

UMT Entry Test Sample

BS Engineering Programs Sample Test

Name: _____ Program: _____

Reference No: _____ Mobile No: _____

Total Marks: 60 Time Allowed: 60 minutes Each Question = 1 Mark

Section A – English (15 Questions)

1. The synonym of "brave" is:

- a) Timid
- b) Courageous
- c) Weak
- d) Nervous

2. The antonym of "expand" is:

- a) Grow
- b) Contract
- c) Stretch
- d) Increase

3. Choose the correctly spelled word:

- a) Neccessary
- b) Necessary
- c) Necesary
- d) Neccesary

4. Choose the correct sentence:

- a) He don't like coffee.
- b) He doesn't like coffee.
- c) He not like coffee.
- d) He isn't liking coffee.

5. The idiom "to spill the beans" means:

- a) To cook a meal
- b) To reveal a secret
- c) To waste food
- d) To make a mess

6. Choose the correct preposition: She is afraid ____ spiders.

- a) of
- b) from
- c) with
- d) at

7. Identify the part of speech of the underlined word: "He ran quickly."

- a) Noun
- b) Verb
- c) Adverb
- d) Adjective

8. Choose the passive voice of: "She wrote the letter."

- a) The letter wrote her.
- b) The letter was written by her.
- c) The letter is written by her.
- d) The letter has written by her.

9. Choose the correct past tense of 'go':

- a) goes
- b) going
- c) went
- d) gone

10. The superlative degree of "tall" is:

- a) Taller
- b) Tallest
- c) More tall
- d) Most tall

11. One word for "a person who paints pictures":

- a) Sculptor
- b) Artist
- c) Author
- d) Musician

12. Choose the correct article: He studies at ____ university.

- a) a
- b) an
- c) the
- d) no article

13. Complete the analogy: Pen : Write :: Knife : ____

- a) Sharp
- b) Cut
- c) Kitchen
- d) Metal

14. Choose the correct conditional: If I study hard, I ____ pass.

- a) will
- b) would
- c) had
- d) am

15. Identify the figure of speech: "Time is money."

- a) Simile
- b) Metaphor
- c) Personification
- d) Alliteration

Section B – Mathematics (10 Questions)

16. What is 15% of 200? _____
17. A sum of Rs. 2,000 is invested at 4% simple interest for 3 years. Calculate the interest. _____
18. The ratio of two numbers is 4:5. If the smaller number is 20, find the larger number. _____
19. Solve for x: $3x - 5 = 16$ _____
20. Find the square root of 169. _____
21. If $x = 4$, find the value of $3x - 2$. _____
22. Simplify: $3^2 \times 2$ _____
23. Find the average of 10, 20, and 30. _____
24. Find the LCM of 4 and 5. _____
25. A bus travels at 50 km/h for 3 hours. Find the distance covered. _____

Section C – General Knowledge (10 Questions)

26. Which is the largest city of Pakistan by population?

- a) Lahore
- b) Karachi
- c) Faisalabad
- d) Islamabad

27. The Badshahi Mosque is located in:

- a) Karachi
- b) Multan
- c) Lahore
- d) Peshawar

28. Which is the longest river in Pakistan?

- a) Jhelum
- b) Chenab
- c) Ravi
- d) Indus

29. Who was the first Prime Minister of Pakistan?

- a) Liaquat Ali Khan
- b) Quaid-e-Azam
- c) Ayub Khan
- d) Zulfiqar Ali Bhutto

30. The provincial capital of Sindh is:

- a) Hyderabad
- b) Karachi
- c) Sukkur
- d) Larkana

31. UN stands for:

- a) United Nations
- b) United Nationalities
- c) Unified Nations
- d) United Newstates

32. One Pakistani rupee is divided into 100:

- a) Cents
- b) Paisas
- c) Dimes
- d) Annas

33. Which desert is located in Pakistan?

- a) Sahara
- b) Gobi
- c) Thar
- d) Kalahari

34. The national tree of Pakistan is:

- a) Deodar
- b) Oak
- c) Pine
- d) Banyan

35. Which of these is a neighboring country of Pakistan?

- a) Iran
- b) Turkey
- c) Egypt
- d) Iraq

Section D – Analytical Reasoning (10 Questions)

36. Series: 10, 20, 30, 40, _____

37. Series (Fibonacci): 1, 1, 2, 3, 5, _____

38. If FISH is coded as GJTI, how is BIRD coded? _____

39. Which does not belong: Square, Circle, Triangle, Apple _____

40. Find the missing number: 3, 6, 9, 12, _____

41. If 6 pens cost Rs. 60, how much do 10 pens cost? _____

42. A is the father of B. B is the father of C. How is A related to C? _____

43. Complete the analogy: Water : Drink :: Bread : _____

44. If today is Monday, what day will it be after 3 days? _____

45. Which of these numbers is prime: 21, 22, 23, 24? _____

Section E – Mathematics & Physics (15 Questions)

46. Speed is calculated as distance divided by: _____
47. What is the SI unit of electric current? _____
48. State Ohm's Law in terms of V, I, and R. _____
49. State Newton's Second Law of Motion (formula). _____
50. What is the SI unit of energy? _____
51. Convert 1 kilometre to metres. _____
52. Find the area of a circle with radius 7 cm (use $\pi = 22/7$). _____
53. Solve for the positive root: $2x^2 = 8$ _____
54. What is the approximate value of acceleration due to gravity (g)? _____
55. Which of these is a vector quantity: speed or velocity? _____
56. What is the value of $\log_{10}(100)$? _____
57. What is the boiling point of water at sea level in Celsius? _____
58. Find the hypotenuse of a right triangle with legs 3 cm and 4 cm. _____
59. What is the chemical formula of water? _____
60. If a car accelerates from 0 to 20 m/s in 4 seconds, find its acceleration. _____

— End of Sample Test —