### Exam Sheet Details

<table>
<thead>
<tr>
<th>Duration: 90 Minutes</th>
<th>Exam Code: DMP001</th>
</tr>
</thead>
<tbody>
<tr>
<td>समय: 90 मिनट</td>
<td>परीक्षा कोड:</td>
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<tr>
<th>No. of Pages / पृष्ठों की संख्या: 192</th>
<th>Total Marks / कुल अंक: 100</th>
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<tr>
<td>नंबर ऑफ पृष्ठ / पृष्ठों की संख्या:</td>
<td>कुल अंक:</td>
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<th>Roll No.</th>
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<tr>
<td>रोल नंबर</td>
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<tr>
<td>परीक्षा तिथि:</td>
<td>ओएआर ऑपरेन्ट शीट संख्या:</td>
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Candidate's Name / परीक्षार्थी का नाम

Candidate's Signature / परीक्षार्थी के हस्ताक्षर

***As given in application form / आवेदन पत्र में दिये गये***

### Instructions

**CANDIDATE SHOULD OPEN THE SEALS ONLY AFTER THEY ARE ASKED TO DO SO.**

एकत्रीक्षक के नेतृत्व में पहले से खोलने न करें।

The question paper is made up of the following sections as tabulated below.

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<th>Language / भाषा</th>
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<td>Kannada / कन्नड़</td>
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<td>Section-IX</td>
<td>Marathi / मराठी</td>
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<td>Section-XI</td>
<td>Telugu / तेलंगाना</td>
<td>100</td>
<td>175 to 190</td>
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**English Paragraph:** All the details given by me in the Application Form are true and complete to the best of my knowledge. I understand that I may be issued with Call Letter for the exam on the basis of above information and mere issue of call letter will not confer on me any right to be eligible for the post. I also understand that in case any of my statements are found to be untrue at any stage of recruitment or thereafter, I shall be disqualified forthwith for the post applied for and I shall be liable for any other penal action under the extant rules.

हिंदी पैराग्राफः आवेदन पत्र में मेरे हाथ द्वारा दिए गए सभी विवरण सर्वथा अविकृत जानकारी के अनुसार सच्चाई और पूर्णता है। मैं समझता / समझती हूँ कि मूल परीक्षा के लिए उपयुक्त सूचना के आधार पर कुलता पात्र जान से किया गया और केवल कुलता पात्र जान से किया गया के लिए पात्र घनी का मूल कोई अविकृत नहीं देता है। मैं यह भी समझता / समझती हूँ कि कैद में विवरण भौतिक के किसी सच्चाई पर या तकनीकी अवंती पात्र जाना है, तो मैं अपील पत्र के लिए तकनीकी निर्देश हो जाओगा / जाऊगी और मूल पत्र द्वारा निर्देशित सभी कोई अन्य दंडायक कारणों की जाना है।

Signature of invigilator / निरीक्षक के हस्ताक्षर

Centre / सेंटर

Dept. / विभागः DMP001115

8001
INSTRUCTIONS

(Please read carefully and comply)

1. After opening the seal, Candidate must check his Question Booklet for Missing Page, Missing Question Serial Number and/or Bad Printing. In such a case, Candidate must immediately contact the Invigilator.

2. Kindly read the complete set of instructions carefully and also see the instructions on the back side of the OMR Answer Sheet and fill the details in the OMR Answer Sheet and Question Booklet.

3. One paragraph each in Hindi and English is given on page 1. Copying of the paragraph (in the language as filled in the application form either in Hindi or English) in your running hand is compulsory. DO NOT USE BLOCK LETTERS.

4. (a) Question Booklet Serial No. must clearly be written and marked in the bubbles in the space provided in the OMR Answer Sheet.

   (b) OMR Sheet No. should be written in the space provided in the Question Booklet.

5. After being instructed to open the Booklet, the candidates will open the Seals. Check whether the booklet contains 100 questions and start the paper from Page No. 15.

6. The question paper comprises 100 questions available in congruent versions of English, Hindi, Urdu, Assamese, Bengali, Gujarati, Kannada, Manipuri, Marathi, Odia, Telugu. In case of any doubt or confusion, English version shall prevail.

7. All Questions are of Objective type. There is only one correct answer/best answer to each question carrying one mark. There will be negative marking for wrong answers. For every wrong answer, 1/3 mark will be deducted.

8. In the event of any mistake in any question/s, candidate will not be penalized. However, no corrections will be made in question/s during the examination.

9. You must use Blue or Black ball-point pen only for answering. Altering of answers once entered is not permissible. Enter the answers in the OMR Answer Sheet carefully.

10. Rough work, if any, may be done in the Question Booklet only in the space provided at the end of the Booklet or at any specified space. No additional paper shall be provided.

11. Use of Log tables, Calculator, Slide Rule, Mobile Phone, Pager, Digital diary or any other electronic item/instrument etc. is not allowed. Their use will result in disqualification.

12. No candidate should leave the examination hall before the final bell. The top sheet of Question Booklet as well as the Answer Sheet should be handed over to the invigilator before leaving the Examination Hall.
SECTION I
ENGLISH VERSION

1. The battle of Plassey was fought between
   (A) Mir Qasim, Shuja-ud-Daulah and East India Company
   (B) Siraj-ud-Daulah and East India Company
   (C) Haider Ali and East India Company
   (D) Tipu Sultan and East India Company

2. Lord Dalhousie introduced the first railways in 1853 which ran between
   (A) Calcutta and Bombay
   (B) Agra and Madras
   (C) Bombay and Thane
   (D) Calcutta and Agra

3. The normal term of a State Assembly (other than J & K) is
   (A) 3 years
   (B) 6 years
   (C) 5 years
   (D) 4 years

4. How long can a Presidential ordinance remain in force?
   (A) 1 year
   (B) Two months
   (C) Till the President revokes it
   (D) Six months

5. Black soil is ideal for cultivation of cotton as
   (A) its colour is black
   (B) it can retain moisture
   (C) it is made up of lava
   (D) it is found on plateau regions

6. Railway Passenger Coaches are manufactured at
   (A) Varanasi
   (B) Chittaranjan
   (C) Perambur
   (D) Kolkata

7. "Operation Flood" is related to
   (A) Milk production
   (B) Crop production
   (C) Interlinking of rivers
   (D) Cleaning of Rivers

8. The term "Bull Run" is related to
   (A) Animal race
   (B) Stock Market
   (C) Physical Power
   (D) Downward trend of sales
9. Match Col. X (Sports trophy) and Col. Y (Related Sports)

<table>
<thead>
<tr>
<th>Col. X</th>
<th>Col. Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>P Durand Cup</td>
<td>1. Tennis</td>
</tr>
<tr>
<td>Q Duleep Trophy</td>
<td>2. Football</td>
</tr>
<tr>
<td>R Uber Cup</td>
<td>3. Cricket</td>
</tr>
<tr>
<td>S Wimbeldon Grand Slam</td>
<td>4. Badminton</td>
</tr>
<tr>
<td>(A) P–2, Q–4, R–3, S–1</td>
<td>(B) P–2, Q–3, R–1, S–4</td>
</tr>
<tr>
<td>(C) P–3, Q–2, R–4, S–1</td>
<td>(D) P–2, Q–3, R–4, S–1</td>
</tr>
</tbody>
</table>

10. Record of highest individual score in One Day International Cricket matches is in the name of

(A) Rohit Sharma   (B) Sachin Tendulkar
(C) Virender Sehwag (D) Chris Gayle

11. What is common amongst Mary Kom, Vijender Singh and Abhinav Bindra.

(A) They all are good Shooters
(B) They all are good Boxers
(C) They all have won medals for India in International Games
(D) They all have won Padma Bhushan Award

12. Kudankulam was in News. It is related to

(A) A mega Super Thermal Power Plant
(B) A Nuclear Power Plant
(C) A Base for launch of Satellite
(D) A base of ISRO for Mangalyaan

13. Which Indian State recently launched m-governance app.

(A) Karnataka       (B) Tamil Nadu
(C) Gujarat         (D) Madhya Pradesh

14. Current Speaker of Lok Sabha is

(A) Miera Kumar     (B) Sumitra Mahajan
(C) Annadurai       (D) P A Sangma
15. Which Country was declared by UN as EBOLA free?
(A) South Africa  (B) Nigeria
(C) Zimbabwe     (D) Ethiopia

16. What least number must be subtracted from 13601 to get a number exactly divisible by 87?
(A) 49     (B) 23
(C) 29     (D) 31

17. Which of the following fractions is the largest?
(A) $\frac{7}{8}$     (B) $\frac{13}{16}$
(C) $\frac{31}{40}$   (D) $\frac{63}{80}$

18. $\frac{5}{8}$ of 24 = $\frac{15}{7}$ of 7
(A) $\frac{7}{225}$   (B) 7
(C) 8              (D) 15

19. If $\sqrt{24}$ is approximately equal to 4.898, then $\frac{8}{\sqrt{3}}$ is nearly equal to
(A) 0.544     (B) 1.333
(C) 1.633     (D) 2.666

20. If the sum of a few numbers is 450 and their mean is 50 and if another number 100 is included, the mean would become
(A) 55     (B) 60
(C) 75     (D) 150
21. 15 years hence, a man will be just 4 times as old as he was 15 years ago. His present age is
(A) 10 years        (B) 15 years
(C) 20 years        (D) 25 years

22. X’s income is 20% more than Y’s income. Y’s income is less than X’s income by
(A) 15%        (B) \( \frac{2}{3} \)%
(C) 20%        (D) 22%

23. Articles are bought at 5 for ₹10 and sold at 6 for ₹15 by a man. His gain percent is
(A) 50%        (B) 40%
(C) 35%        (D) 25%

24. If 15% of A = 20% of B, then A : B = ?
(A) 3 : 4        (B) 4 : 3
(C) 17 : 16      (D) 16 : 17

25. A, B, C rented a camera at a rent of ₹350. If they use it for 6 hours, 10 hours and 12 hours respectively, the rent to be paid by C, is
(A) ₹75        (B) ₹125
(C) ₹135      (D) ₹150

26. A can do a work in 4 days, B can do it in 5 days and C can do it in 10 days, then A, B, C together can do the work in
(A) \( \frac{3}{5} \) days        (B) \( \frac{9}{11} \) days
(C) \( \frac{5}{6} \) days        (D) 3 days
27. Mr. X completes 30 km of a journey at 6 km/hour and the remaining 40 km of the journey at 5 hours. His average speed for the whole journey is

(A) \( \frac{4}{11} \) km/hr  
(B) 7 km/hr  
(C) \( \frac{1}{2} \) km/hr  
(D) 8 km/hr

28. In how many years, a sum will be thrice of it at the rate of 10% per annum simple interest?

(A) 15 years  
(B) 20 years  
(C) 30 years  
(D) 40 years

29. A sum becomes ₹2916 in 2 years at 8% per annum compound interest. The sum is

(A) ₹2750  
(B) ₹2500  
(C) ₹2926  
(D) ₹2560

30. The length of a rectangle is increased by 10% and its breadth is decreased by 10%, then, the area of the new rectangle is

(A) neither increased nor decreased  
(B) increased by 1%  
(C) decreased by 1%  
(D) decreased by 10%

31. Read the following information to decide the option.

i) A is richer than B
ii) C is richer than A
iii) D is richer than C
iv) E is the richest of all

If they sit in the order of richness who will have the central position?

(A) A  
(B) B  
(C) C  
(D) D

Directions: (For Question No. 32 and Question No. 33) Read following information.

i) A and B play football and hockey
ii) C and D play badminton and cricket
iii) B and C play cricket and football
iv) A and D play hockey and badminton

32. One who plays badminton, football and cricket is

(A) A  
(B) B  
(C) C  
(D) D
90. Which effect may lead to toxic reactions when a drug is taken continuously or repeatedly?

(A) Refractoriness  (B) Cumulative effect
(C) Tolerance      (D) Tachyphylaxis

91. Which one of the following local anesthetics is an ester of benzoic acid?

(A) Lidocaine      (B) Procaine
(C) Ropivacaine    (D) Cocaine

92. Metabolic transformation (Phase I) is

(A) Acetylation and methylation of substances
(B) Transformation of substances due to oxidation, reduction or hydrolysis
(C) Glucuronide formation
(D) Binding to plasma proteins

93. Biological Barriers include all EXCEPT

(A) Renal tubules  (B) Cell membranes
(C) Capillary walls (D) Placenta

94. Match Col. X (Type of food) and Col. Y (Calcium content mg/100g)

<table>
<thead>
<tr>
<th>Col. X</th>
<th>Col. Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>P  Cow's Milk</td>
<td>1</td>
</tr>
<tr>
<td>Q  Cheese</td>
<td>2</td>
</tr>
<tr>
<td>R  Cumin seeds (Jeera)</td>
<td>3</td>
</tr>
</tbody>
</table>

(A) P–1, Q–2, R–3  (B) P–2, Q–3, R–1
(C) P–2, Q–1, R–3  (D) P–1, Q–3, R–2
39. BLOOD is related to ARTERY in the same way as WATER is related to
   (A) Vein  (B) Pipe
   (C) Aorta  (D) Straw

40. Select the option to replace ? to continue with the pattern in given number series
   5, 7, 11, ?, 35, 67
   (A) 19  (B) 22
   (C) 28  (D) 17

41. In given series, some letters are missing, these are given in options in that order. Select the option to complete the series in a pattern.
   ba_ba_baab_
   (A) baba  (B) aaaa
   (C) bbbb  (D) baab

42. Select the option to maintain the relation on either side of :
   BDG : PRU : : LNQ : ?
   (A) FGI  (B) TRS
   (C) MKI  (D) DFI

43. Select the option having similar relationship amongst words as in given words.
   Correspondent : News : Newspaper
   (A) Road : Vehicle : Destination
   (B) Cloud : Water : Ponds
   (C) Farmer : Crops : Food
   (D) Mason : Cement : Construction

44. Select the option to replace ? to maintain the pattern in given number series.
   1, 1, 2, 6, 24, ?, 720
   (A) 100  (B) 104
   (C) 108  (D) 120
45. FLOWER is to BOUQUET as MINISTER is to 
   (A) Department (B) Constituency  
   (C) Voter (D) Cabinet

46. Select the option to have similar relation on either side of : : in given series.
   MAD : JXA : : RUN : ?
   (A) ORK (B) OSQ  
   (C) PRJ (D) UXQ

47. Select the ODD one.
   (A) Metre (B) Yard  
   (C) Mile (D) Acre

48. If POND is coded as RSTL, how is HEAR written in that code?
   (A) GHIJ (B) GHIZ  
   (C) JIGZ (D) JCLZ

49. If "Wall" is called "Window", "Window" is called "Door", "Door" is called "Floor", "Floor" is called "Roof", and "Roof" is called "Ventilator", what will a person stand on?
   (A) Window (B) Wall  
   (C) Floor (D) Roof

50. Ravi is 7 ranks ahead of Sumit in a class of 39. If Sumit's rank is seventeenth from the last, what is Ravi's rank from the start?
   (A) 14th (B) 15th  
   (C) 16th (D) 17th
51. Which endocrine gland is situated in the lower part of neck on the thyroid cartilage.
   (A) Pituitary Gland  (B) Adrenal Gland
   (C) Thyroid Gland  (D) Pineal Gland

52. Large intestine has all parts except.
   (A) Caecum  (B) Sigmoid colon
   (C) Ascending colon  (D) Jejunum

53. Skeletal muscles are composed of a large number of
   (A) Cartilage  (B) Elastic fibres
   (C) Inelastic fibres  (D) Dense fibres

54. Right lung has how many lobes.
   (A) 1  (B) 2
   (C) 3  (D) 4

55. Muscles of forearm is divided into which group.
   (A) Anterior and Posterior muscles
   (B) Lateral and Parietal muscles
   (C) Superior and Inferior muscles
   (D) Superficial and deep muscles

56. In pregnancy, heart beating and gastrointestinal tract development starts in foetus in which month.
   (A) First month  (B) Third to Fourth month
   (C) Seventh month  (D) Ninth month

57. _______ is a ball and socket joint
   (A) Hip joint  (B) Elbow joint
   (C) Knee joint  (D) None of these
58. What is the main source of energy for cardiac muscle.
   (A) Glucose  (B) Fat
   (C) Protein   (D) Lactic Acid

59. Which statement is NOT true about ovaries.
   (A) The ovaries are two in number
   (B) Secretion of oestrogen is an important function of ovaries
   (C) Secretion of Testosterone is also an important function of ovaries
   (D) Secretion of Progestrone is also an important function of ovaries

60. Which of the following is NOT true about testes.
   (A) The testes produce spermatocoea
   (B) The testes are internal genital organs
   (C) The testes have an important function of formation, development and
       liberation of ova
   (D) Testosterone hormone is responsible for sexual characteristics

61. What kind of substances cannot permeate membranes by passive diffusion?
   (A) Lipid-Soluble  (B) Non-ionised substances
   (C) Hydrophobic substances  (D) Hydrophilic substances

62. Pharmacodynamics involves the study of following EXCEPT:
   (A) Biological and therapeutic effects of drugs
   (B) Absorption and distribution of drugs
   (C) Mechanisms of drug action
   (D) Drug interactions

63. Tolerance and drug resistance can be a consequence of
   (A) Drug dependence
   (B) Increased metabolic degradation
   (C) Depressed renal drug excretion
   (D) Activation of a drug after hepatic first-pass
64. What is the function of the blood vessels and capillaries?
   (A) They pump blood to the heart
   (B) They filter impurities from the blood
   (C) They carry blood to all parts of the body
   (D) They carry messages from the brain to the muscles

65. What is a specialised nerve cell?
   (A) Neuron
   (B) Axon
   (C) Dendrites
   (D) Nucleus

66. The exchange of gases inside the lungs actually occurs inside tiny sacs called
   (A) bronchi
   (B) cilia
   (C) capillaries
   (D) alveoli

67. The digestion of protein is facilitated by
   (A) Trypsin
   (B) Amylase
   (C) Secretin
   (D) Lipase

68. What is the functional filtration unit in the kidney?
   (A) Renal tubule
   (B) renal corpuscle
   (C) Nephron
   (D) Glomerulus

69. When positioned properly, the tip of a central venous catheter should lie in the
   (A) Superior vena cava
   (B) Basilica vein
   (C) Jugular vein
   (D) Subclavian vein

70. A sudden redness of the skin is known as
   (A) Flush
   (B) Cyanosis
   (C) Jaundice
   (D) Pallor
71. Which of the following clinical finding indicates the patient is experiencing hypokalemia?
(A) Edema  (B) Muscle spasms
(C) Kussauamal Breathing  (D) Abdominal distention

72. Bending of head towards chest is
(A) Flexion  (B) Extension
(C) Abduction  (D) Supination

73. A female client who received general anesthesia returns from surgery. Postoperatively, which nursing diagnosis takes highest priority for this client?
(A) Acute pain related to surgery
(B) Deficient fluid volume related to blood and fluid loss from surgery
(C) Impaired physical mobility related to surgery
(D) Risk of aspiration related to anesthesia

74. Treatment of some nutritional diseases with _____ can be done without medicines.
(A) Balanced Diet  (B) High protein Diet
(C) Uremic Diet  (D) Therapeutic Diet

75. How many fontanelles are present in newborn?
(A) Two  (B) Three
(C) Five  (D) Four

76. Delusion is a disorder of
(A) Thinking  (B) Memory
(C) Perception  (D) Intellect

77. Anxiety neurosis is characterised by all except
(A) suicidal intent
(B) panic attacks
(C) multiple somatic complaints
(D) over-concern
78. Psycho-somatic illness can be differentiated from hysteria by
   (A) altered sensorium   (B) autonomic disturbances
   (C) involuntary movements   (D) Skeletal muscle atrophy

79. In Schizophrenia, the term anhedonia refers to
   (A) inability to enjoy food   (B) inability to express empathy
   (C) inability to react to enjoyable or pleasurable events   (D) inability to react appropriately to social crisis

80. Psychodynamics theory as developed by Freud saw phobia as
   (A) Repressed ego   (B) Repressed id impulses
   (C) Repressed superego   (D) Repressed defense mechanism

81. In a child with conduct disorder, aggressive behaviour is
   (A) caused by anxiety   (B) marking low self esteem
   (C) caused by temporary changes in relationships   (D) caused by heredity

82. First fetal movement felt by the mother is known as
   (A) Lightning   (B) Quickening
   (C) Ballottement   (D) Engagement

83. Narrowest part of the fallopian tube is the
   (A) interstitial portion   (B) Isthmus
   (C) Infundibulum   (D) Ampulla

84. A surgically planned incision on the perineum is:
   (A) Hysterectomy   (B) Episiotomy
   (C) Suction evacuation   (D) Dilatation and evacuation
85. Which Statement about food and nutrients is NOT correct
   (A) Food also performs a function to satisfy emotional needs like sense of security and attention
   (B) Starch found in cereals is an example of proteins in food
   (C) Vitamins are needed for growth and normal function of the body
   (D) Water is essential for elimination of food waste

86. For an adult man with sedentary work style, match Col. X (nutrient) and Col. Y (requirement in grams).

<table>
<thead>
<tr>
<th>Col. X</th>
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</tr>
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<tbody>
<tr>
<td>Cereals</td>
<td>1 30</td>
</tr>
<tr>
<td>Fruits</td>
<td>2 100</td>
</tr>
<tr>
<td>Green/leafy vegetables</td>
<td>3 400</td>
</tr>
<tr>
<td>P-1, Q-2, R-3</td>
<td></td>
</tr>
<tr>
<td>P-3, Q-1, R-2</td>
<td></td>
</tr>
</tbody>
</table>

87. Hardness of water can be removed by adding _____
   (A) Calcium Chloride  (B) Magnesium Chloride
   (C) Sodium Chloride  (D) Potassium Permanganate

88. Which statement is NOT correct about breast feeding
   (A) Breast feeding prolongs the period of natural immunity to virus diseases
   (B) The breast feeding needs to be discontinued when infant is weak or unable to nurse
   (C) Babies fed on breast milk are also less likely to develop constipation
   (D) It is important that breast feeding to new born is delayed to feed colostrum as far as possible

89. All the Statements are correct EXCEPT
   (A) The Basal Metabolic Rate is normally measured early in the morning when in a post absorptive state
   (B) Body size and composition, age and growth affect the basal requirement
   (C) The classic Harris-Benedict equations are one of the options to estimate the Basal Energy needs
   (D) Energy needs of the body in motion are called Basal metabolism
90. Which effect may lead to toxic reactions when a drug is taken continuously or repeatedly?
   (A) Refractoriness  (B) Cumulative effect
   (C) Tolerance  (D) Tachyphylaxis

91. Which one of the following local anesthetics is an ester of benzoic acid?
   (A) Lidocaine  (B) Procaine
   (C) Ropivacaine  (D) Cocaine

92. Metabolic transformation (Phase I) is
   (A) Acetylation and methylation of substances
   (B) Transformation of substances due to oxidation, reduction or hydrolysis
   (C) Glucuronide formation
   (D) Binding to plasma proteins

93. Biological Barriers include all EXCEPT
   (A) Renal tubules  (B) Cell membranes
   (C) Capillary walls  (D) Placenta

94. Match Col. X (Type of food) and Col. Y (Calcium content mg/100g)

   Col. X  Col. Y
   P  Cow's Milk  1  790
   Q  Cheese  2  120
   R  Cumin seeds (Jeera)  3  1040
   (A) P−1, Q−2, R−3  (B) P−2, Q−3, R−1
   (C) P−2, Q−1, R−3  (D) P−1, Q−3, R−2
95. Chief source of energy in environment is
   (A) Fire  (B) Moon  (C) Sun  (D) Stars

96. In a Computer, the virus is a
   (A) Hardware  (B) Software  (C) A bacteria  (D) A dust

97. Which of the following is NOT an operating system:
   (A) Windows  (B) Linux  (C) Android  (D) Java

98. In MS Word, a short-cut key to print command is
   (A) Control + P  (B) Control + C  (C) Control + D  (D) Control + Alt

99. In MS Excel, the data is entered in a
   (A) Sheet  (B) Cell  (C) Document  (D) Graphic

100. Which is the smallest unit in Computer.
    (A) Kilobyte  (B) Megabyte  (C) Gigabyte  (D) Terabyte