

QB SERIES : D

2360

Countersigned on Verification

TEACHER-ON-DUTY

JADAVPUR UNIVERSITY

Admission test for.....20.....

SUBJECT.....

DATE OF EXAMINATION.....

INSTRUCTIONS TO CANDIDATE

1. Total marks: 50
2. Duration of Examination: One Hour.
3. Total number of MCQ type question =25
4. The correct answer will be awarded 2 marks but for an incorrect answer 1 (one) mark will be deducted.
5. The correct answer shall have to be marked by filling in the appropriate circle in black or blue ink.
6. Multiple answers to any question will not be awarded any marks.
7. Candidates must show their admit cards on demand.
8. Candidates found taking an unfair means are liable to be expelled from the examination Hall and all the papers in which he/she has already appeared are liable to be rejected.
9. Candidates will not be permitted to leave the examination hall before 45 minutes from the commencement of the examination.

FOR OFFICE USE ONLY

Bar code:

A. Marks obtained:

C. No. of incorrect answers:

MCQ TYPE QUESTION

- In a group of persons travelling in a bus, 6 persons can speak Bengali, 15 can speak hindi and 6 can speak Marathi. In that group, none can speak any other language. If 2 persons can speak 2 languages and 1 person can speak all the 3 languages, then how many persons are there in the group?
A) 21 B) 22 C) 23 D) 24
- What should come in place of question mark (?) in the following series:
132, 156, ?, 210, 240, 272
A) 196 B) 182 C) 199 D) 204
- Statement: Many business offices are located in buildings having 2-8 floors. If a building has more than 3 floors, it has a lift.
Conclusions :
A) All floors may be reached by lifts B) Only floors above the third floor have lifts
C) Seventh floors have lifts D) Second floors do not have lifts
- In the following question, the symbols \otimes , $*$, $=$, $@$, Δ are used with the following meaning :
 $P \otimes Q$ means P is greater than Q
 $P @ Q$ means P is either greater than or equal to Q
 $P = Q$ means P s equal to Q
 $P * Q$ means P is either smaller or equal to Q
 $P \Delta Q$ means P is smaller than Q
Statement I: $U \otimes N$, $S @ A$, $N \Delta D$, $A = U$ Conclusion I: $N \Delta S$, Conclusion II: $U = D$
A) Conclusion I is correct but Conclusion II may not be correct
B) Conclusion I is incorrect but Conclusion II is always correct
C) Both the conclusions are always correct
D) Both the conclusions may not be correct
- How many pairs of letters are there in the word EXCLAMATION which have same number of letters between them as in the English alphabet?
A) One B) Two C) Three D) More than Three
- In a certain code language: '134' means 'good and tasty', '478' means 'see good pictures', '729' means 'pictures are faint'. Which of the following digit stands for 'see'?
A) 9 B) 2 C) 1 D) 8
- If ROSE is coded as 6821, CHAIR is coded as 73456, PREACH is coded as 961473, then what will be the code for SEARCH?
A) 246173 B) 214673 C) 214763 D) 216473
- A man is facing north-west. He turns 90° in the clockwise direction, then 180° in the anti-clockwise direction and then another 90° in the same direction. Which direction he is facing now?
A) South B) South-west C) South-east D) East

21. What is the standard form of the complex numbers z_1^2/z_2 , where $z_1 = -1+2i$ and $z_2 = 2-3i$
- A) $\frac{1}{2} - \frac{13}{6}i$ B) $\frac{6}{13} - \frac{17}{13}i$ C) $\frac{13}{6} - \frac{17}{6}i$ D) $\frac{17}{13} - \frac{6}{13}i$
22. The solution for the equation $\frac{dx}{dt} - 4x = 0$ for which $x=2$ when $t=1$ is
- A) $4e^{2(t-1)}$ B) $2e^{2(t-1)}$ C) $4e^{4(t-1)}$ D) $2e^{4(t-1)}$
23. What is the minimum value of the function $f(x) = x(x-1)(x-2)$ on the interval $[0,3]$
- A) $-3/3\sqrt{3}$ B) $-4/2\sqrt{3}$ C) $-2/3\sqrt{3}$ D) $-4/3\sqrt{3}$
24. What is the value of $\int_{(1/2)-y}^{(1/2)+y} \frac{2x-1}{x(1-x)} dx$, for $0 < y < 1/2$
- A) 0 B) 1 C) $1/2$ D) 2
25. A 4 digit PIN is selected. What is the probability that there are no repeated digits?
- A) 0.400 B) 0.600 C) 0.504 D) 0.510



JADAVPUR UNIVERSITY

TO BE FILLED BY THE CANDIDATE USING BLUE/BLACK BALL POINT PEN

ANSWER SHEET

DATE OF EXAMINATION

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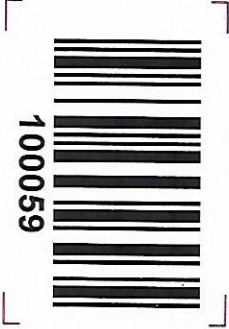
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PHYSICALLY DISABLED	
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QUESTION BOOKLET SERIES	
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DATE OF BIRTH			



FILLING INSTRUCTIONS

- Use only Blue/Black Ball Point Pen for filling the circles.
- Please do not make any stray/extraneous marks on the answer sheet. Rough work must not be done on the answer sheet.
- Do not damage by erasing the sheet.
- Mark should be dark and completely fill the circle.
- Mark the marks only in the spaces provided. Please do not mark any stray marks on the answer sheet.
- Darken only one circle for each question as shown in the example below. No marks will be awarded for multiple response/answer for single question.
- No candidate can leave the examination hall before completion of the examination.
- Any mistake in darkening the Roll No. circles will lead to loss of identity of the candidate and merit position.

EXAMPLE FOR SHADING

Correct Shading (A) (B) ● (D) Incorrect Shading (A) (B) (C) (D)

ANSWERS

1 (A) (B) (C) (D)	6 (A) (B) (C) (D)	11 (A) (B) (C) (D)	16 (A) (B) (C) (D)	21 (A) (B) (C) (D)
2 (A) (B) (C) (D)	7 (A) (B) (C) (D)	12 (A) (B) (C) (D)	17 (A) (B) (C) (D)	22 (A) (B) (C) (D)
3 (A) (B) (C) (D)	8 (A) (B) (C) (D)	13 (A) (B) (C) (D)	18 (A) (B) (C) (D)	23 (A) (B) (C) (D)
4 (A) (B) (C) (D)	9 (A) (B) (C) (D)	14 (A) (B) (C) (D)	19 (A) (B) (C) (D)	24 (A) (B) (C) (D)
5 (A) (B) (C) (D)	10 (A) (B) (C) (D)	15 (A) (B) (C) (D)	20 (A) (B) (C) (D)	25 (A) (B) (C) (D)