EMPLOYABILITY SKILLS

Time : 2 Hours

Max. Marks : 60

Instructions : I) Answer **all** the questions.
II) **Each** question carries **one** mark.
III) **Only** simple calculators are **allowed**.
IV) Answers should be shaded by dark circles using **blue/ black** ball point pen in the **Response** sheets provided.

1. Find the next number in the series 4, 6, 9, 13, 18,

   A) 23　　　　　　　　　　　B) 24

   C) 25　　　　　　　　　　　D) 26

2. Find the next number in the series 2, 6, 12, 20, 30,

   A) 36　　　　　　　　　　　B) 40

   C) 42　　　　　　　　　　　D) 38

3. In the number 257368 the face value of 7 and place value of 7 are

   A) 7 and 7000　　　　　　　B) 7000 and 7

   C) 7 and 1000　　　　　　　D) 1000 and 7

4. Find LCM of 12 and 20.

   A) 60　　　　　　　　　　　B) 120

   C) 240　　　　　　　　　　 D) 30

P.T.O.

5. HCF and LCM of two numbers are 3 and 60. One number is 12. Find the other number

A) 20

B) 30

C) 12

D) 15

6. The value of $\sqrt{2.56}$ is

A) 1.6

B) 2.6

C) 1

D) 1.5

7. Cube root of 343 is

A) 13

B) 7

C) 23

D) 17

8. Simplify $5^{25} \div 125^{8}$.

A) 125

B) 25

C) 5

D) 1

9. An accurate clock shows 8 O'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 O'clock in the afternoon ?

A) 144°

B) 150°

C) 168°

D) 180°

10. Solve for x and y, if $4x + 3y = 25$, $x + 5y = 19$.

A) (3,4)

B) (4,3)

C) (2,1)

D) (9,2)

11. Find X when 5% of X is 1000.

A) 200

B) 50

C) 2,000

D) 20,000

12. Today is Sunday. After 65 days it will be

   A) Sunday   B) Monday

   C) Tuesday   D) Wednesday

13. A shopkeeper made a profit of 20% on cost of an article which is sold for ₹ 2,400. The cost price of the article is

   A) ₹ 2,000   B) ₹ 2,200

   C) ₹ 2,600   D) ₹ 2,800

14. The interest to be paid on a loan of 3000 at simple interest of 5% per year for 5 years is

   A) 300   B) 150

   C) 750   D) 1500

15. The last digit in 5^{2023} is

   A) 5   B) 1

   C) 0   D) 3

16. The sum of two numbers is 60 and their difference is 6. What is the ratio of the two numbers ?

   A) 11 : 9   B) 4 : 3

   C) 12 : 7   D) 13 : 6

17. A alone can complete a work in 12 days. A and B together can complete it in 8 days. How long will B alone take to complete the work ?

   A) 20 Days   B) 16 Days
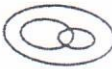
   C) 24 Days   D) 18 Days

18. Three pipes A, B and C can fill a tank in 6 minutes, 8 minutes and 12 minutes, respectively. The pipe C is closed 6 minutes before the tank is filled. In what time will the tank be full ?

    A) 2 mins.   B) 6 mins.

    C) 8 mins.   D) 4 mins.

19. A train starts from a place A at 6 a.m. and arrives at another place B at 4.30 p.m. on the same day. If the speed of the train is 40 km per hour, find the distance travelled by the train.

    A) 400 km   B) 320 km

    C) 240 km   D) 420 km

20. The length of the bridge, in which a train 130 metres long and travelling at 45 km/hour can cross in 30 seconds, is

    A) 200 metres   B) 225 metres

    C) 245 metres   D) 250 metres

21. The speed of a boat when travelling downstream is 32 km/hr whereas when travelling upstream is 28 km/hr. What is the speed of the boat in still water ?

    A) 30 km/hr   B) 28 km/hr

    C) 32 km/hr   D) 34 km/hr

22. In how many different ways can the letters of the word 'FIGHT' be arranged ?

    A) 50   B) 5   C) 120   D) 4

23. In a throw of a coin, the probability of getting a head.

    A) $\dfrac{1}{2}$ B) $\dfrac{1}{3}$ C) $\dfrac{1}{4}$ D) $\dfrac{1}{6}$

24. The ratio of two numbers is 3:4. If 2 is added to both the numbers, then the ratio becomes 7:9. The numbers are

A) 8 and 12

B) 12 and 16

C) 4 and 6

D) 15 and 20

25. 5 men prepare 10 toys in 6 days by working 6 hrs. a day. In how many days can 12 men prepare 16 toys by working 8 hrs. a day ?

A) 6 Days

B) 9 Days

C) 4 Days

D) 3 Days

26. An athlete runs 200 metres race in 24 seconds. His speed (in km / hour) is

A) 30

B) 28.5

C) 24

D) 20

27. A train running at the speed of 60 km/hour crosses a pole in 9 seconds. What is the length of the train ?

A) 120 meters

B) 180 metres

C) 324 meters

D) 150 meters

28. In how many ways can a cricket team of eleven be chosen out of 14 players ?

A) 634

B) 364

C) 346

D) 463

29. When an unbiased die is tossed, the probability of getting multiple of 3 is

A) $\dfrac{1}{2}$

B) $\dfrac{1}{3}$

C) $\dfrac{1}{4}$

D) 1

30. What is the difference between compound interest and simple interest for 2 years on the sum of 1000 at 10% per annum ?

A) 100

B) 50

C) 10

D) 200

31. In a certain code language, the word PARTNER is coded as TRAPREN. how will FOUNDER be coded in the same language

A) NOUFDER

B) NUOFRED

C) FOUNRED

D) OFNUEDR

32. Pointing towards a photograph Mr. Sharma said " She is the only daughter of mother of my brother's sister". How is Mr. Sharma related to the lady in the photograph ?

A) Cousin

B) Mother

C) Sister

D) Aunt

33. Deepak placed his watch on the table facing in such a way that at 6 pm the hour hand points to the south. In which direction the minute hand will point at 9 pm ?

A) North

B) West

C) South

D) East

34. Which of the following diagrams indicates the best relation between Profit. Dividend and Bonus ?

A)

B)

C)

D)

35. JAF, JEF, JIF, JOF, ?

A) JKJ

B) JUA

C) JUF

D) JDF

36. If you write down all the numbers from 1 to 100, then how many times do you write 3 ?
   A) 11
   B) 19
   C) 20
   D) 21

37. 15, 45, 75, 105, ?
   A) 125
   B) 145
   C) 175
   D) 135

38. Five friends are sitting in a bench, facing north, but necessarily in the same order. Sushma is to the immediate left to Raksha and immediate right to Bindia. Meena is right to Raksha, Teena is exactly between Raksha and Meena. Who is sitting at the right most ?
   A) Teena
   B) Meena
   C) Sushma
   D) Raksha

39. 4 : 16 : : 3 : 9 : : 8 : 64, ?
   A) 9 : 45
   B) 6 : 36
   C) 12 : 60
   D) None of the above

40. Find the correct water image of the figure.

Answer Figure

A)

B)

C)

D)
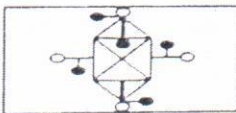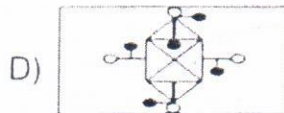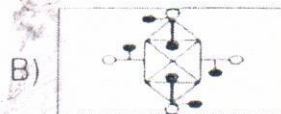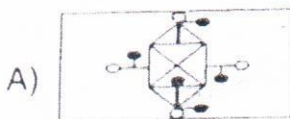
41. Choose the alternative which closely resembles the Mirror Image of the given combination.
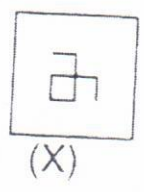
EFFECTIVE

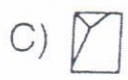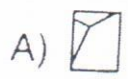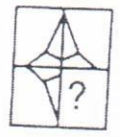A) ƎVITƆƎꟻꟻƎ

B) EVITCEFFE

C) ƎVITƆƎꟻꟻƎ

D) ƎVITƆƎꟻꟻƎ

42. Find out the alternative figure which contains Figure (X) as its part.
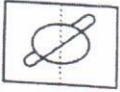

(X)

A)   B)   C)   D)
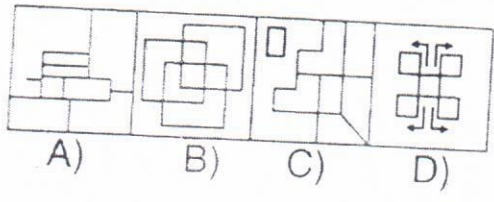
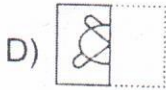43. Identify the figure that completes the pattern.
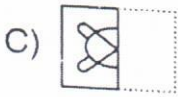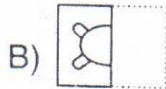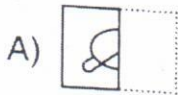

A)

B)

C)

D)

44. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.

Answer Figure

A)   B)

C)   D)

45. Bank : Interest : : School : ?

    A) Medicine

    C) Food

    B) Education

    D) Plants

46. How _____ money do you have in your pocket ?

    A) Many

    C) Much

    B) Few

    D) Some

47. Army : Logistics (choose the right pair from the given pair)

    A) Business : Strategy

    B) Soldier : Student

    C) War : Logic

    D) Team : Individual

48. The police have _____ a complaint against four persons.

    A) entered

    C) registered

    B) lodged

    D) noted

49. A sentence /a part of the sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. Incase no improvement is needed choose 'No improvement.'

He plays cricket and tennis <u>also</u>.

   A) both

   B) besides

   C) too

   D) No improvement

50. The spectacles <u>is</u> missing. (Choose the right word to replace the underlined)

   A) was

   B) are

   C) is

   D) none of the above

Directions : Read the passage carefully and answer the questions **51-56** given below.

IT billionaire and Infosys founder NR Narayana Murthy recently remarked on the work culture in India and said that if India is to match up its better-developed peers in the world like China, Japan and Germany, the youth must consider working 70 hours a week. Murthy said, "India's work productivity is one of the lowest in the world. Unless we improve our work productivity, unless we reduce corruption in the government at some level, unless we reduce the delays in our bureaucracy in taking this decision, we will not be able to compete with those countries that have made tremendous progress. He added, " This is exactly what the Germans and Japanese did after the Second World War."

Dr. Bipeenchandra Bhamre, Consultant Cardiac Surgeon at Sir HN Reliance Foundation Hospital and Research Centre in Mumbai, shared, "As a cardiologist,

The mental health expert suggested the following precautions — Taking short break b/w work. Mindfulness relaxation. Stress management techniques. Increased workplace flexibility. Set boundaries at workplace. Enhance time management skills. Healthy diet. Healthy social support. Setting priorities for health. Start seeking help for mental health for improving yourself not your problem. Explore your mean time. Follow simple basic routine. Set realistic short term goals.

51. Which of the following is not a reason mentioned by Mr. Murthy for lower work productivity in India ?

A) Lack of resources

B) Corruption in government

C) Delays in bureaucracy

D) Less working hours

52. Which are the developed countries mentioned in the passage by Mr. Murthy ?

A) China and Japan

B) USA and China

C) China, Germany and Japan

D) Germany, USA and Japan

53. What is the opinion of heart experts about the impact of long working hours on the employees ?

A) They are always stressful

B) They are not stressful

C) They are stressful if they work in their passionate field

D) They are not stressful if they work in their passionate field

54. What should we balance our profession with, according to the cardiologists ?

A) Long working hours

B) Well-being of our own selves

C) Family

D) Social life

I find Murthy's comment on the 70-days work week thought-provoking. Undoubted there are certain demanding fields/careers and the commitment of professionals to deliver their best is commendable. Busiest of us work 12 to 14 hours a day. However, it's crucial to strike a balance between dedication to our profession and the well-being of our own selves." The heart expert highlighted, "If you work in the field of your passion then working excessively long hours, such as a 70-hour work week, is not that stressful but if you are working in stressful environments can lead to burnout. In my opinion, we should focus on optimizing work hours, improving productivity and providing support systems to prevent burnout and ensure that both skilled and unskilled professionals can continue to deliver the best results in their respective fields. It's about how well you utilise most productive years in you life. It's a choice."

Shilpi Saraswat, Clinical – Psychologist at Sakra World Hospital in Bengaluru revealed, "Nowadays in our OPD, young people at the age range of 25-48 ar getting referred from different departments due to underlying stress, anxiet and mental health problems. When we encounter the details about the work-lif imbalance, lack of boundaries and long working hours without any break impa major health concerns. The spikes in blood pressure due to anxiety, stress is ve common, many are asymptomatic as well and struggle with cardiovascular issue at very early stage."

She pointed out, "Commonly they have more anxiety problems and lack of skill to deal with bad stress. Most common disorders are GAD (Generalised Anxiety Disorder), illness anxiety disorder, panic disorder, phobias etc. Long working hours put pressure and impacts quality of work and increase absenteeism at workplace which leads another issue for organisations as well as employees. T health concern is definitely rising due to stress which is increased due to long work hours, poor support facilities and no work-life balance."

55. Why employees suffer from anxiety and stress in a very young age ?

    I. Work-life imbalance

    II. Cardiovascular issues

    III. Long working hours

    A) Only I is correct   B) Only II is correct

    C) I and II are correct   D) I and III are correct

56. What precautions are suggested by the health experts to reduce work stress ?

    A) Adopt stress management techniques

    B) Improve time management skills

    C) Mindfulness relaxation

    D) All the above

Direction : In the given pie-chart, the comparative study of the production of rice, wheat, sugar and tea of a country is given. Study the pie-chart and answer the questions **57-59**.

Production

Tea 5%
Sugar 10%
Rice 55%

■ Rice ▨ Wheat ▨ Sugar ▨ Tea
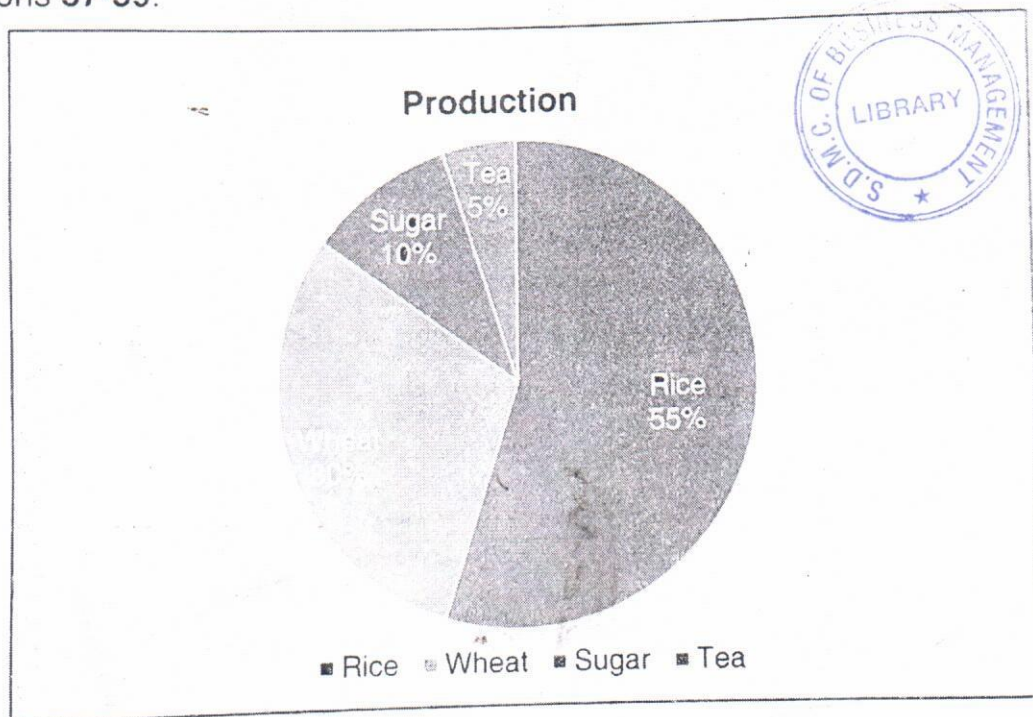
57. The Production of the Rice, Wheat, Sugar and Tea is 50,000 Kg. Find the production of Rice.

    A) 17500 kg   B) 39500 kg

    C) 27500 kg   D) 2750 kg

58. The production of rice and tea is more/greater than production of wheat by

    A) 50%

    B) 100%

    C) 75%

    D) 66.6%

59. From this diagram, the ratio of sum of wheat and sugar production to the difference in production of rice and tea is

    A) 4 : 5

    B) 5 : 4

    C) 6 : 1

    D) 1 : 6

60. **Statement :** Everybody loves reading adventurous stories.

    Assumptions : I. Adventurous stories are the only reading material.

                       II. Nobody loves reading any other material.

    A) Only assumption I is implicit

    B) Only assumption II is implicit

    C) Either I or II is implicit

    D) None of the above