

1. The multiplicative inverse of $-3\frac{1}{3}$ is

a. <u>-3/10</u>	b. -10/3
c. 10/3	d. 3/10
2. $0.\overline{47}$ is equal to:

a. $\frac{47}{100}$	b. $\frac{40}{99}$
c. $\frac{48}{90}$	d. <u>$\frac{43}{90}$</u>
3. $\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$ is equal to:

a. 8	b. 4
c. $\sqrt{2}$	d. <u>2</u>
4. A can do a piece of work in 25 days and B can finish it in 20 days. They work together for 5 days and then A's leave. In how many days will B finish the remaining work?

a. <u>11 days</u>	b. 7 days
c. 8 days	d. 5 days
5. If the ratio of Marked Price and Selling Price of an article is 6:5, then what is the discount percentage?

a. 12.5%	b. 20.76%
c. 15%	d. <u>16.66%</u>
6. A person bought some pens at the rate of 24 for 1 rupee and sold them at the rate of 20 for 1 rupee. What is the profit percent?

a. <u>20%</u>	b. 23.5%
c. 24%	d. None of these
7. A cuboid is of dimensions $60cm \times 54cm \times 30cm$. Number of small cubes with side 6 cm can be placed in the given cuboid are:

a. 400	b. <u>450</u>
(c) 500	d. 550
8. The height of the cylinder whose volume is $1.54m^3$ and diameter of the base=140 cm is.

a. <u>1 m</u>	b. 1.5 m
c. 0.5 m	d. 2 m

Answer Key Group C

9. Convert $3\sqrt{5}$ into pure surd
- a. $\sqrt{15}$ b. $\sqrt{45}$
c. $\sqrt{35}$ d. $\sqrt{75}$
10. After how many years will a sum of money becomes 5 times at the rate of 10% p.a?
- a. 10 years b. 20 years
c. 50 years d. **40 years**
11. If Rs. 816 is divided into three parts in the ratio $(1/4): (1/2): (2/3)$. What is the first part?
- a. **144** b. 122
c. 121 d. 86
12. A fruit seller sold big, medium and small sized banana for Rs. 15, Rs. 10 and Rs. 5 respectively. The total number of banana sold were in the ratio 3:2:5. What is the average cost of a banana?
- a. Rs. 7 b. Rs. 8
c. Rs. 10 d. **Rs. 9**
13. Find the value of $3! + 2! + 1!$
- a. 5 b. 6
c. 8 d. **9**
14. The smallest number by which 180 must be multiplied so that it become a perfect square is:
- a. **5** b. 4
c. 3 d. 2
15. The value of $\sqrt{225} + \sqrt{100}$ is
- a. 15 b. 10
c. $\sqrt{22500}$ d. **25**
16. The cost of 5 oranges and 3 apples is Rs 35 and the cost of 2 oranges and 4 apples is Rs 28. The cost of an orange and an apple is:
- a. Rs 2 and Rs 10 b. **Rs 4 and Rs 5**
c. Rs 7 and Rs 8 d. None of these
17. Solve : $2\sqrt{4} + 3 - 7\sqrt{3}$
- a. $-2\sqrt{7}$ b. $2\sqrt{4} - 4\sqrt{3}$
c. **$7-7\sqrt{3}$** d. $7+7\sqrt{3}$
18. Which is greatest $\sqrt{4}$, $\sqrt[3]{4}$, $\sqrt[4]{4}$, -4 ?
- a. **$\sqrt{4}$** b. $\sqrt[3]{4}$
c. $\sqrt[4]{4}$ d. -4
19. The difference between three times and seven times of a number comes to 36. What is the number?
- a. 6 b. 8
c. **9** d. 10

Answer Key Group C

20. The area of equilateral triangle whose sides are 8 cm is:

- a. $8\sqrt{3}cm^2$ b. $24\sqrt{3}cm^2$
c. $4\sqrt{3}cm^2$ d. $16\sqrt{3}cm^2$

21. If $16a + 16b = 96$, then, the average of 'a' and 'b' is:

- a. 2 b. 3
c. 4 d. 5

22. If $3A = 2B = 4C$ then what is $A : B : C$.

- a. 3 : 2 : 4 b. 6 : 4 : 3
c. 4 : 6 : 3 d. 2 : 3 : 4

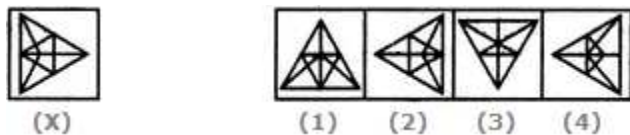
23. The mean of $1^2, 2^2, 3^2, 4^2, 5^2$ is

- a. 5 b. 7
c. 9 d. 11

24. The length of a rectangle is increase by 10% and the breadth decrease by 10%. Find the change in the new area?

- a. Neither increase nor decrease b. Increase by 10%
c. Decrease by 10% d. Decrease by 1%

25. Find out how will the key figure (X) look like after rotation.



- a. 1 b. 2
c. 3 d. 4

26. Every rational number is a -

- a. Whole number b. Real number
c. Natural number d. None of the above

27. Simplify: $-3 + 3 \div 3 + 3 - 3 + 3$

- a. 1 b. 3
c. -1 d. -3

28. Calculate $\sqrt{15 \times 163 \div 5 - 89}$

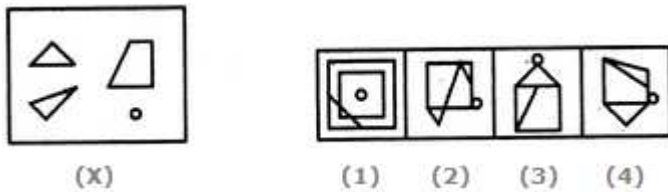
- a. 10 b. 20
c. 15 d. 25

29. Find x, if $x = \sqrt[3]{(100 + 37 - 12)}$?
a. 100
b. 25
c. 125
d. 5
30. Find the average of 2.5, 3.5, 4.5, 5.5 ?
a. 4
b. 6
c. 8
d. 2
31. Find the average of first 97 natural numbers
a. 47
b. 37
c. 48
d. 49
32. The average of 10 numbers is 60. If one number is included, the average becomes 58. Find the new number?
a. 62
b. 46
c. 54
d. 38
33. The market price of an article is Rs. 420. A shopkeeper gives a discount of 15% on the market price and still makes a profit of 19%. What is the cost price of article?
a. Rs. 250
b. Rs. 270
c. Rs. 290
d. Rs. 300
34. Two successive discount of 40% and 20% respectively on the market price of an article are equal to single discount of Rs. 988. The market price of the article is?
a. Rs. 1900
b. Rs. 2200
c. Rs. 2470
d. Rs 2070
35. Convert into percentage $\frac{5}{4}$?
a. 90%
b. 110%
c. 120%
d. 125%
36. Convert into fraction $2\frac{1}{2}\%$?
a. $\frac{5}{2}$
b. $\frac{125}{2}$
c. $\frac{1}{20}$
d. $\frac{1}{40}$
37. What percent is 360 of 600?
a. 40%
b. 30%
c. 60%
d. 20%
38. If an item is sold for Rs. 480 which was purchased for Rs. 500. Find profit% or loss%?
a. 20%
b. 10%
c. 5%
d. 4%
39. By selling toffees at 20 for a rupee, a man losses 4%. In order to gain 20% how many toffees for a rupee must he sell?
a. 16
b. 12
c. 14
d. 8

d. Rs. 67,000

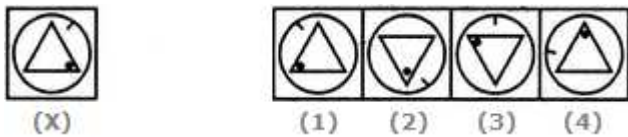
Answer Key Group C

49. Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).



- a. 1
c. 3
b. 2
d. 4

50. Find out how will the key figure (X) look like after rotation.



- a. 1
c. 3
b. 2
d. 4

**QUESTION PAPER FOR THE POST OF
ESI UNDER TRANSPORT DEPARTMENT
PAPER-II : COMPUTER KNOWLEDGE
Full mark : 100**

(All questions carry equal marks of 2 each)

1. The brain of any Computer system is
 - a. ALU
 - b. Memory
 - c. CPU
 - d. Control unit
2. Choose the wrong answer about RAM
 - a. RAM is Volatile
 - a. The Data is erased when computer is switched off
 - c. RAM is Non-Volatile
 - d. RAM is the unsung Hero of Multitasking
3. Which of the following term is used to define all input and output devices?
 - a. Hardware
 - b. Software
 - c. Interpreter
 - d. Compiler
4. A program that provides software interface to hardware devices is called
 - a. System Software
 - b. Application Software
 - c. Device Drivers
 - d. All of the Above

Answer Key Group C

5. Which of the following mobile payment application is developed by the National Payment Corporation of India based on UPI?
a. MyGOV
b. BHIM
c. GooglePay
d. UMANG
6. .txt is an extension of
a. Windows System File
b. Text file
c. Excel file
d. Software
7. What key do you pressed to open RUN command
a. Win+R
b. Alt+R
c. Shift+R
d. Ctrl+R
8. If a shortcut is renamed, File is also renamed
a. True
b. False
c. None of the above
d. A & B
9. How do you add Header and Footer
a. Go to Draw - >Header and Footer
b. Go to Insert ->Header and Footer
c. Go to Design-> Header and Footer
d. Go to Layout->Header and Footer
10. How do you add Page Number in MS Word
a. Insert ->Header and Footer
b. Layout->Page Setup
c. Design->Themes
d. References ->Footnote
11. Which of the following is the text styling features of MS Word?
a. Word Style
b. Word Design
c. Word Fond
d. Word Art
12. In what tab in MS Word Mail merge exist?
a. View
b. Reference
c. Insert
d. None of the above
13. Excel is a ____ program developed by Microsoft.
a. Spreadsheet
b. Document
c. Data management
d. All of the above
14. Rows in excel sheet is identified by
a. Letters
b. Numbers
c. Both Letter and Numbers
d. None of the above
15. The Short Cut Key for inserting a new slide is
a. Win+N
b. Ctrl+N
c. Alt+N
d. Shift+N

16. Which of the following is the default PowerPoint Layout
- a. **Title Slide**
 - b. Blank Screen
 - c. Comparison
 - d. Title Only
17. In Powerpoint, object can be copied using the following options
- a. Clipboard
 - b. Ctrl+C
 - c. Right Click on selected object
 - d. **All of the above**
18. What is the full form on internet
- a. InterContinental network
 - b. Internal network
 - c. **Interconnected network**
 - d. International Network
19. Each computer on a network is identified by a unique
- a. **IP address**
 - b. HTTP
 - c. HTTPS
 - d. www
20. In https, S means
- a. Secret
 - b. **Secure**
 - c. Socket
 - d. Software
21. What is email
- a. **A method of exchanging message via electronic devices**
 - b. Speed message transfer to location
 - c. Musical messaging services
 - d. None of these
22. Computer are classified into how many generations ?
- a. 3
 - b. 4
 - c. **5**
 - d. 6
23. Which of the following are the two main components of the CPU
- a. Control unit and registers
 - b. Registers and main memory
 - c. **Control Unit and ALU**
 - d. ALU and bus
24. MS Excel 2007 file extension is
- a. XLX
 - b. XLS
 - c. XLXS
 - d. **XLSX**
25. In ____, a master document is the one which contains the recipients of the letter with place holders for the variable information.
- a. Reference
 - b. **Mail merge**
 - c. Add-Ins
 - d. (b) and (c)

26. In powerpoint, background of the presentation can be change from_____
- a. Slide layout
 - b. Apply design
 - c. Edit slide
 - d. **Design Menu**
27. Which of the following is an input device?
- a. printer
 - b. monitor
 - c. **keyboard**
 - d. projector
28. In HTTPS, 'S' stands for:
- a. **Secure**
 - b. Simple
 - c. Server
 - d. Send
29. In MS Excel, a displays the constant values or formulae used in the Active Cell
- a. Function bar
 - b. Title bar
 - c. **Formula bar**
 - d. Status bar
30. Microsoft Word software is a good example of
- a. Computer System Software
 - b. **Application Software**
 - c. Operating System
 - d. Machine Software
31. Which option in PowerPoint allows you to create a package of your presentation for showing to another computer?
- a. Save As
 - b. **Pack and Go**
 - c. Save and Go
 - d. Web and Go
32. In MS Excel, a collection of worksheets is called.
- a. Spreadsheets
 - b. Sheets
 - c. **Workbook**
 - d. Work sheets
33. How was the generation of computer classified?
- a. **by the memory and processor**
 - b. by the speed of computer
 - c. by the model of computer
 - d. by the accuracy of computer
34. The column and row head in excel begins with and respectively.
- a. 1 and A
 - b. **A and 1**
 - c. 1 and 1
 - d. A and A
35. In excel, *Fx* represent:
- a. Insert formula
 - b. Insert Equation
 - c. **Insert Function**
 - d. All of the above

36. Microsoft provide a security features to protect Windows user from unauthorized access which is known as
- a. Antimalware
 - b. Gateway Security
 - c. Router Security
 - d. **Windows Firewall**
37. The intersection of rows and columns in MS Excel is called.....
- a. Worksheet
 - b. Spreadsheet
 - c. **Cell**
 - d. Merged Cells
38. A shortcut can be located
- a. In desktop only
 - b. in anywhere on local Disk
 - c. In the taskbar
 - d. **All of the above**
39. In MS Excel, **F2** function key is used to:
- a. **Edit cell value**
 - b. View Cell
 - c. Format Text
 - d. None of the above
40. Which is the first program loaded into computer mains memory after computer is switched on
- a. Startup Programs
 - b. Application Program
 - c. **Operating System**
 - d. None of the above
41. What is the best way to create another copy of a slide in powerpoint?
- a. Click the slide then press Ctrl+A and paste in new slide
 - b. **From New Slide tab, choose Duplicate selected Slide**
 - c. Redo everything on a new slide that you had done on previous slide
 - d. None of the above
42. Calculator provided in windows can operate in two options namely
- a. Modern and Classic
 - b. Standard and Arithmetic
 - c. Arithmetic and Logical
 - d. **Standard and Scientific**
43. In MS Word, setting a page size, orientation and margin tools are available in
- a. **Page Layout**
 - b. Page formatting
 - c. Page alignment
 - d. Page Setup
44. What is Custom Shows in PowerPoint?
- a. Use the only some parts of the monitor is called Custom Shows
 - b. The Presentation which can present only on particular date
 - c. **Creating Presentations within a Presentation**
 - d. There is no option of Custom Shows
45. In MS Word, to move to the end of the document, press the _ key(s).
- a. Down arrow
 - b. Ctrl+ Down arrow
 - c. End
 - d. **Ctrl + End**

Answer Key Group C

46. Which of the following option is not available in Insert menu?
- a. Chart
 - b. Clip Art
 - c. Word Art
 - d. **Graph**
47. In MS Word, the spelling and grammar button is found in
- a. Home Tab
 - b. insert Tab
 - c. **Review Tab**
 - d. View Tab
48. Spreadsheet is also known as
- a. MS Word
 - b. MS PowerPoint
 - c. **MS Excel**
 - d. All of the above
49. Unauthorized access to computer system or network is referred to as
- a. Cyber crime
 - b. **Hacking**
 - c. Intruding
 - d. Samali attack
50. In an email, the feature lets you send a copy of the mail to another recipient is.
- a. BCC
 - b. **CC**
 - c. MIME
 - d. SMTP