II GRADE OVERSEER/DRAFTSMAN-CIVIL

EXAM DATE:28-12-2016

**1.The preamble of Indian Constitution prepared by**

A.Dr.Rajendra Prasad

B.Dr.B.R.Ambedkar

C.Jawaharlal Nehru\*

D.Vallabhai Patel

Ans:C

**2.Who is regarded as’Jhansi Rani’of Travancore?**

A.Ani Maskrine\*

B.Akkamma Cheriyan

C.A.V.Kuttimalu Amma

D.Anna Chandi

Ans:A

**3.Human Rights Commission came to exist in India**

A.1983 September 5

B.1993 September 28\*

C.1993 October 28

D.1983 September 25

Ans:B

**4.Who is said “No caste,No religion and No God to man”?**

A.Sree Narayana Guru

B.Sahodaran Ayyappan\*

C.Dr.Palpu

D.Ayyankali

Ans:B

**5.Among the following which is regarded as the ‘Protector of Indian Constitution’**

A.Parliament

B.Attorney General

C.Supreme Court\*

D.President

Ans:C

**6.Among the following who sang the song of ‘Vande Mataram’in the midnight** **meeting of Indian Independence?**

A.Latha Mangeshkar

B.Sarojini Naidu

C.Annie Besant

D.Sucheta Kripalani\*

Ans:D

**7.The first woman justice of Kerala High Court**

A.K.K.Usha

B.Sujatha Manohar\*

C.Anna Chandi

D.Omana Kunjamma

Ans:B

**8.The novel written by Swadeshabhimani Ramakrishna Pillai**

A.Ente Nadukadathal

B.Sara Samgraham

C.Narakathil Ninnu\*

D.Brandhalayam

Ans:C

**9.The novel ‘Nurayum Pathayum’written by**

A.Thakazhi Sivasankara Pillai\*

B.N.P.Muhammed

C.Vaikom Muhammed Basheer

D.Cherukad

Ans:A

**10.Who abolished slave trade in Travancore?**

A.Aviliam Thirunal

B.Rani Parvathi Bai

C.Rani Lakshmi Bai\*

D.Marthanda Varma

Ans:C

**11.The first national park in Kerala**

A.Silent valley

B.Mathiketttan Chola

C.Iravikulam\*

D.Pampadum Chola

Ans:C

**12.Who is called ‘Kerala Tagore’?**

A.P.Kunjiraman Nair

B.Vyloppilli

C.Ulloor

D.Vallathol\*

Ans:D

**13.’Adwaitha Chintha Padhadi’is the literary work of**

A.Sree Narayana Guru

B.Brahmanada Sivayogi

C.Chattambi Swamikal\*

D.Pandit K.P.Karuppan

Ans:C

**14.The aim of Rajiv Awaz Yojana**

A.Rural housing

B.Urban housing

C.Housing for SC and ST

D.Slum free India\*

Ans:D

**15.The eradication of unemployment programme of Kudumbashree known as**

A.Kerala Vilasam

B.Kerala Sree\*

C.Janashree

D.Ashwasa Kiran

Ans:B

**16.The publisher of the news paper ‘Al Ameen’**

A.Kandathil Varghese Mappila

B.Moulana Muhammed

C.Vakkam Abdul Khader Moulavi

D.Muhammed Abdul Rahman\*

Ans:D

**17.The leader of Guruvayoor Sathyagraha**

A.Mannath Padmanabhan

B.K.Kelappan\*

C.T.K.Madhavan

D.A.K.Gopalan

Ans:B

**18.The year of Vaikkom Sathyagraha**

A.1926

B.1932

C.1924\*

D.1923

Ans:C

**19.Herman Gundert is associated with which Christian Missionaries in Kerala?**

A.L.M.S

B.C.M.S

C.B.M.S

D.B.E.M\*

Ans:D

**20.How many satellites were launched by PSLV C 34 on its mission?**

A.17

B.21

C.22

D.20\*

Ans:D

**21.Sand stone is a**

**i.Sedimentary rock**

**ii.Aqueous rock**

**iii.Siliceous rock**

**The answer is**

A.only(i)

B.both(i)and (iii)

C.both(i)and(ii)

D.all(i),(ii)and (iii)\*

Ans:D

**22.If a number of forces are acting simultaneously on a particle,then the resultant** **of these forces will have the same effect as that of the applied forces.This** **principle is called**

A.Principle of physical independence of vectors\*

B.Principle of transmissibility of forces

C.Principle of reduction of forces

D.None of these

Ans:A

**23.The maximum settlement of raft foundation on clayey soil should be limited to**

A.25 mm

B.25 to 40 mm

C.40 to 65 mm

D.65 to 100 mm\*

Ans:D

**24.The least count of prismatic compass is**

A.10’

B.30’

C.15’\*

D.20’

Ans:C

**25.If the magnetic bearing of the sun at a place at noon in Southern hemisphere** **is 1670,the magnetic declination at that place is**

A.770N

B.230S

C.130E\*

D.130W

Ans:C

**26.Ratio of inertia force to viscous force is called**

A.Reynold’s Number\*

B.Froude’s Number

C.Weber Number

D.Euler’s Number

Ans:A

**27.The ordinates of curve 3,4,6,7,10,12 and 15 cm respectively at a common** **distance of 3 cms.The area using Trapezoidal rule will be equal to**

A.’134 cm^(2)’

B.’144cm^(2)’\*

C.’154 cm^(2)’

D.’164 cm^(2)’

Ans:B

**28.The unit of measurement of plastering is in**

A.Metres

B.Cum

C.Sqm\*

D.Ton

Ans:C

**29.The major ingredient of cement is**

A.Silica

B.Alumina

C.Iron oxide

D.Lime\*

Ans:D

**30.Priming is not required in**

A.Reciprocating Pumps\*

B.Centrifugal Pumps

C.Dynamic Pressure Pumps

D.Hand Pumps

Ans:A

**31.A portion of embankment having a uniform up gradient of 1 in 500 is circular** **with a radius of 1000 m of the centre line.It subtends 1800at the centre.If the** **height of the embankment is 1 m at the lower end and side slope is 2:1,the earth** **work involved is**

A.’26,000 m^(3)’

B.’26,500 m^(3)’

C.’27,000 m^(3)’

D.’27,500 m^(3)’\*

Ans:D

**32.The optimum depth for Kov watering of rice is**

A.135 mm

B.165 mm

C.190 mm\*

D.215 mm

Ans:C

**33.The expected out turn of 2.5 cm**

**Cement concrete flooring per mason per day is**

A.2.5 sq.m

B.5 sq.m

C.7.5 sq.m\*

D.215 mm

Ans:C

**34.A circle will appear as ------on an isometric drawing**

A.Ellipse\*

B.Circle

C.Cycloid

D.Parabola

Ans:A

**35.Lami’s theorem is applicable only for**

A.Coplanar forces

B.Non-concurrent forces

C.Coplanar and concurrent forces\*

D.None of these

Ans:C

**36.Slate is formed by the metamorphic action on**

A.Shale\*

B.Lime stone

C.Sand stone

D.Granite

Ans:A

**37.The number of bricks per cubic meter of brick masonry is**

A.400

B.450

C.500\*

D.550

Ans:C

**38.The type of roof which slopes in two directions with a break in the slope on** **each side is called**

A.Gable roof

B.Hip roof

C.Gambrel roof\*

D.Mansard roof

Ans:C

**39.Sum of tread and rise must lie between**

A.300 to 350 mm

B.400 to 450 mm\*

C.500 to 550 mm

D.600 to 650 mm

Ans:B

**40.In the construction of arches,sand box method is used for**

A.Centering

B.Actual laying of arch work

C.Striking of centering\*

D.None of these

Ans:C

**41.The slenderness ratio of masonry walls should not be more than**

A.10

B.20\*

C.30

D.40

Ans:B

**42.Pick up the portion not included in plinth area**

A.Wall

B.Room

C.Verandah

D.Courtyard\*

Ans:D

**43.Hydrographic survey deals with the mapping of**

A.Large water bodies\*

B.Rainfall data

C.Wave movement

D.None of these

Ans:A

**44.EDMI stands for**

A.Electronic Distance Measuring Instrument\*

B.Electrical Distance Measuring Instrument

C.Electronic Displacement Measuring Instrument

D.Electrical Diplacement Measuring Instrument

Ans:A

**45.GPS is a précised system to provide accurate timing and location launched by**

A.India

B.USA\*

C.Russia

D.China

Ans:B

**46.The moment of inertia of a triangular section with base ‘b’ and height’h’about** **an axis through the centre of gravity and parallel to the base is given as**

A.’(bh^(3))/(12)’

B.’(bh^(3))/(24)’

C.’(bh^(3))/(36)’\*

D.’(bh^(3))/(48)’

Ans:C

**47.If the resultant of two forces has the same magnitude as either of the** **forces,then the angle between the forces is**

A.300

B.600

C.450

D.1200\*

Ans:D

**48.One Newton is equivalent to**

A.1 kg.wt

B.9.81 kg.wt

C.981 dynes

D.1/9.81 kg.wt\*

Ans:D

**49.Crushing strength of a good building stones should be more than**

A.50 MPa

B.100 MPa\*

C.150 MPa

D.200 MPa

Ans:B

**50.The percentage of Alumina in good brick earth lies between**

A.20 to 30%\*

B.40 to 50%

C.50 to 60%

D.70 to 80%

Ans:A

**51.Le Chatelier’s test is used to determine the**

A.Soundness of cement\*

B.Setting time of cement

C.Tensile strength of cement

D.Compressive strength of cement

Ans:A

**52.Basic purpose of retarder in concrete is**

A.To increase the initial setting time of cement paste in concrete\*

B.To decrease the initial setting time of cement paste in concrete

C.To render the concrete water tight

D.To improve the workability of concrete mix

Ans:A

**53.Theodolite is an instrument used for**

A.Tightening the capstan headed screw of level tube

B.Measurement of horizontal angles only

C.Measurement of vertical angles only

D.Measurement of both horizontal and vertical angles\*

Ans:D

**54.The process of turning the telescope about the vertical axis in horizontal plane** **is called**

A.Transiting

B.Reversing

C.Plunging

D.Swinging\*

Ans:D

**55.Scale on which three dimensions can be measured called**

A.Plain scale

B.Diagonal scale

C.Shrunk scale

D.Comparative scale\*

Ans:D

**56.As per Indian standard,length of one link in 30 m chain should be**

A.40 cm

B.30 cm

C.10 cm

D.20 cm\*

Ans:D

**57.Most suitable soil for highway embankment is**

A.Granular soil\*

B.Organic soil

C.Silts

D.Clays

Ans:A

**58.Which of the following lines is a part of dimension?**

A.Phantom lines

B.Extension lines\*

C.Break lines

D.Cutting plane lines

Ans:B

**59.If the sum of all forces acting on a body is zero,then the body may be in** **equilibrium provided the forces are**

A.Concurrent\*

B.Parallel

C.Like parallel

D.Unlike parallel

Ans:A

**60.In SI unit,unit of force and energy are respectively**

A.Newton and Watt

B.Dyne and Erg

C.Newton and Joules\*

D.Kg wt and Joule

Ans:C

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

A.00

B.300

C.450

D.900\*

Ans:D

**62.For testing compressive and tensile strength of cement,the cement mortar** **made by mixing cement and standard sand in the proportion of**

A.1:2

B.1:3\*

C.1:4

D.1:6

Ans:B

**63.The nominal size of modular brick with mortar joints is**

A.19 cmx19 cmx8 cm

B.19 cmx19 cmx9 cm

C.20 cmx10 cmx10 cm\*

D.20 cmx20 cmx10 cm

Ans:C

**64.Force polygon representing a set of forces in equilibrium is a**

A.Triangle

B.Closed polygon\*

C.Open polygon

D.Parallelogram

Ans:B

**65.Angles between two forces to make their resultant minimum and maximum** **are respectively**

A.00and 900

B.1800and 900

C.900and 1800

D.1800and 00\*

Ans:D

**66.Rate of change of angular momentum is equal to**

A.Force

B.Torque\*

C.Angular velocity

D.Impulse

Ans:B

**67.For a given velocity of a projectile,the range is maximum when the angle of** **projection is**

A.300

B.450\*

C.600

D.900

Ans:B

**68.Higher pitch of roof**

**i)Results in stronger roof**

**ii)Requires more covering material**

**iii)results in weaker roof**

**iv)require less covering material**

**The correct answer is**

A.i and iii\*

B.i and iv

C.ii and iii

D.ii and iv

Ans:A

**69.For masonry work with solid bricks consistency of mortar should be**

A.5 to 8 cm

B.9 to 13 cm\*

C.14 to 18 cm

D.19 to 23 cm

Ans:B

**70.The type of bond provided in brick masonry for carrying heavy loads is**

A.Single Flemish bond

B.Double Flemish bond

C.English bond\*

D.Zig-zag bond

Ans:C

**71.The triangular space formed between extra dos and horizontal line drawn** **through the crown of arch is called**

A.Haunch

B.Spandrel\*

C.Voussoirs

D.Skewbacks

Ans:B

**72.The principle of working of an optical square is based on**

A.Refraction

B.Reflection

C.Double refraction

D.Double reflection\*

Ans:D

**73.In an internal focusing type of telescope,the lens provided is**

A.Concave\*

B.Convex

C.Plano-convex

D.Plano-concave

Ans:A

**74.The rise and fall method provides complete check on**

A.Back sight

B.Foresight

C.Intermediate sight

D.All of these\*

Ans:D

**75.Which of these is an angle measuring instrument?**

A.Geodimeter

B.Tellurometer

C.Sextant\*

D.Telescope

Ans:C

**76.Which type of line is particular to section drawing?**

A.Break lines

B.Cutting plane lines\*

C.Phantom lines

D.Extension lines

Ans:B

**77.Manometer is used to measure**

A.Velocity of liquid

B.Atmospheric pressure

C.Difference in pressure between two points in a pipe

D.Pressure in pipe and channels\*

Ans:D

**78.1 atmospheric pressure is equivalent to**

A.1.315 kg f/Ecm^2

B.100 N

C.14.7 pascals

D.760 mm of Hg\*

Ans:D

**79.Half turn stair change their direction through**

A.900

B.1800\*

C.2700

D.450

Ans:B

**80.Which of the following methods of applying water may be used in rolling land?**

A.Boarder flooding\*

B.Check flooding

C.Furrow flooding

D.Free flooding

Ans:A

**81.Following staff readings were taken with a level,the instrument having been** **moved after third and sixth reading** **2,200,1,620,0.980,2.250,2.840,1.280,0.600,1.960,1.450 If R.L.of first point is** **100.000 m,then RL of last point is**

A.101.350

B.101.340\*

C.101.430

D.100.340

Ans:B

**82.The types of surveying which requires least office work is**

A.Tacheometry

B.Trigonometrical leveling

C.Plane table surveying\*

D.Theodolite surveying

Ans:C

**83.Intersection method of detailed plotting is most suitable for**

A.Forest

B.Urban area

C.Hilly area\*

D.Plains

Ans:C

**84.Stream lines and path lines always coincide in the case of**

A.Steady flow\*

B.Laminar flow

C.Uniform flow

D.Turbulent flow

Ans:A

**85.If in a closed traverse,sum of north latitudes is more than the sum of the South** **latitudes and also that the sum of west departures is more than the sum of east** **departures,the bearing of the closing line lies in the**

A.NE quadrant

B.SE quadrant\*

C.NW quadrant

D.SW quadrant

Ans:B

**86.Continuity equation is based on law of conservation of**

A.Momentum

B.Energy

C.Velocity

D.Mass\*

Ans:D

**87.Which of the following is used the measure discharge?**

A.Current meter

B.Venturi meter\*

C.Pitot tube

D.Anemometer

Ans:B

**88.The point in the immersed body through which the resultant pressure of liquid** **is taken to act is called**

A.Centre of gravity

B.Centre of buoyancy

C.Centre of pressure\*

D.Metacentre

Ans:C

**89.Sensitivity of bubble tube can be increased by**

A.Decreasing the length of bubble

B.Increasing the diameter of bubble tube\*

C.Increasing the viscosity of liquid

D.Decreasing the radius of curvature of tube

Ans:B

**90.Contour interval is**

A.Inversely proportional to the scale of map\*

B.Directly proportional to the flatness of ground

C.Larger for accurate works

D.Smaller for accurate works

Ans:A

**91.Error due to bad ranging is**

A.Cumulative,positive\*

B.Cumulative,negative

C.Compensating

D.Both 1 and 2

Ans:A

**92.First observation taken on turning point is**

A.Back sight

B.Foresight\*

C.Intermediate sight

D.None of these

Ans:B

**93.Pressure at the summit of a syphon is**

A.Equal to atmospheric pressure

B.Less than atmospheric pressure\*

C.Greater than atmospheric pressure

D.None of these

Ans:B

**94.If the fore bearing of a line is observed to be 12024’,then the back bearing of** **line is**

A.77036’

B.97036’

C.167036’

D.192024’\*

Ans:D

**95.The major loss of energy in long pipes is due to**

A.Sudden enlargement

B.Sudden contraction

C.Gradual contraction or enlargement

D.Friction\*

Ans:D

**96.At magnetic poles,the dip of magnetic needle is**

A.00

B.450

C.900\*

D.1200

Ans:C

**97.For a sphere of radius 15 cm moving with a uniform velocity of 2m/sec through** **a liquid of specific gravity 0.9 and dynamic viscosity 0.8 poise,the Reynold’s** **number will be**

A.300

B.500

C.675\*

D.603.5

Ans:C

**98.The instrument used in plane tabling for obtaining horizontal and vertical** **distance directly without resorting is called**

A.Alidade

B.Plane alidade

C.Telescopic alidade\*

D.Clinometer

Ans:C

**99.Water surface of a still pond represents**

A.Level surface\*

B.Horizontal surface

C.Spheroidal surface

D.Curved surface

Ans:A

**100.A bearing noted 450NE represents**

A.Quadrantal system\*

B.Whole circle system

C.Reduced bearing system

D.None of these

Ans:A