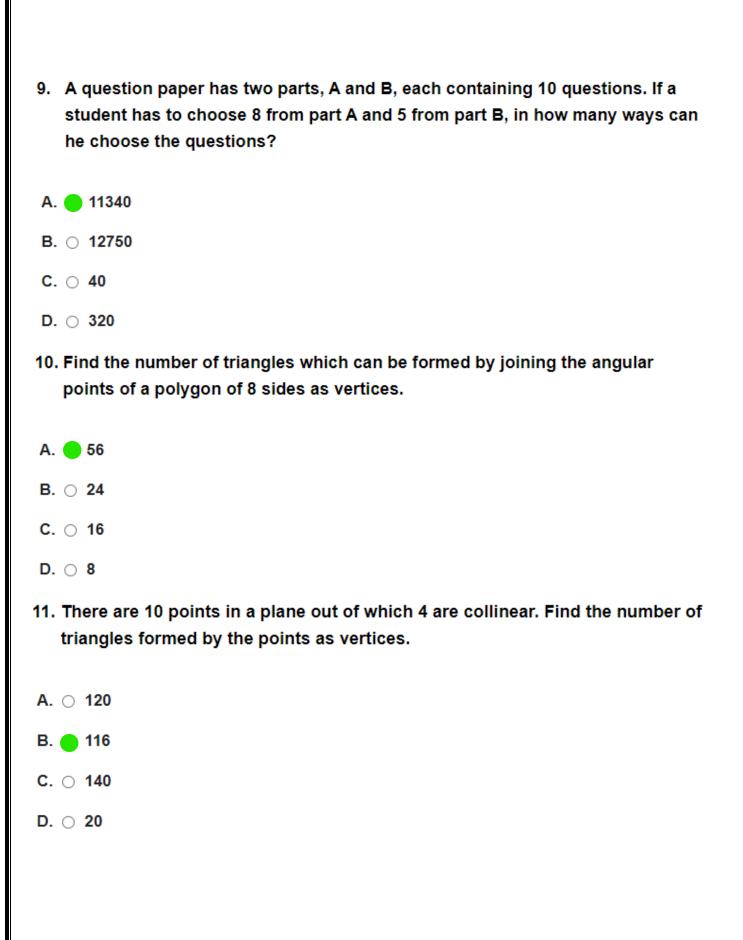
Choose the correct option

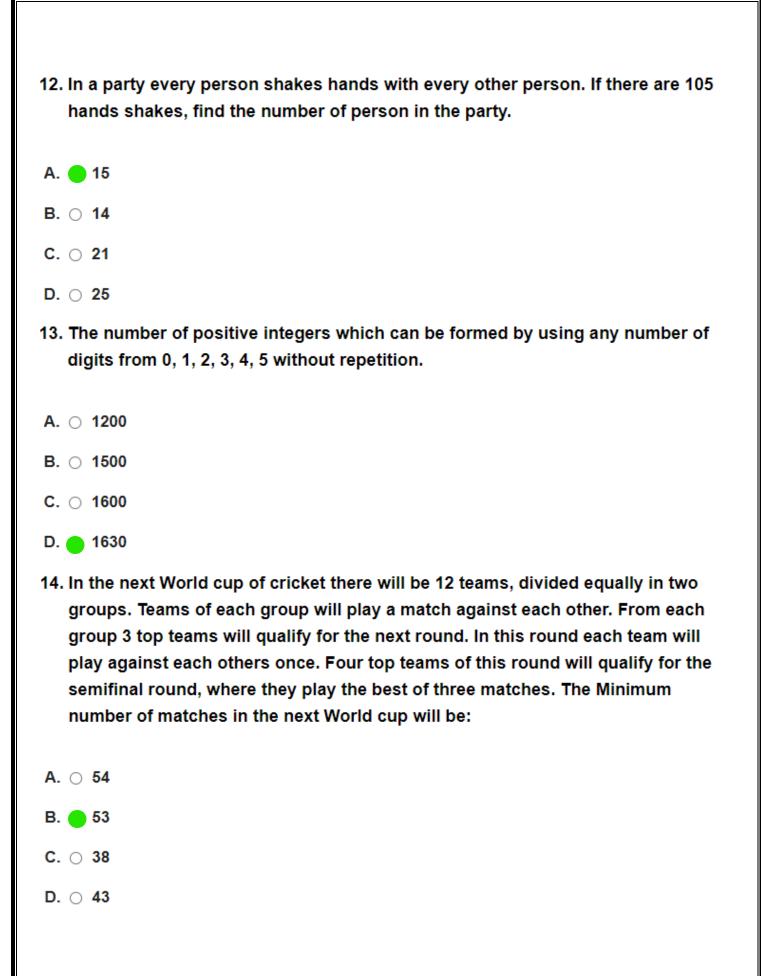
 $(1 \times 15 = 15)$

- 1. In how many ways can 8 Indians and, 4 American and 4 Englishmen can be seated in a row so that all person of the same nationality sit together?
- A. 3! 4! 8! 4!
- B. O 3! 8!
- C. 0 4! 4!
- D. O 8! 4! 4!
- 2. How many Permutations of the letters of the word APPLE are there?
- A. O 600
- B. O 120
- C. O 240
- D. 60



6.	A two member committee comprising of one male and one female member is to be constitute out of five males and three females. Amongst the females. Ms. A refuses to be a member of the committee in which Mr. B is taken as the member. In how many different ways can the committee be constituted?
Α.	O 11
В.	O 12
C.	O 13
D.	14
7.	In how many ways 2 students can be chosen from the class of 20 students?
Α.	190
В.	O 180
C.	O 240
D.	O 390
8.	Three gentlemen and three ladies are candidates for two vacancies. A voter has to vote for two candidates. In how many ways can one cast his vote?
Α.	○ 9
В.	O 30
C.	O 36
D.	1 5





15. There are 10 person among whom two are brother. The total number of ways
in which these persons can be seated around a round table so that exactly one
person sit between the brothers , is equal to:

- A. 7! × 2!
- B. O 2! × 8!
- C. O 3! × 7!
- D. O 3! × 8!

Prepared by :- SUKUMAR MANDAL (SkM).