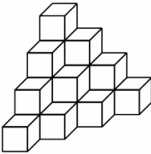
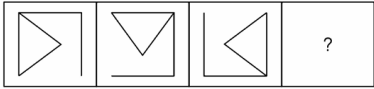
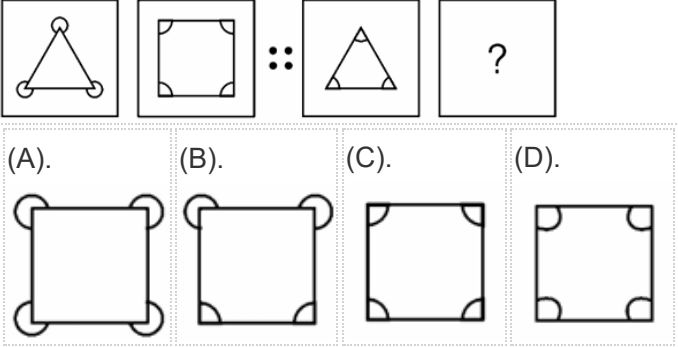
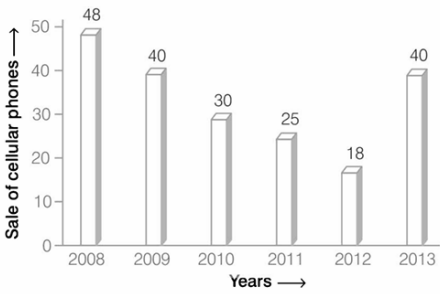


QP CODE: D2BMT2506	(Pages: 4)	Reg. No :
		Name :
Second Semester (FYUGP) Degree Examination April 2026 (Regular/Improvement/Supplementary) Multi-Disciplinary Courses (MDC) MAT2FM106(2)/AMA2FM106(2) : Mathematics for Competitive Examinations-Part II		
Time: 1.5 Hours	Maximum Marks: 50	
Section A		
Answer the following questions. Each carries 2 marks (Ceiling: 16 marks)		
1. In a class of 45 students, a boy is ranked 20th. When two boys is joined, his rank was dropped by one. What is his new rank from the end? (A).25th (B).26th (C).27th (D).28th	BL2	CO1, CO2, CO3
2. Pointing to a man on the stage, Rita said, "He is the brother of the daughter of the wife of my husband". How is the man on the stage related to Rita? (A).Son (B).Husband (C).Cousin (D).Nephew	BL2	CO2, CO3
3. Find the water image of the following combination of letters: "CORDIAL" (A). (B). (C). (D). CORDIAL CORDIAL CORDIAL CORDIAL	BL1	CO2, CO3
4.  How many cubes are there in the ground? (A).10 (B).16 (C).18 (D).20	BL1	CO1, CO2, CO3
5. Choose the figure which will complete the following series. (A). (B). (C). (D). 	BL1	CO2, CO3
6. Choose the word that completes the second pair, in the same way as the first pair. Bow: Arrow:: Pistol: ? (A).Bullet (B).Gun (C).Shoot (D).Rifle	BL2	CO2, CO3
(PTO)		

7.	Sheela walks from A to B, which is 2km away turns right at 90° and walks for 3km to point C, turns 90° and walks to D, which is 8km away, turns 90° right and goes 3km to point K. Then once again she turns right 90° and walks 4km to point F. How far is she from A? (A).2km (B).4km (C).6km (D).8km	BL2	CO2, CO3
8.	Choose the figure which will complete the second pair, in the same way as the first pair. 	BL1	CO2, CO3
9.	Refer to the following bar chart and answer the question. Find the percentage increase in sales from 2012 to 2013. Sales of cellular phones over the years 	BL1	CO1, CO2, CO3
10.	Two statements are given in the question followed by two conclusions numbered I and II. You have to take the two statements to be true even, if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two statements, disregarding the known facts. Statement I: All leaders are good team workers. Statement II: All good team workers are good orators. Conclusion I: Some good team workers are leaders. Conclusion II: All good orators are leaders. (A). if only conclusion I follows (C). if neither I nor II follows (B). if only conclusion II follows (D). if both conclusions I and II follow	BL2	CO2, CO3

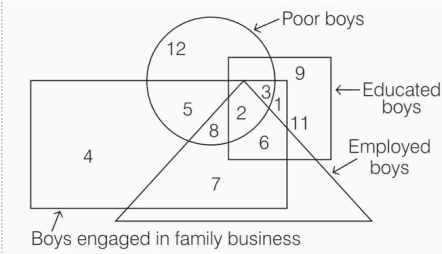
Section B

Answer the following questions. Each carries 6 marks (Ceiling: 24 Marks)

11.	Choose the letters group which is different from others. (i) (a) EDRS (b) HINM (c) POKL (d) VUYZ	BL2	CO1, CO2, CO3
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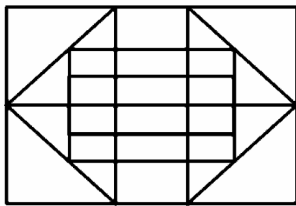
- (ii) (a) TuMBiN (b) XZaWoB (c) DNeRiF (d) OrDFkV
 (iii) (a) SUCCESES (b) TUNNING (c) SURRENDER (d) REPETATION

12. The circle represents poor boys, the square represents educated boys, the triangle represents the boys who are employed somewhere and the rectangle represents those who help in the family business. Each section of the diagram is numbered. Now, answer the questions given below on the basis of this diagram.



- (i) Which number represents those poor boys who help in family business but are not educated or employed elsewhere?
 (a) 2 (b) 3 (c) 5 (d) 4
- (ii) Which number represents the group of educated poor boys who are employed somewhere but do not help in family business?
 (a) 12 (b) 3 (c) 11 (d) None of these
- (iii) Which section does number 3 represents?
 (a) Uneducated poor boys who do not help in family business
 (b) Educated poor boys employed in service
 (c) Uneducated boys who help in family business
 (d) Educated poor boys who help in family business

13. Analyse the figure and answer the following questions.



- (i) Count the number of triangles in the figure.
 (A). 20 (B). 18 (C). 17 (D). 16
- (ii) The minimum number of straight lines needed to draw the figure is _____
 (A). 16 (B). 18 (C). 17 (D). 12

14. In a circle of radius 17cm, two parallel chords are drawn on opposite side of a diameter. The distance between the chords is 23cm. If the length of one chord is 16cm, then the length of the other is:

- (a) 34 cm (b) 15 cm (c) 23 cm (d) 30 cm

(PTO)

15. Complete the following series.

(i) 0, 1, 1, 2, 3, 5, 8, 13, 21, ?

(a) 34 (b) 35 (c) 33 (d) 36

(iii) 198, 202, 211, 227, ?

(a) 236 (b) 252 (c) 275 (d) 245

(ii) 1, 0, 3, 2, 5, 6, ?, 12, 9, 20

(a) 9 (b) 7 (c) 19 (d) 8

BL2 CO1,
CO2,
CO3

Section C

Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)

16. (i) In a certain code, 'TERMINAL' is written as 'NSFUMBOJ' and 'TOWERS' is written as 'XPUTSF'. How is 'MATE' written in that same code?

(a) FUBN (b) UFNB (c) BNFU (d) BNDS

(ii) In a certain code language, '123' means 'bright little boy', '145' means 'tall big boy' and '637' means 'beautiful little flower'. Which digit in that language means 'bright'?

(a) 1 (b) 2 (c) 3 (d) 4

(iii) In a certain code language 'Mink Young Pe' means 'fruits are ripe', 'Pe Lao May Mink' means 'oranges are not ripe' and 'May Pe Nue Mink' means 'mangoes are not ripe'. Which word in that language means 'mangoes'?

(a) May (b) Lao (c) Nue (d) Mink

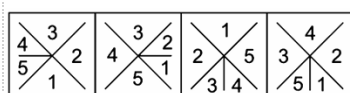
(iv) If 'gnr tag zog qmp' stands for 'Seoul Olympic Organising Committee', 'hyto gnr emf' stands for 'Summer Olympic Games' and 'emm sdr hyto' stands for 'Morden Games History'. What would be the code for 'Summer'?

(a) hyto (b) gnr (c) emf (d) zog

BL3 CO1,
CO2,
CO3

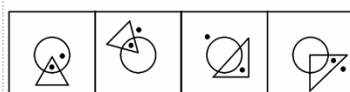
17. Choose the figure which is different from others.

(i) Problem figure



(a) (b) (c) (d)

(ii) Problem figure



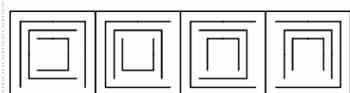
(a) (b) (c) (d)

(iii) Problem figure



(a) (b) (c) (d)

(iv) Problem figure



(a) (b) (c) (d)

BL2 CO1,
CO2,
CO3