

**PGCET- MCA Entrance Question Bank**

**PART - A**

**(One Mark Questions)**

1. The following is used to connect components in a computer system  
(a) van (b) car  
(c) bus (d) None of these
2. 'IR' stands for  
(a) Instruction Register  
(b) Instrument Register  
(c) Information Register (d) Invalid Register
3. Maximum number of unique characters that can be represented using ASCII format is  
(a) 127 (b) 128  
(c) 255 (d) 256
4. Pick the odd one out :  
(a) COBOL (b) dBase  
(c) ORACLE (d) MS-Access
5. Supply the appropriate question-tag :  
She signs well ..... ?  
(a) Does she (b) Doesn't she  
(c) Isn't she (d) Hasn't she
6. A philanthropist is  
(a) One who hates mankind  
(b) One who lives films  
(c) One who loves mankind  
(d) One who loves comfort
7. A number of ships or cars is called a  
(a) swarm (b) bevy  
(c) constellation (d) fleet
8. The interjection, 'wow' expresses  
(a) grief (b) pain

- (c) great surprise                      (d) recognition
9. All the proper nouns begin with .....
- (a) Colon                                      (b) capital letter  
(c) small letter                              (d) hyphen
10. She can sing film songs, 'Can' indicates
- (a) futurity                                      (b) probability  
(c) ability                                      (d) obligation
11. Which of the following is a multiuser operating system ?
- (a) PC-DOS                                      (b) MS-DOS  
(c) LINUX                                      (d) None
12. Printer is a .....
- (a) input device                              (b) cache memory  
(c) both input and output device      (d) Output device
13. In the floating point number  $0.1 \times 10^{-12}$ , 0.1 is
- (a) mantissa                                      (b) exponent  
(c) base                                      (d) None
14. 2's complement of 0100 is
- (a) 1011                                      (b) 1100  
(c) 0101                                      (d) None
15. When all the observations are same, then variation between A.M., G.M., and H.M. is
- (a)  $AM=GM=HM$                               (b)  $AM<GM<HM$   
(c)  $AM<HM<GM$                               (d)  $GM<AM<HM$
16. If  $A \subset B$ , then probability  $P(A|B)$  is equal to :
- (a) 0                                      (b) 1  
(c) 1/2                                      (d)  $P(A)/P(B)$
17. If the first quartile  $Q_1=15$  and third quartile  $Q_3=25$ , the co-efficient of quartile deviation is :
- (a) 4                                      (b) 1/4  
(c) 5/3                                      (d) 3/5
18. If a random variable X has the following probability distribution :
- X :    -1    -2    1    2

Prob :  $1/3$   $1/6$   $1/6$   $1/3$

Then  $E(X)$  is

- (a)  $3/2$  (b)  $1/6$   
(c)  $1/2$  (d) None

19. The mean and variance of a binomial distribution are 8 and 4 respectively, Then  $P(X=1)$  is  
(a)  $(1/2)^{12}$  (b)  $(1/2)^8$   
(c)  $(1/2)^6$  (d)  $(1/2)^4$
20. If the coefficient of correlation between two variables X and Y,  $\rho=1$ , then the angle between the two lines of regression is :  
(a)  $0^\circ$  (b)  $90^\circ$   
(c)  $60^\circ$  (d)  $30^\circ$
21. If you convert the decimal number 32 into binary number, how many 1s are there in the binary number?  
(a) 2 (b) 5  
(c) zero (d) 1
22. The binary equivalent of  $(A)_{16}$  is  
(a) 1010 (b) 1011  
(c) 1110 (d) None
23. The decimal equivalent of  $(1A)_{16}$  is  
(a) 31 (b) 26  
(c) 32 (d) None
24. The sum of two binary numbers 111 and 101 is  
(a) 1000 (b) 1110  
(c) 1100 (d) None
25. 'A' and 'B' can do a piece of work in 8 days which 'A' alone can do in 12 days. In how many days can 'B' alone do the same work  
(a) 24 days (b) 16 days  
(c) 20 days (d) 18 days
26. The average temperature of Monday, Tuesday, Wednesday and Thursday was 38 degrees and that of Tuesday, Wednesday, Thursday and Friday was 40 degrees. If the temperature of Monday was 30 degrees, the temperature of Friday was  
(a) 40 degrees (b) 39 degrees

- (c) 38 degrees                      (d) 30 degrees
27. In the question below, there is some relationship between the first two groups of letters. The same relationship obtains between the third group of letters and one of the four alternative letter groups. Pick the correct alternative.  
PNDY : QMEX :: JRSF : ?
- (a) KQRE                              (b) KSTE  
(c) KSRE                              (d) KQTE
28. Anil travels 4 miles towards north. He turns to the left and travels 6 miles. Then he turns right and travels 4 miles. How far is he from the starting point ?
- (a) 5 miles                              (b) 6 miles  
(c) 10 miles                              (d) 8 miles
29. The difference between the square of any two consecutive integers is equal to
- (a) An even number  
(b) Difference of two numbers  
(c) Product of two numbers  
(d) Sum of two numbers
30. If in a certain code language, '123' means 'bright little boy', '145' means 'tall big boy' and '637' means 'beautiful little flower' then which digit in that language means 'bright' ?
- (a) 1                                      (b) 3  
(c) 4                                      (d) 2
31. Subtracting  $(1111)_2$  from  $(10000)_2$  we get
- (a) 1111                              (b) 11111  
(c) 1000                              (d) None
32. Expansion of http is
- (a) hypertext transport protocol  
(b) hypertech transport protocol  
(c) hypertext transmission protocol  
(d) None of these
33. Expand MSI
- (a) Medium Scale Industry  
(b) Medium Scale Integration  
(c) Medium Span Industry

- (d) None
34. In the following groups of words, one is spelt wrongly. Identify the wrong word.
- (a) illiterete                      (b) illegal  
(c) illogical                        (d) illegible
35. NSE is
- (a) National Stock Exchange  
(b) NATO Stock Exchange  
(c) National Stock Election  
(d) National Shares Exchange
36. WIMAX is related to which one of the following ?
- (a) Biotechnology  
(b) Space technology  
(c) Missile technology  
(d) Communication technology
37. Which one of the following is not a drug / pharma company
- (a) Chevron                        (b) Nicholas Piramal  
(c) Pfizer                            (d) Zydus Cadila
38. A straight road runs from north to south, it has two turnings towards east and three turnings towards west. In how many ways can a person coming from east get on the road and go west
- (a) 2                                (b) 3  
(c) 9                                (d) 6
39. Find out the missing number in the series below :
- 1, 3 , 7, 15, ?, 63
- (a) 30                                (b) 25  
(c) 31                                (d) 24
40. My mother is twice as old as my sister and my father is 24 years older than me. At the time of my sister's birth, I was 5. My sister is 25 now. What is the difference in the age of my parents ?
- (a) 3 years                        (b) 4 years  
(c) 5 years                        (d) 6 years
41. Advise is



51. Choose the appropriate article : Character is ..... density  
(a) an (b) a  
(c) the (d) None
52. Choose the right preposition :  
She lives \_\_\_\_\_ Bangalore  
(a) at (b) by  
(c) in (d) within
53. Choose the suitable verb :  
Boys \_\_\_\_\_ kites  
(a) will files (b) files  
(c) none (d) fly
54. 'To let the cat out of the bag' means  
(a) to reveal a secret (b) to cause an outburst  
(c) to disclose fully (d) to get ruined
55. Total number of divisors of 200 are  
(a) 10 (b) 6  
(c) 12 (d) 5
56. What principal would yield a simple interest of Rs. 25, invested at 5% for 3 months ?  
(a) 1000 (b) 3000  
(c) 2000 (d) 4000
57. The value of  $i$  is  
(a) 2 (b)  $3+i$   
(c) 1 (d) -1
58. The value of  $\sin + \cos - \tan (45^\circ)$  is  
(a) 0 (b) 1  
(c) 2/ (d) 3
59. In which place Karnataka, will the Central University be set up  
(a) Gulbarga (b) Mysore  
(c) Dharwad (d) Hubli
60. Who won the men's French Open 2009 Championship

- (a) Rafal Nadal                      (b) Roger Federer  
(c) Andri Agassi                      (d) Pete Sampras

PART - B

(Two Mark Questions)

61. MSB is  
(a) Most Significant Bit  
(b) Maximum Significant Bit  
(c) Most Scientific Bit  
(d) Maximum Scientific Bit
62. Google is a  
(a) Database                      (b) Search Engine  
(c) Programming language (d) Opening System
63. Introducing a woman a man said "Her Father's" only son is my father". How is the man related to the woman  
(a) Father                      (b) Son  
(c) Uncle                      (d) Nephew
64. A three digit number consists of 9, 5 and one more number. When these digits are reversed and then subtracted from the original number the answer yielded will be consisting of the same digits arranged yet in a different order. What is the other digit ?  
(a) 4                      (b) 3  
(c) 2                      (d) 1
65. If the circle  $9x^2+9y^2=16$  cuts the x-axis at (a, 0) and (-a, 0) then a is  
(a)  $\pm 2/3$                       (b)  $\pm 3/4$   
(c)  $\pm 1/4$                       (d)  $\pm 4/3$
66. Equation of the parabola whose vertex is (-2, 0) and directrix  $x = 1$  is  
(a)  $y^2 = -2(x+2)$                       (b)  $y^2 = -4(x+3)$   
(c)  $y^2 = -6(x-5)$                       (d)  $y^2 = -12(x+2)$
67. From a point 100 metres above the ground, the angles of depression of two objects due south on the ground are  $60^\circ$  and  $45^\circ$ . The distance between the objects is  
(a) mts                      (b) mts  
(c) mts                      (d) None of these



68. The greatest angle of  $\Delta ABC$  whose sides are  $a=5$ ,  $b=5$  and  $c=5$ , is  
(a)  $45^\circ$  (b)  $100^\circ$   
(c)  $120^\circ$  (d)  $60^\circ$
69. The value of  $\log_7^9 \cdot \log_5^7 \cdot \log_3^5$  is  
(a) 3 (b) 2  
(c) 1 (d) None of these
70. The value of the determinant is  
(a) 100 (b) 202  
(c) 303 (d) 0
71. Area of the triangle whose two sides  $= 2i - 3j + k$ ,  $= i - j + 2k$  is  
(a) (b)  $1/2$   
(c) 2 (d) None of these
72. A man goes from his home to his office at the speed of 20 km/h and returns from his office to home at the speed of 30 km/h. His mean speed is  
(a) 24 (b) 25  
(c) 20 (d) 30
73. If the first 25% observations of a series are 20 or less and last 25% observations of a series are 50 or more, the quartile deviation is  
(a) 25 (b) 35  
(c) 15 (d) 30
74. There are two bags. One bag contains 4 red and 5 black balls and the other 5 red and 4 black balls. One ball is to be drawn from either of the two bags, the probability of drawing a black ball is  
(a) 1 (b)  $16/81$   
(c)  $1/2$  (d)  $10/81$
75. If  $A =$  , then  $A^4 + A^3 - A^2 =$   
(a) 0 (b) 1  
(c) A (d) None of these
76. Sum up to 10 terms of  $1 + 3 + 5 + 7 + \dots$  is  
(a) 100 (b) 102  
(c) 103 (d) 104

77. The roots of the quadratic equation  $x^2 + x - 1 = 0$  are
- (a) (b)  
(c) (d)
78. The length of the perpendicular drawn from the point (3, 2) on the line  $5x - 12y - 9 = 0$  is
- (a) (b)  
(c) (d) None of these
79. If the lines  $x - 6y + a = 0$ ,  $2x + 3y + 4 = 0$  and  $x + 4y + 1 = 0$  are concurrent, then the value of 'a' is
- (a) 4 (b) 8  
(c) 5 (d) 6
80. The angle between the lines represented by  $x^2 + 3xy + 2y^2 = 0$  is
- (a)  $\tan^{-1}(2/3)$  (b)  $\tan^{-1}(1/3)$   
(c)  $\tan^{-1}(3/2)$  (d) None of these