NPAT-Style Practice Paper

Questions with Answer Key and Solutions

Total Questions	35
Sections	Quantitative | Reasoning | English
Suggested Time	60 minutes
Marking (practice)	+1 correct, -0.25 wrong, 0 unattempted

Note: The official NPAT papers are copyrighted by NMIMS and are not reproduced here. These are original questions written in the style and topic mix of NPAT (quantitative, reasoning, English). Always confirm the current exam pattern, marking scheme and syllabus on the official NMIMS website.

Section A: Quantitative and Numerical Ability

Q1. If 3x + 7 = 25, what is the value of x?
(A) 5
(B) 6
(C) 7
(D) 8

Q2. What is 20% of 450 plus 15% of 200?
(A) 110
(B) 120
(C) 130
(D) 140

Q3. A train covers 360 km in 4 hours. At the same speed, how long will it take to cover 540 km?
(A) 5 h
(B) 5.5 h
(C) 6 h
(D) 7 h

Q4. Two numbers are in the ratio 3 : 5 and their sum is 160. What is the smaller number?
(A) 48
(B) 60
(C) 64
(D) 100

Q5. Find the compound interest on Rs. 10,000 at 10% per annum for 2 years (compounded annually).
(A) Rs. 2,000
(B) Rs. 2,100
(C) Rs. 2,200
(D) Rs. 2,400

Q6. The average of 5 numbers is 24. If one number, 36, is removed, what is the average of the remaining four?
(A) 20
(B) 21
(C) 22
(D) 23

Q7. What is the sum of the squares of the roots of $x^2 - 5x + 6 = 0$?
(A) 11
(B) 12
(C) 13
(D) 15

Q8. Find the area of a circle of radius 7 cm. (Use pi = 22/7)
(A) 144 cm^2
(B) 154 cm^2
(C) 164 cm^2
(D) 176 cm^2

Q9. Pipe A fills a tank in 12 hours and Pipe B in 18 hours. Working together, how long will they take?
(A) 6 h
(B) 7.2 h
(C) 7.5 h
(D) 8 h

Q10. What is the value of $\log_2 64 + \log_3 81$?

(A) 8
(B) 9
(C) 10
(D) 12

Q11. An article bought for Rs. 800 is sold for Rs. 920. What is the profit percentage?

(A) 12%
(B) 14%
(C) 15%
(D) 18%

Q12. Two fair dice are rolled. What is the probability that the sum is 7?

(A) 1/12
(B) 1/6
(C) 1/9
(D) 5/36

Section B: Reasoning and General Intelligence

Q13. Find the next term: 2, 6, 12, 20, 30, ?

(A) 36
(B) 40
(C) 42
(D) 48

Q14. Find the next term: 3, 6, 11, 18, 27, ?

(A) 36
(B) 38
(C) 40
(D) 45

Q15. If CAT is coded as 24 (using A=1, B=2, ... so C+A+T = 3+1+20), what is the code for DOG?

(A) 24
(B) 26
(C) 28
(D) 30

Q16. Pointing to a man, Riya says, "He is the son of my mother's only brother." How is the man related to Riya?

(A) Brother
(B) Cousin
(C) Nephew
(D) Uncle

Q17. Ravi walks 5 km north, turns right and walks 3 km, then turns right again and walks 5 km. How far and in which direction is he from the starting point?

(A) 3 km east
(B) 3 km west
(C) 5 km south
(D) 8 km east

Q18. Choose the odd one out: Mango, Apple, Potato, Banana

(A) Mango
(B) Apple
(C) Potato
(D) Banana

Q19. Statements: All pens are books. Some books are bags.
I. Some pens are bags. II. Some bags are books.
Which conclusion(s) follow?

(A) Only I
(B) Only II
(C) Both I and II
(D) Neither I nor II

Q20. Doctor : Hospital :: Teacher : ?

(A) Book
(B) School
(C) Student
(D) Chalk

Q21. Aman ranks 12th from the top in a class of 40. What is his rank from the bottom?

(A) 27
(B) 28
(C) 29
(D) 30

Q22. What is the angle between the hour and minute hands of a clock at 3:00?

(A) 60 degrees
(B) 90 degrees
(C) 120 degrees
(D) 180 degrees

Q23. Find the next letter: A, C, F, J, O, ?

(A) S
(B) T
(C) U
(D) V

Q24. If the 5th of a month falls on a Monday, what day is the 26th of that month?

(A) Sunday
(B) Monday
(C) Tuesday
(D) Wednesday

Section C: English Proficiency

Q25. Choose the synonym of ABUNDANT.
(A) Scarce
(B) Plentiful
(C) Tiny
(D) Weak

Q26. Choose the antonym of SCARCE.
(A) Rare
(B) Limited
(C) Plentiful
(D) Meagre

Q27. Spot the error: "Each of the students have submitted their assignments."
(A) Each of the students
(B) have submitted
(C) their assignments
(D) No error

Q28. What does the idiom "break the ice" mean?
(A) Break something frozen
(B) Ease tension and start a conversation
(C) End an argument
(D) Feel very cold

Q29. One word for a person who loves books:
(A) Bibliophile
(B) Philanthropist
(C) Misanthrope
(D) Linguist

Q30. Fill in the blank: Neither of the answers ___ correct.
(A) are
(B) is
(C) were
(D) have been

Q31. Choose the correctly spelt word.
(A) Acommodation
(B) Accomodation
(C) Accommodation
(D) Acomodation

Q32. Fill in the blank: He is good ___ mathematics.
(A) in
(B) on
(C) at
(D) for

Q33. Change to passive voice: "The chef cooked the meal."
(A) The meal is cooked by the chef.
(B) The meal was cooked by the chef.
(C) The meal had cooked the chef.
(D) The chef was cooked by the meal.

Q34. Passage: Rahul woke up early every morning to practise running before school. Although his friends often teased him for giving up sleep, he stayed committed to his routine. After two years of discipline, he won the district championship.

What is the main idea of the passage?

(A) Luck decides success
(B) Consistent effort leads to success
(C) Friends are unkind
(D) Sleep is unimportant

Q35. According to the passage, what did Rahul do despite being teased?

(A) Quit running
(B) Stayed committed to his routine
(C) Changed schools
(D) Slept more

Answer Key

Q1: B	Q2: B	Q3: C	Q4: B	Q5: B	Q6: B
Q7: C	Q8: B	Q9: B	Q10: C	Q11: C	Q12: B
Q13: C	Q14: B	Q15: B	Q16: B	Q17: A	Q18: C
Q19: B	Q20: B	Q21: C	Q22: B	Q23: C	Q24: B
Q25: B	Q26: C	Q27: B	Q28: B	Q29: A	Q30: B
Q31: C	Q32: C	Q33: B	Q34: B	Q35: B	

Detailed Solutions

Section A: Quantitative and Numerical Ability

Q1. Answer: (B) 6

3x = 25 - 7 = 18, so x = 6.

Q2. Answer: (B) 120

20% of 450 = 90; 15% of 200 = 30; total = 120.

Q3. Answer: (C) 6 h

Speed = 360/4 = 90 km/h. Time = 540/90 = 6 hours.

Q4. Answer: (B) 60

One part = 160/8 = 20. Smaller number = 3 x 20 = 60.

Q5. Answer: (B) Rs. 2,100

Amount = 10000 x $(1.1)^2$ = 12,100. CI = 12,100 - 10,000 = Rs. 2,100.

Q6. Answer: (B) 21

Total = 5 x 24 = 120. Remaining total = 120 - 36 = 84. Average = 84/4 = 21.

Q7. Answer: (C) 13

Roots are 2 and 3. Sum of squares = 4 + 9 = 13. (Check: 5^2 - 2 x 6 = 13.)

Q8. Answer: (B) 154 cm^2

Area = (22/7) x 7 x 7 = 154 cm^2.

Q9. Answer: (B) 7.2 h

Combined rate = 1/12 + 1/18 = 5/36 per hour. Time = 36/5 = 7.2 hours.

Q10. Answer: (C) 10

$\log_2 64 = 6$ ($2^6 = 64$) and $\log_3 81 = 4$ ($3^4 = 81$). Sum = 10.

Q11. Answer: (C) 15%

Profit = 120. Profit % = (120/800) x 100 = 15%.

Q12. Answer: (B) 1/6

Favourable outcomes: (1,6),(2,5),(3,4),(4,3),(5,2),(6,1) = 6. Total = 36. P = 6/36 = 1/6.

Section B: Reasoning and General Intelligence

Q13. Answer: (C) 42

Terms are n(n+1): 1x2, 2x3, 3x4, 4x5, 5x6, so next is 6 x 7 = 42.

Q14. Answer: (B) 38

Differences are 3, 5, 7, 9, so the next difference is 11. 27 + 11 = 38.

Q15. Answer: (B) 26

D + O + G = 4 + 15 + 7 = 26.

Q16. Answer: (B) Cousin

Mother's brother is Riya's maternal uncle. His son is Riya's cousin.

Q17. Answer: (A) 3 km east

North 5, east 3, south 5: the north and south movements cancel, leaving him 3 km east of the start.

Q18. Answer: (C) Potato

Mango, apple and banana are fruits; potato is a vegetable (tuber).

Q19. Answer: (B) Only II

'Some books are bags' converts to 'Some bags are books', so II follows. Pens and bags need not overlap, so I does not follow.

Q20. Answer: (B) School

A doctor works in a hospital; a teacher works in a school.

Q21. Answer: (C) 29

Rank from bottom = 40 - 12 + 1 = 29.

Q22. Answer: (B) 90 degrees

At 3:00 the hands are 3 hour-marks apart: 3 x 30 = 90 degrees.

Q23. Answer: (C) U

Positions are 1, 3, 6, 10, 15 (gaps 2, 3, 4, 5), next gap is 6, giving 21 = U.

Q24. Answer: (B) Monday

26 - 5 = 21 days, which is exactly 3 weeks, so the day is again Monday.

Section C: English Proficiency

Q25. Answer: (B) Plentiful

Abundant means existing in large quantities, i.e. plentiful.

Q26. Answer: (C) Plentiful

Scarce means insufficient; its opposite is plentiful. The other options are synonyms.

Q27. Answer: (B) have submitted

'Each' is singular, so the verb should be 'has submitted'.

Q28. Answer: (B) Ease tension and start a conversation

To break the ice is to make people comfortable at the start of a social situation.

Q29. Answer: (A) Bibliophile

A bibliophile is a lover or collector of books.

Q30. Answer: (B) is

'Neither' takes a singular verb, so 'is'.

Q31. Answer: (C) Accommodation

The correct spelling has double 'c' and double 'm': accommodation.

Q32. Answer: (C) at

The correct collocation is 'good at' a subject.

Q33. Answer: (B) The meal was cooked by the chef.

Simple past active becomes 'was/were + past participle' in passive voice.

Q34. Answer: (B) Consistent effort leads to success

Rahul's steady routine eventually earned him a championship, so the theme is that consistent effort pays off.

Q35. Answer: (B) Stayed committed to his routine

The passage states he stayed committed to his routine.