

WORK SUPERINTENDENT(NCA),SOIL CONSERVATION UNIT

EXAM DATE:28-04-2015

**1.The depth of foundation is greater than its width is known as:**

- A.Deep foundation**
- B.Shallow foundation
- C.Footing
- D.Grillage foundation

Ans:A

**2.Which is the process of taking out stones from natural bed of rock?**

- A.Cutting
- B.Quaring**
- C.Blending
- D.Swaning

Ans:B

**3.The roads connecting village with towns or cities are classified as:**

- A.Other district road**
- B.State highway
- C.Village road
- D.Minor district road

Ans:A

**4.A canal is generally lined:**

- A.When it is in cutting
- B.When it is on embankment
- C.When it is partly in cutting and partly in embankment
- D.When bed and banks of the canal consist of highly impervious soil**

Ans:D

**5.The dam is made of earth is known as:**

A.Coffer dam

**B.Earthen dam**

C.Timber dam

D.None of these

Ans:B

**6.A passometer:**

A.Arc measuring

**B.Number of paces covered**

C.Length of line

D.Countering

Ans:B

**7.As per 1 RC maximum width of a vehicle should be:**

A.3.8 meter

B.4 meter

**C.2.44 meter**

D.8 meter

Ans:C

**8.Cost of building by plinth area method is plinth area X:**

A.Cube rate

B.Rate

**C.Plinth area rate**

D.None of these

Ans:C

**9.Curing period of Damp proof course is:**

A.3 days

B.15 days

C.10 days

**D.7 days**

Ans:D

**10.When the cost of the estimate exceeds 10% or more ===== estimate is prepared**

**A.Revised**

B.Detailed

C.Cube rate

D.Plinth area

Ans:A

**11.The limit of water level in a still lake represents:**

A.Horizontal surface

B.Counter line

**C.Level surface**

D.Contour gradient

Ans:C

**12.The portion of traffic way that is used by pedestrians is only called:**

A.Side walk

B.Foot way

**C.Foot path**

D.Crown

Ans:C

**13.The initial setting time of cement should not be less than:**

- A.10 hours
- B.5 minutes
- C.30 minutes**
- D.All of these

Ans:C

**14.Seasoning of timber is the process of:**

- A.Removal of sap
- B.Drying of timber
- C.Removal of moisture
- D.All of these**

Ans:D

**15.Under surface of an arch is called:**

- A.Crown
- B.Intrados
- C.Soffit**
- D.Skew back

Ans:C

**16.The size of title block for all size of drawing sheet is 185 MM x-----MM.**

- A.65**
- B.100
- C.50
- D.All of these

Ans:A

**17.Grillage foundation is classified as a -----foundation.**

- A.Deep foundation

B.Stepped foundation

C.Footing

**D.Shallow foundation**

Ans:D

**18.A track is considered as high speed track when the speed of running train:**

**A.120 km/hr or more**

B.50 km/hr or more

C.70 km/hr or more

D.90 km/or more

Ans:A

**19.When the canal run above the drain:**

A.Canal siphon

**B.Aqueduct**

C.Super passage

D.None of these

Ans:B

**20.The initial setting of cement is extended using:**

A.Sand

B.Earth

**C.Gypsum**

D.None of these

Ans:C

**21.Arrangement of brick in layer which does not continuous vertical joint as known as:**

A.Stone masonry

**B.Bond**

C.Brick masonry

D.None of these

Ans:B

**22.Unit of bearing capacity of soil:**

**A.Kg/cm<sup>2</sup>**

B.mm

C.kg

D.sqm

Ans:A

**23.Which test is conducted to check the proper grinding of cement?**

A.Chemical

B.Setting time

C.Soundness

**D.Fineness**

Ans:D

**24.Which substance is used as termite proofing material?**

A.DPV

**B.PVC**

C.BHC

D.None of these

Ans:B

**25.Which substance is prepared from resins?**

**A.Varnish**

B.Paint

C.Destember

D.None of these

Ans:A

**26.Isometric drawing are at-----degree from place.**

A.15°

B.5°

C.45°

**D.30°**

Ans:D

**27.The wall constructed on both sides of the abutments are called:**

**A.Wing wall**

B.Approach

C.Wheel guards

D.All of these

Ans:A

**28.Main reinforcement for cantilever beam is place at the -----position.**

A.Bottom

**B.Top**

C.Middle

D.None of these

Ans:B

**29.The width of a stap is called:**

A.Rise

B.hand rail

**C.Thread**

D.Crown

Ans:C

**30.-----is provided over opening of walls.**

A.Stair

**B.Lintel**

C.Step

D.None of these

Ans:B

**31.1M3 of brick masonry contains-----no .of bricks.**

A.750

B.1000

**C.500**

D.10000

Ans:C

**32.Dimension line should be placed at about-----mm from the outlines.**

**A.8**

B.6

C.10

D.5

Ans:A

**33.Drawing of building are drawn using:**

A.Enlarging

**B.Reducing**

C.Full scale

D.None of these

Ans:B



**34.A temporary structure erected to a wall for work:**

**A.Scaffold**

B.String

C.DPC

D.Shoring

Ans:A

**35.The centre stone of an arch is called:**

A.Intrados

**B.Crown**

C.Extrados

D.Skew back

Ans:B

**36.The handrail stair case is supported by:**

A.Flight

B.Spring

C.Thread

**D.Balusters**

Ans:D

**37.The minimum height of parapet for small culvert is:**

**A.30 cm**

B.40 cm

C.50 cm

D.60 cm

Ans:A

**38.Rectangular tunnels are generally used for:**

A.Carry water

B.Carrying water under pressure

**C.Pedestrians**

D.Carry road and railways

Ans:C

**39.Among the following which one is not an example for suspension bridge?**

**A.Flying bridge**

B.Ramp bridge

C.Sling bridge

D.Trestel suspension bridge

Ans:A

**40.Tool for threading pipes:**

A.Chisel

**B.Dies**

C.Hammer

D.Screw

Ans:B

**41.Which is the passage for the flow of surplus water in a weir?**

A.Rectangular

B.Head work

C.Weir

**D.Spill way**

Ans:D

**42.Shapes in tunnels:**

A.Circular

B.Rectangular

C.Horse shoe

**D.All of these**

Ans:D

**43.Which is the rain water of locality?**

A.Refuse

**B.Storm water**

C.Cold water

D.None of these

Ans:B

**44.The relation between duty D in hectare leummec depth of water A in meters and base period B in days is given by:**

**A. $\Delta=8.64 B/D$**

B.  $\Delta=8.64 D/B$

C.  $\Delta=8.64 BD$

D.  $\Delta=8.64/BD$

Ans:A

**45.Which test is conducted by bearing capacity of soil?**

A.Vical apparatus

**B.Plate load test**

C.Soundness

D.None of these

Ans:B

**46.The slide slope of embankment for railway track is taken as:**

A.4:1

B.1:2

**C.2:1**

D.1:4

Ans:C

**47.From the septic tank effluents are discharged into:**

A.Sump

B.Effluent treatment plant

C.In the view

**D.Soak pit**

Ans:D

**48.The total depth of water required to be supplied during the entire period of crop is known as:**

**A.Delta**

B.Rabi

C.Alpha

D.Base period

Ans:A

**49.R.C.C. Stands for:**

A.Reinforced Cast Cement

**B.Reinforced Concrete Cement**

C.Raw Cement Concrete

D.None of these

Ans:B

**50.The unit of earth work excavation:**

A.m

B.cm

**C.m<sup>3</sup>**

D.None of these

Ans:C

**51.The minimum diameter of a sewer pipe should be:**

A.1 cm

B.5 cm

C.10 cm

**D.15 cm**

Ans:D

**52.The grade of concrete M200 is means that the compressive strength of 15 cm cube offer 28 days should be:**

A.100Kg 1 square cm

B.180 k/square cm

**C.200 kg/square cm**

D.180 kg/square cm

Ans:C

**53.Which value is the value of dismantled materials?**

A.Market value

B.Salvage value

**C.Scrap value**

D.Book value

Ans:C

**54.Method of valuation:**

A.Rental 1 method

B.Direction compaction with the capital value

C.Valuation based on profit

**D.All of these**

Ans:D

**55.Conversion factor to convert wet mortar into dry mortar is:**

**A.1.2**

B.1.54

C.1.25

D.None of these

Ans:A

**56.A solid metal cylinder of radius 14 cm and height 21 cm is melted and recast into spheres each of radius 3.5 cm.Calculate the number of spheres:**

A.0.343

**B.72**

C.24

D.36

Ans:B

**57.The area of a sector is  $22 \text{ cm}^2$ ,find the perimeter of angle of sector is  $30^\circ$ :**

A. $812 \text{ cm}^2$

**B. $864 \text{ cm}^2$**

C. $672 \text{ cm}^2$

D.18.32 cm

Ans:B

**58.The diagonals of a rhombos are 36 cm and 24 cm,find its area:**

A. $812 \text{ cm}^2$

B. $864 \text{ cm}^2$

C.672 cm<sup>2</sup>

**D.432 cm<sup>2</sup>**

Ans:D

**59.A bucket of base dia 24 cm,top dia 40 cm and height 30 cm is filled with water find the weight of water:**

**A.25.34 kg**

B.34.45 kg

C.32.42 kg

D.18.48 kg

Ans:A

**60.Find the area of a sector of a circle whose radius is 14 cm and the length of the arc of sector is 28 cm:**

A.44 cm<sup>2</sup>

B.360 cm<sup>2</sup>

**C.196 cm<sup>2</sup>**

D.302 cm<sup>2</sup>

Ans:C

**61.Find the volume of a hemisphere of diameter 17 cm:**

A.972 CC

B.1156 CC

C.2572 CC

**D.1286 CC**

Ans:D

62.

63.

**64.Surface area of a cube with side'a'cm is:**

A.a<sup>3</sup>

B.a<sup>2</sup>

C.3a<sup>2</sup>

**D.6a<sup>2</sup>**

Ans:D

**65.The volume of right cone having base radius r and height h is given as:**

**A. $\frac{1}{3} \pi r^3$**

B. $\pi r^2 h$

C. $\frac{4}{3} \pi r^3$

D. $\frac{2}{3} \pi r^3$

Ans:A

**66.The volume of cylinder with radius r and height h is given by:**

**A. $\pi r^2 h$**

B. $\frac{1}{3} \pi r^2 h$

C. $\pi r^2 h/3$

D. $\frac{2}{3} \pi r^3$

Ans:A

**67.The volume of a cube with side a is given by:**

A.a<sup>2</sup>

**B.A<sup>3</sup>**

C.6a<sup>2</sup>

D.6a<sup>3</sup>

Ans:B

**68.Volume of a cube with side 7 cm is:**

A.49



B.294

**C.343**

D.140

Ans:C

**69.Find the side of a square plot whose area is 38.44 m<sup>2</sup>**

A.5.6m

B.3.8 m

C.6.9m

**D.6.2m**

Ans:D

**70.Find the area of right angled triangle having base 10 cm and height 5 cm:**

A.50 cm<sup>2</sup>

**B.25 cm<sup>2</sup>**

C.100 cm<sup>2</sup>

D.15 cm<sup>2</sup>

Ans:B

**71.-----is provided on the road edge to serve as a emergency lane for vehicles compelled to taken out of the pavement.**

A.Kerb

**B.Shoulder**

C.Carriage Way

D.Gradient

Ans:B

**72.The brick laid with its breadth parallel to the face of a wall is known as:**

A.Stretch bond

B.Zigzag bond

C.Garden wall bond

**D.Header bond**

Ans:D

**73.Bearing pile is situated in:**

**A.Hard startum**

B.Water

C.Above ground level

D.none of these

Ans:A

**74.The camber provided for gravel road is:**

A.1 in 20

B.1 in 45

C.1 in 24

**D.1 is 30**

Ans:D

**75.Rabi crop are sown and harvested in the month of:**

A.April and September

**B.October and March**

C.February and June

D.January and May

Ans:B

**76.The rate of rise or fall of formation level of a road along its alignment is called:**

A.Kerb

B.Camber

**C.Gradient**

D.Road alignment

Ans:C

**77.Which is the ratio of M200 grade concrete given below?**

A.1:2:4

B.1:1:2

**C.1:11/2:3**

D.1:3:6

Ans:C

**78.What is the clear cover required for beam?**

**A.25 mm**

B.20 mm

C.40 mm

D.15 mm

Ans:A

**79.The centre to centre distance between two adjacent supports of a bridge is called:**

A.Total spam

B.Clean span

**C.Span**

D.Length of bridge

Ans:C

**80.The over burned,irregular shape,dark colour brick is known as:**

A.IIIrd class brick

**B.IVth class brick**

C.1<sup>st</sup> class brick

D.Ind class brick

Ans:B

**81.Vanar Sena-an organization of youth which assisted Indian freedom struggle was founded by:**

A.Kamala Nehru

B.Vljayalakshmi Pandit

C.Aruna Asaf Aji

**D.Indira Gandhi**

Ans:D

**82.The rain-Shadow region of Kerala:**

A.Palakkad

**B.Chinnar**

C.Punalur

D.Lekkidi

Ans:B

**83.Social reformer who was honored with the title “Bharata Kesari”?**

A.K.P.Kesava Menon

B.T.K.Madhavan

C.K.Kelappan

**D.Mannathu Padmanabhan**

Ans:D

**84.The first secretary of SNDP yogam:**

A.Sri Narayana Guru

B.Dr.Palpu

**C.Kumaran Asan**

D.Sahodaran Ayyappan

Ans:C

**85."Jaathikkummi" is a poem by:**

**A.K.P.Kuruppan**

B.T.K.C.Vaduthala

C.Kumaran Asan

D.Chattambi Swami

Ans:A

**86."Kannerum Kinavum" is the autobiography of:**

A.K.P. Kesava Menon

**B.V.T.Bhattathirippad**

C.Lalithambika Antharjanam

D.K.Saraswathi Amma

Ans:B

**87.Magnus Carison belongs to:**

A.Russia

B.USA

C.Belgium

**D.Norway**

Ans:D

**88.Dilma Rouseff elected President of Brazil as a candidate of:**

A.Democratic movement

**B.Workers party**

C.Social Democratic party

D.Republication party

Ans:B

**89.Rohit Sharma Scored his second Double Century in ODI for India against:**

**A.Sri Lanka**

B.West Indies

C.Bangladesh

D.England

Ans:A

**90.Headquarters of “New Development Bank”**

A.Cape Town

B.Moscow

**C.Shanghal**

D.Rio-do-Janeiro

Ans:C

**91.The largest producer of mango:**

A.China

**B.India**

C.Thailand

D.Pakistan

Ans:B

**92.Indian state having largest deposit of Bauxite:**

**A.Orissa**

B.Gujarat

C.Maharashtra

D.Jharkhand

Ans:A

**93.Almatti Dam is on the river:**

**A.Krishna**

B.Cauveri

C.Amaravati

D.Godavari

Ans:A

**94.Planning Commission of India was established in:**

A.1947

B.1948

C.1949

**D.1950**

Ans:D

**95.The 121<sup>st</sup> amendment of Indian constitution is related with:**

A.Right to Education

B.Prohibition of child labour

**C.Judicial appointment**

D.Jan Lokpal

Ans:C

**96.Dharasana salt satyagraha was led by:**

A.Mahatma Gandhi

B.Sardar Patel

**C.Sarojini Naidu**

D.Vinobha Bhave

Ans:C

**97.The British Viceroy dukng the formation of Indian National Congress:**

A.Lord Rippon

**B.Lord Dufferin**

C.Lory Lytton

D.Landsdowne

Ans:B

**98.The Brahma Vidya Mandir of Paunar was established by:**

A.Vivekananda

B.Arabindo Ghosh

C.Dayanand Saraswati

**D.Vinobha Bhave**

Ans:D

**99.B.R.Ambedkar was associated with:**

**A.Republication Party**

B.Swatatra Party

C.Justice Party

D.Socialist Party

Ans:A

**100.Founder of United Patriotic Association:**

A.Abdul Kalam Azad

B.Muhammed Ali

**C.Syed Ahamed Khan**

D.Salimullah Khan

Ans:C