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**LMRC**  
**Junior Engineer**  
**Previous Year Paper**  
**(Civil) 28 June 2015**



# Lucknow Metro Rail Corporation

Participant ID:

Participant Name:

Test Center Name:

Test Date:

28/06/2015

Test Time:

4:00 PM - 5:30 PM

Subject Name:

Junior Engineer Civil

Section : Technical

**Q.1 Assertion A:** The efficiency of a reciprocating pump is 10-20 percent higher than that of a centrifugal pump for comparable discharge-head condition.

Chosen Answer : --

**Reason R:** The discharge from a reciprocating pump is dependent upon speed.

Which of the following is correct?

**Options**  
1. A is false but R is true  
2. A is true but R is false

3. Both A and R are true and R is the correct explanation of A

4. Both A and R are true but R is not the correct explanation of A

**Q.2** For a sandy soil, the angle of internal friction is  $30^\circ$ . If the major principal stress is  $50 \text{ kN/m}^2$  at failure, then the corresponding minor principal stress will be

Chosen Option : 4

**Options**  
1. 16.66  
2. 27.2  
3. 12.2  
4. 20.8

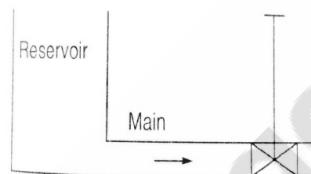
**Q.3 The laying of sewers is done with:**

Chosen Option : 2

**Options**  
1. Plane table  
2. Theodolite  
3. Magnetic compass  
4. Level

**Q.4** The following sketch shows a water supply main from a storage reservoir provided with a sluice valve.

Chosen Option : 1



The type of valve most suitable for this pipeline is:

**Options**  
1. Check valve  
2. Scour valve  
3. Pressure relief valve  
4. Air valve

**Q.5 When waste water is disposed off into a running stream, four zones are formed. In which of the following zones will the minimum level of dissolved oxygen be found?**

Chosen Option : 1

**Options**  
1. Zone of degradation  
2. Zone of active decomposition  
3. Zone of clear water  
4. Zone of recovery

**Q.6** Consider the following.

- A. Initial consolidation
- B. Primary consolidation
- C. Secondary consolidation
- D. Final consolidation

Chosen Option : 3

The three stages that would be relevant to consolidation of a soil deposit are:

**Options**  
1. A, B and D  
2. A, C and D  
3. B, C and D  
4. A, B and C

**Q.7 In a shear test on cohesionless soils, if the initial void ratio is less than the critical void ratio, the sample will:**

Chosen Option : 4

**Options**  
1. Increase in volume  
2. Decrease in volume  
3. Initially decrease and then increase in volume  
4. Initially increase in volume and then remain constant

**Q.8** Hydrophobic cement relates with IS code of:

**Options**

- 1. IS: 8041-1990
- 2. IS: 6909-1990
- 3. IS: 6452-1989
- 4. IS: 8043-1991

Chosen Option : 4

**Q.9** You are given a sample of soil containing coarse grains to determine its water content. What will you use for the purpose?

**Options**

- 1. Alcohol method
- 2. Calcium carbide method
- 3. Pycnometer
- 4. Oven-drying method

Chosen Option : 4

**Q.10** Consider the following statements.

- A. Pumps in series operation allow the head to increase
- B. Pumps in series operation increase the flow rate
- C. Pumps in parallel operation increase the flow rate
- D. Pumps in parallel operation allow the head to increase

Chosen Option : 2

Which of these statements are correct?

**Options**

- 1. A and D
- 2. A and C
- 3. B and D
- 4. C and D

**Q.11** Consider the following statements about theodolites.

- A. Transit theodolite is a theodolite in which the telescope can be transited.
- B. EDMI is a theodolite fitted with a micrometer for measurements.
- C. A double reading theodolite is one in which diametrically opposite segments of the graduated circle are brought into view and readings are correct.

Chosen Option : 3

Which of these statements are correct?

**Options**

- 1. All three
- 2. Only A and C
- 3. Only A and B
- 4. Only B and C

**Q.12** In the triaxial compression test, the application of additional axial stress on the soil specimen produces shear stress on:

Chosen Option : 2

**Options**

- 1. Both horizontal and vertical planes
- 2. Horizontal plane only
- 3. All planes except horizontal and vertical planes
- 4. Vertical plane only

**Q.13** Broken bricks or stone chips are also called:

**Options**

- 1. Wastage
- 2. Scrap
- 3. Spall
- 4. Brokomite

Chosen Option : 4

**Q.14** Which of the following lists soils in increasing order of surface areas?

**Options**

- 1. Clay, silt, sand, colloids
- 2. Silt, sand, colloids, clay
- 3. Sand, silt, clay, colloids
- 4. Sand, silt, colloids, clay

Chosen Option : 4

**Q.15** Traps are used in household drainage systems to:

**Options**

- 1. provide partial vacuum
- 2. restrict the flow of water
- 3. trap the solid wastes
- 4. prevent entry of foul gases in the houses

Chosen Option : 4

**Q.16** The pH value of fresh sewage is usually:

**Options**

- 1. More than 7
- 2. Less than 7
- 3. Equal to 7
- 4. Equal to zero

Chosen Option : 1

**Q.17** Match List I with List II and choose the correct answer from the options given below.

Chosen Option : 2

| List I (Physical quantity) | List II (Dimension) |
|----------------------------|---------------------|
| A. Angular velocity        | a. $L^2T^{-1}$      |
| B. Angular acceleration    | b. $T^{-1}$         |
| C. Discharge               | c. $T^{-2}$         |
| D. Kinematic viscosity     | d. $L^3T^{-1}$      |

**Options**

- 1. A-a, B-b, C-c, D-d

2. A-b, B-c, C-d, D-a
3. A-b, B-d, C-a, D-c
4. A-c, B-d, C-a, D-b

**Q.18 A closed contour line with two or more higher contours inside it will represent a:**

Chosen Option : 3

**Options**

1. Cave
2. Depression
3. Hill
4. Well

**Q.19 If the permeability of a soil is 0.8 mm/sec, the type of soil is:**

Chosen Option : 2

**Options**

1. Gravel
2. Clay
3. Silt
4. Sand

**Q.20 Coefficient of consolidation for clays normally:**

Chosen Option : 4

**Options**

1. decreases with increase in liquid limit
2. increases with increase in liquid limit
3. remains constant at all liquid limits
4. first increases and then decreases with increase in liquid limit

**Q.21 In which method of surveying, do both the field observation and plotting proceed simultaneously?**

Chosen Option : 2

**Options**

1. Compass surveying
2. Plane table surveying
3. Tacheometric surveying
4. Chain surveying

**Q.22 Which of the following are the most fire resistant paints?**

Chosen Option : 2

**Options**

1. Cement paints
2. Asbestos paints
3. Aluminium paints
4. Enamel paints

**Q.23 In which of the following pairs of trees, both trees yield soft wood?**

Chosen Option : 1

**Options**

1. Chir and Sal
2. Chir and Deodar
3. Deodar and Shishum
4. Sal and Teal

**Q.24 The main principle of surveying is to work:**

Chosen Option : 4

**Options**

1. From part to the whole
2. From higher level to the lower level
3. From lower level to the higher level
4. From whole to the part

**Q.25 In comparison to Atterberg limit of normal soils, the expansion soils have which of the following?**

Chosen Option : 3

- A. More liquid limit
- B. Less plastic limit
- C. Less shrinkage limit
- D. More volumetric shrinkage

**Options**

1. Only A, C and D
2. Only A, B and D
3. A, B, C and D
4. Only B and C

**Q.26 A turbine works at 20 m head and 500 rpm speed. Its 1 : 2 scale model to be tested at a head of 20 m should have a rotational speed of nearly**

Chosen Answer : --

**Options**

1. 250 rpm
2. 1000 rpm
3. 500 rpm
4. 700 rpm

**Q.27 Which is the most commonly used base for timber painting?**

Chosen Option : 3

**Options**

1. Red lead
2. Titanium white

- 3. Zinc white
- 4. White lead

**Q.28 Granite is not suitable for ordinary building purpose because:**

**Options**

- 1. it is not a fire proof material.
- 2. it is costly.
- 3. it cannot be polished.
- 4. it has less crushing strength.

Chosen Option : 2

**Q.29 What does the "Slump test" for concrete determine?**

**Options**

- 1. Strength
- 2. Durability
- 3. Workability
- 4. Water content

Chosen Option : 3

**Q.30 From the list of treatments given below, which treatments reduce salinity of water?**

- A. Flash mixing and sedimentation
- B. Electrodialysis
- C. Reverse osmosis
- D. Freezing
- E. Filtration

Choose the correct answer.

**Options**

- 1. A, C and E
- 2. A, B and D
- 3. A, B, C, D and E
- 4. B, C, and D

Chosen Option : 1

**Q.31 Assertion A:** Paints with white lead base are not recommended for painting of iron works.

Chosen Option : 1

**Reason R:** Paints with white lead base do not check rusting of iron.

Which of the following is correct?

**Options**

- 1. A is true but R is false.
- 2. Both A and R are true, and R is the correct explanation of A.
- 3. Both A and R are true but R is not the correct explanation of A.
- 4. A is false but R is true.

Chosen Option : 1

**Q.32 Assertion A:** The inlet velocity triangle for a Pelton turbine is a straight line.

**Reason R:** For a Pelton turbine, the vane angle at inlet is  $180^\circ$ .

Chosen Answer : --

Which of the following is correct?

**Options**

- 1. A is true but R is false
- 2. Both A and R are true but R is not the correct explanation of A
- 3. A is false but R is true
- 4. Both A and R are true and R is the correct explanation of A

Chosen Answer : --

**Q.33 Assertion A:** Permeability continues to decrease with the increase in dry density of a compacted soil.

**Reason R:** Soil particles in water surroundings may be mutually attracted or repulsed.

Chosen Answer : --

Which of the following is correct?

**Options**

- 1. Both A and R are true and R is the correct explanation of A
- 2. A is false but R is true
- 3. Both A and R are true but R is not the correct explanation of A
- 4. A is true but R is false

Chosen Answer : --

**Q.34 The side slope of cipolletti weir is generally kept**

Chosen Option : 1

**Options**

- 1. 1 to 3
- 2. 1 to 2
- 3. 1 to 4
- 4. 1 to 5

**Q.35 The maximum permissible limit for fluoride in drinking water is:**

Chosen Option : 1

**Options**

- 1. 1.5 mg/litre
- 2. 5 mg/litre
- 3. 0.1 mg/litre
- 4. 10 mg/litre

**Q.36 The base material for distemper is:**

Chosen Option : 2

**Options**

- 1. Lime
- 2. Chalk
- 3. Cement
- 4. Snowcem

**Q.37 The stone that exhibits highest compressive strength is:**

Chosen Option : 3

**Options**

- 1. Gneisses

2. Limestone  
3. Granite  
4. Slate

**Q.38 If a tacheometer is fitted with an anallatic lens, then:**

**Option**  
ns 1. the additive constant is 100, the multiplying constant is zero  
2. both multiplying and additive constants are 50  
3. both multiplying and additive constants are 100  
4. the multiplying constant is 100, the additive constant is zero

Chosen Answer : --

**Q.39 Match List I with List II and choose the correct answer from the options given below.**

| List I      | List II               |
|-------------|-----------------------|
| A. Pigment  | a. Turpentine         |
| B. Drier    | b. Iron oxide         |
| C. Thinner  | c. Zinc sulphate      |
| D. Extender | d. Aluminium silicate |

Chosen Option : 3

**Option**  
ns 1. A-b, B-c, C-a, D-d  
2. A-b, B-c, C-d, D-a  
3. A-c, B-b, C-a, D-d  
4. A-c, B-b, C-d, D-a

**Q.40 Which is the most commonly used sewer under culverts?**

**Option**  
ns 1. Semi-elliptical sewer  
2. Circular cast iron sewer  
3. Horse-shoe type sewer  
4. Circular brick sewer

Chosen Option : 1

**Q.41 The critical state of flow through a channel section may be defined as the state of flow at which the:**

**Option**  
ns 1. discharge is maximum for a given specific force.  
2. discharge is minimum for a given specific energy.  
3. specific force is maximum for a given discharge.  
4. specific energy is maximum for a given discharge.

Chosen Option : 2

**Q.42 For a given sandy soil whose soil grains are spherical in shape and of uniform size, the theoretical void ratio is:**

**Option**  
ns 1. 0.61  
2. 0.91  
3. 0.81  
4. 0.71

Chosen Option : 1

**Q.43 Which method is used for the preparation of a contour plan for a route survey?**

**Option**  
ns 1. Indirect method of contouring  
2. Method of cross profile  
3. Method of squares  
4. Method of trace contour

Chosen Option : 3

**Q.44 In the cross-section method of indirect contouring, the spacing of cross-section depends upon:**

**Option**  
ns 1. Contour interval  
B. Scale of plan  
C. Characteristics of ground

Chosen Option : 3

**Option**  
ns 1. B and C  
2. A and B  
3. A, B and C  
4. Only A

**Q.45 The least count of prismatic compass is:**

**Option**  
ns 1.  $1^\circ$   
2.  $15'$   
3.  $30'$   
4.  $20''$

Chosen Option : 4

**Q.46 Which of the following fluids can be classified as non-newtonian?**

**Option**  
ns 1. Human blood and Toothpaste  
2. Kerosene oil and Diesel oil  
3. Kerosene oil and Water  
4. Diesel oil and Water

Chosen Option : 1

**Q.47 Which of the following methods of theodolite traversing is suitable for locating the details which are far away from transit stations?**

Chosen Option : 4

**Options**

1. Measuring distance from two points on traverse line
2. Measuring angle at one station and distance from other
3. Measuring angle and distance from one transit station
4. Measuring angle to the point from at least two stations

**Q.48**

Chosen Option : 2

**Options**

- 1.
- 2.
- 3.
- 4.

**Q.49 Approximately, what is the specific gravity of sands?**

**Options**

1. 2
2. 2.6
3. 2.4
4. 2.2

**Q.50 A high efficiency pump is required for low discharge, high head and low maintenance cost. Delivery of water need not be continuous. The pump need not run at high speed. Which one of the following is the correct choice?**

**Options**

1. Air lift pump
2. Centrifugal pump
3. Hydraulic ram
4. Reciprocating pump

**Q.51 The horse power transmitted through a pipe is maximum when the ratio of loss of head due to friction to the total head supplied is:**

**Options**

1.  $\frac{1}{4}$
2.  $\frac{1}{2}$
- 3.
- 4.

**Q.52 Plywood is made by bonding together thin layers of wood in such a way that the angle between grains of any layer to grains of adjacent layers is:**

**Options**

1. 30
2. 0
3. 90
4. 45

**Q.53**

**Options**

1. Silt of low plasticity
2. Organic soil of medium plasticity
3. Clay of intermediate plasticity
4. Clay of high plasticity

**Q.54 In a centrifugal pump casing, the flow of water leaving the impeller, is:**

**Options**

1. Forced vortex
2. Free vortex motion
3. Rectilinear flow
4. Radial flow

**Q.55 Based on the following rocks and minerals, select the correct statement.**  
Quartz, shale, basalt, granite, marble, gypsum, mica

**Options**

1. Quartz and mica are minerals
2. Granite is the only igneous rock
3. Basalt and marble are the only metamorphic rocks
4. There is no sedimentary rock

**Q.56 For a good building stone, its specific gravity should be greater than:**

**Options**

1. 2.2
2. 2.7

Chosen Option : 2

Chosen Option : 2

Chosen Answer : --

Chosen Option : 3

Chosen Option : 2

Chosen Option : 4

Chosen Option : 1

Chosen Option : 2



3. 1.5  
4. 1.7

**Q.57 In sewers designed with self cleaning velocity,**

**Optio ns** 1. the bottom is silted

2. neither silting nor scouring occurs at the bottom  
3. the bottom is scoured  
4. both silting and scouring occur at the bottom

Chosen Option : 2

**Q.58 The velocity distribution of viscous fluid through a pipe is:**

**Optio ns** 1. Elliptical

2. Hyperbolic  
3. Parabolic  
4. Circular

Chosen Option : 3

**Q.59 Match List I with List II and choose the correct answer from the options given below.**

Chosen Option : 1

| <b>List I (Soil)</b> | <b>List II (Grain size)</b> |
|----------------------|-----------------------------|
| A. Clay              | a. 2.00 to 4.75 mm          |
| B. Coarse sand       | b. 0.002 to 0.075 mm        |
| C. Fine Sand         | c. 0.075 to 0.425 mm        |
| D. Silt              | d. 4.0 to 0.002 mm          |

**Optio ns** 1. A-b, B-a, C-c, D-d

2. A-c, B-a, C-b, D-d  
3. A-a, B-c, C-d, D-b  
4. A-d, B-a, C-c, D-b

**Q.60 Which of the following processes takes place in trickling filters?**

**Optio ns** 1. Oxidation

2. Filtration  
3. Biological action  
4. Disinfection

Chosen Option : 1

**Q.61 Dechlorination of water is achieved by adding**

**Optio ns** 1. Sodium hexametaphosphate

2. Sodium sulphate  
3. Sodium thiosulphate  
4. Sodium bisulphite

Chosen Option : 1

**Q.62 The sensitivity of a bubble tube can be increased by:**

**Optio ns** 1. Increasing the diameter of the tube

2. Decreasing the radius of curvature of the tube  
3. Decreasing the length of the bubble  
4. Increasing the viscosity of liquid

Chosen Option : 4

**Q.63 Manning's formula is used for:**

**Optio ns** 1. Head loss due to friction in pipes flowing full

2. Head loss due to friction in open channels  
3. Flow in open channels  
4. Flow in pipes

Chosen Option : 4

**Q.64 The conventional sign shown in the figure represents a:**

Chosen Option : 3



**Optio ns** 1. Bridge carrying road and railway at the same level

2. Bridge carrying road below railway  
3. A level crossing  
4. Bridge carrying railway below road

**Q.65 What does the term "frog" mean?**

**Option** ns

1. A depression on a face of brick
2. Soaking brick in water
3. An apparatus to lift the stone
4. Vertical joint in a brick work

Chosen Option : 1

**Q.66 For a colony of 10,000 persons having sewage flow rate of 200 L/capit a/day, BOD of applied sewage of 300 mg/L and organic loading of 300 k g/day/hectare, the area of an oxidation pond required for treating the sewage of the colony is:**

**Option** ns

1. 2 hectares
2. 6 hectares
3. 0.2 hectares
4. 1 hectare

Chosen Option : 2

**Q.67 A sewer is laid from manhole A to manhole B, 250 m apart along a downward gradient of 1 in 125. If the reduced level of the invert at A is 205.75 m and the height of the boning rod is 3 m, then the reduced level of the sight rail at B is:**

**Option** ns

1. 206.75 m
2. 202.75 m
3. 208.75 m
4. 211.75 m

Chosen Answer : --

**Q.68 A rectangular open channel carries a discharge of  $15 \text{ m}^3/\text{s}$  when the depth of flow is 1.5 m and the bed slope is 1 : 1440. What will be the discharge through the channel at the same depth if the slope would have been 1 : 1000?**

Chosen Answer : --

**Option** ns

- 1.
- 2.
3. **14.4  $\text{m}^3/\text{s}$**
- 4.

**Q.69 The real image of an object formed by the objective must lie:**

**Option** ns

1. at the optical centre of the eye-piece
2. in the plane of cross hairs
3. at the centre of the telescope
4. anywhere inside the telescope

Chosen Option : 1

**Q.70 Disinfection of water results in:**

**Option** ns

1. Complete sterilization
2. Killing of disease bacteria
3. Removal of turbidity
4. Removal of hardness

Chosen Option : 2

**Q.71**

**Option** ns

1. A, C and D
2. C, D and E
3. B, D and E
4. A, B and C

Chosen Option : 3

**Q.72 In a wet soil mass, air occupies one-sixth of its volume and water occupies one-third of its volume. The void ratio of the soil is:**

Chosen Option : 2

**Option** ns

1. 0.25
2. 0.5
3. 1.5
4. 1

**Q.73**

Chosen Option : 2

**Option** ns

1. 3 m
2. 4 m
3. 2 m
4. 6 m

**Q.74 Which of the following filters will produce water of higher bacteriological quality?**

Chosen Option : 2

**Option** ns

1. Pressure filter
2. Slow sand filter
3. Dual media filter
4. Rapid sand filter

**Q.75**

**Option** ns

- 1.
- 2.

Chosen Option : 2

3.

4.

Section : Numerical and logical Reasoning questions

**Q.1** If 'JUDGEMENT' is written as 'UTNMJGEED' in a certain language, how would 'CURIOSITY' be written in the language?

Chosen Option : 2

**Options**  
1. YUTSROIIIC  
2. UYSTROIIC  
3. YUSTROIIC  
4. YUTSORIIC

**Q.2** Among 5 items, A weighs half as much as E. B weighs three and half times as much as D. C weighs half as much as B and one and half times as much as A.

Chosen Option : 3

Which of the following is the descending order of the weights of the items?

**Options**  
1. BECDA  
2. BECAD  
3. DAECB  
4. DACEB

**Q.3** Each of the following two rows contains 3 numbers. Some rules are given below to be used for getting the resultant for each row separately. Apply the rules for each row from left to right and answer the question.

Chosen Answer : --

*Rules:*

- (i) If an even number is followed by an odd but not prime number, both are to be multiplied.
- (ii) If an even number is followed by a prime number, both are to be added.
- (iii) If an odd number is followed by a composite odd number, the first number is to be subtracted from the square of the second number.
- (iv) If an odd number is followed by an even number, the odd one is to be subtracted from the even number.

Row I: 14, 9, 23

Row II: 17, 21, 11

What is the difference between the resultants of the first row and the second row?

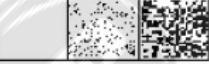
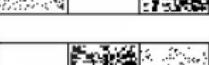
**Options**  
1. 286  
2. 357  
3. 176  
4. 384

**Q.4** The first two figures on the left side of the sign '::' are related in a certain way.

Chosen Option : 4

The same relationship holds for the second pair of figures on the right side of the sign '::', of which one is missing. Which of the following is the missing one?



**Options**  
1.   
2.   
3.   
4. 

**Q.5** Which number will replace the question mark in the following number series?

Chosen Answer : --

28, 22, 32, 17, 37, 13, ?

**Options**  
1. 43  
2. 27  
3. 45  
4. 42

**Q.6** B is the sister of D, who is the father of R. R is S's brother and E is the husband of S.

Chosen Option : 4

Which of the following statements is true?

**Options**  
1. B is the aunt of S  
2. R is the cousin of E

3. E is the brother-in-law of B  
4. B is the niece of S

**Q.7** A mixture of 220 litres contains milk and water in the ratio of 7 : 4. How much water is to be added to the mixture to reverse the ratio of milk and water in the mixture?

Chosen Option : 2

**Options**  
1. 150 litres  
2. 165 litres  
3. 175 litres  
4. 145 litres

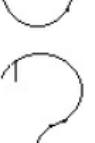
**Q.8** Four words are given below out of which three are alike in some manner and one is different. Which of the given words is different from the other three?

Chosen Option : 1

**Options**  
1. Alligator  
2. Leopard  
3. Tiger  
4. Lion

**Q.9** Four figures are given below out of which three are similar in a certain way and one is different. Which of the given figures is different from the other three?

Chosen Option : 3

**Options**  
1.   
2.   
3.   
4. 

**Q.10** The first two letter clusters on the left side of the sign '::' are related in a certain way. The same relationship holds for the second pair of letter clusters on the right side of the sign '::', of which one is missing. Which of the following is the missing one?

Chosen Answer : --

BHDF : YPVS :: ? : XRV

**Options**  
1. CIEG  
2. CFDE  
3. DGEF  
4. FCED

Section : Computer Applications

**Q.1** Which of the following is not application software?

Chosen Option : 4

**Options**  
1. Browser  
2. Device driver  
3. Word processor  
4. Database

**Q.2** What is the bandwidth required for a broadband Internet connection?

Chosen Option : 2

**Options**  
1. 1.128 kbps  
2. 2.256 kbps  
3. 4028 kbps  
4. 3.512 kbps

**Q.3** Which of the following is best-suited for remote administration of a computer?

Chosen Option : 4

**Options**  
1. WAIS  
2. Browser  
3. HTML  
4. Telnet

**Q.4** Which button should be chosen to create an Excel chart out of selected cells?

Chosen Option : 3

**Options**  
1. F5  
2. F11

|   |                   |
|---|-------------------|
| 3. F7   |                   |
| 4. F3   |                   |
| <b>Q.5 Which of the following softwares merges the records from two files into one?</b>     | Chosen Option : 2 |
| <b>Options</b>  |                   |
| 1. Networking software  |                   |
| 2. Documentation program  |                   |
| 3. Security software  |                   |
| 4. Utility program  |                   |
| <b>Q.6 Which of the following is meant for viewing web pages?</b>                           | Chosen Option : 3 |
| <b>Options</b>  |                   |
| 1. Interpreter  |                   |
| 2. OS   |                   |
| 3. Browser  |                   |
| 4. Website  |                   |
| <b>Q.7 Which of the following coordinates operations using timing signals?</b>              | Chosen Option : 4 |
| <b>Options</b>  |                   |
| 1. Control unit   |                   |
| 2. Memory unit  |                   |
| 3. I/O unit   |                   |
| 4. ALU  |                   |
| <b>Q.8 From which menu one can insert Header and Footer into a Word document?</b>           | Chosen Option : 2 |
| <b>Options</b>  |                   |
| 1. Tools  |                   |
| 2. Insert   |                   |
| 3. Format   |                   |
| 4. View   |                   |
| <b>Q.9 Which of the following is an input device and an output device at the same time?</b> | Chosen Option : 1 |
| <b>Options</b>  |                   |
| 1. LCD projector panels   |                   |
| 2. Touch screen   |                   |
| 3. Audio card   |                   |
| 4. Modem  |                   |
| <b>Q.10 The decimal equivalent of the binary number <math>(0.10110101)_2</math> is:</b>     | Chosen Option : 4 |
| <b>Options</b>  |                   |
| 1. $(0.70703125)_{10}$  |                   |
| 2. $(0.37)_{10}$  |                   |
| 3. $(85)_{10}$  |                   |
| 4. $(0.875)_{10}$   |                   |

|   |                   |
|---|-------------------|
| Section : GK / Awareness  |                   |
| <b>Q.1 The famous Khajuraho temples were built by:</b>                                  | Chosen Option : 1 |
| <b>Options</b>  |                   |
| 1. Chandela   |                   |
| 2. Holkars  |                   |
| 3. Bundela  |                   |
| 4. Scindias   |                   |
| <b>Q.2 The northern part of the west coast of India is known as:</b>                    | Chosen Option : 4 |
| <b>Options</b>  |                   |
| 1. Konkan coast   |                   |
| 2. Bengal coast   |                   |
| 3. Malabar coast  |                   |
| 4. Coromandal coast   |                   |
| <b>Q.3 BCG vaccination (Bacillus Calmette Guérin) is injected to get immunity from:</b> | Chosen Option : 4 |
| <b>Options</b>  |                   |
| 1. Tuberculosis   |                   |
| 2. Polio  |                   |
| 3. Jaundice   |                   |
| 4. Cholera  |                   |
| <b>Q.4 Who is the founder of Indian Institute of Science, Bangalore?</b>                | Chosen Option : 1 |
| <b>Options</b>  |                   |
| 1. Vishveshvarayya  |                   |
| 2. Jamsetji Tata  |                   |
| 3. CV Raman   |                   |
| 4. Vikram Sarabhai  |                   |
| <b>Q.5 Who among the following is not a recipient of Bharat Ratna?</b>                  | Chosen Option : 2 |
| <b>Options</b>  |                   |
| 1. Lal Bahadur Shastri  |                   |

- 2. Netaji Subhash Chandra Bose
- 3. Dr. S.Radhakrishnan
- 4. Mrs. Indira Gandhi

