Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - Estimation and Costing
Course Code -DCE-404

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Answer all the questions. Each question carry one mark.

9.   1.The rate of an item of work depends on

Mark only one oval.

◯ Specifications of works

◯ Specifications of materials

◯ Proportion of mortar

◯ All the above

10. 2.The main factor to be considered while preparing a detailed estimate, is

Mark only one oval.

⬭ Quantity of the materials

⬭ Availability of materials

⬭ Transportation of materials

⬭ All the above

11. 3.Pick up the correct statement from the following:

Mark only one oval.

⬭ he estimated value of the work excluding the amount for contingencies, work charged establishment, tool and plants, is called work value

⬭ The actual expenditure involved to complete a work including incidental, establishment and travelling charges, is called actual cost

⬭ The formal acceptance by the administrative department for incurring an expenditure on the work, is called administrative approval

⬭ All the above

12. 4.The plinth area of a building not includes

Mark only one oval.

⬭ Area of the walls at the floor level

⬭ Internal shaft for sanitary installations up to 2 sq m. in area

⬭ Lift and wall including landing

⬭ Area of cantilevered porch

13.   5.While estimating a reinforced cement structure, the omitted cover of concrete is
       assumed

       Mark only one oval.

       ◯ At the end of reinforcing bar, not less than 25 mm or twice the diameter of the bar

       ◯ In thin slabs, 12 mm minimum or diameter of the bar whichever is more

       ◯ For reinforcing longitudinal bar in a beam 25 mm minimum or diameter of the largest
         bar which is more

       ◯ All the above

14.   6.While estimating the qualities for the construction of a building, the correct
       metric unit is

       Mark only one oval.

       ◯ Meter for length

       ◯ Cubic metre for area

       ◯ Square meters for volume

       ◯ Liter for capacity

15.   7.The brick work is not measured in cu m in case of

       Mark only one oval.

       ◯ One or more than one brick wall

       ◯ Brick work in arches

       ◯ Half brick wall

       ◯ Reinforced brick work

16.　8.Pick up the incorrect statement from the following:

Mark only one oval.

　　◯ Lead is the average horizontal straight distance between the borrow pit and the place of spreading soil

　　◯ The unit of lead is 1 km where the lead exceeds 2 km

　　◯ The lead is calculated for each block of the excavated area

　　◯ The unit of lead is 50 m for a distance upto 500 m

17.　9.The assumption on which the trapezoidal formula for volumes is based, is

Mark only one oval.

　　◯ The end sections are parallel planes

　　◯ The mid-area of a pyramid is half the average area of the ends

　　◯ The volume of the Prismoidal is over-estimated and hence a Prismoidal correction is applied

　　◯ All the above

18.　10.In the mid–section formula

Mark only one oval.

　　◯ The mean depth is the average of depths of two consecutive sections

　　◯ The area of mid-sections is calculated by using mean depth

　　◯ The volume of the earth work is calculated by multiplying the mid-section area by the distance between the two original sections

　　◯ All of the above

19. 11.Pick up the correct statement regarding the centre line method of estimating a building

Mark only one oval.

    ◯ Product of the centre line of the walls and area of cross-section of any item, gives total quantity of the item

    ◯ The centre line is worked out separately for different sections of walls of a building

    ◯ The centre line length is reduced by half the layer of main wall joining the partition wall

    ◯ All the above

20. 12.According to Indian Standards Institute, the actual size of modular bricks is

Mark only one oval.

    ◯ 23 cm × 11.5 cm × 7.5 cm

    ◯ 25 cm × 13 cm × 7.5 cm

    ◯ 19 cm × 9 cm × 9 cm

    ◯ 20 cm × 10 cm × 10 cm

21. 13.The measurement is made in square metre in case of

Mark only one oval.

    ◯ Cement concrete in foundation

    ◯ R.C.C. structure

    ◯ Cement Plaster

    ◯ Hollow concrete block wall

22.　14.Cost of fittings and their fixing is specified for the following sanitary fittings

Mark only one oval.

◯ Water closets

◯ Flushing pipes

◯ Lavatory basins

◯ All the above

23.　15.The excavation exceeding 1.5 m in width and 10 sq.m in plan area with a depth not exceeding 30 cm, is termed as

Mark only one oval.

◯ Excavation

◯ Surface excavation

◯ Surface dressing

◯ Cutting

24.　16.For the construction of buildings, the subheads of the estimate are

Mark only one oval.

◯ Earthwork, Concrete work, Brick work

◯ Brickwork, Stone work, Roofing

◯ All the above

◯ Brickwork Flooring, Wood work, Steel work

25.   17.Pick up the correct statement from the following:

Mark only one oval.

◯ All the above

◯ Glazing is measured in sq.m

◯ Plastering is measured in sq.m

◯ Pointing is measured in sq.m

26.   18.In long and short wall method of estimation, the length of long wall is the centre to centre distance between the walls and

Mark only one oval.

◯ Breadth of the wall

◯ Half breadth of wall on each side

◯ One fourth breadth of wall on each side

◯ None of these

27.   19.The expected out turn of cement concrete 1 : 2 : 4 per mason per day is

Mark only one oval.

◯ 1.5 m3

◯ 2.5 m3

◯ 3.5 m3

◯ 5.0 m3

28.   20.The area is measured correct to the nearest

Mark only one oval.

⬭ 0.01 sqm

⬭ 0.02 sqm

⬭ 0.03 sqm

⬭ 0.04 sqm

29.   21.The measurement is not made in square meters in case of

Mark only one oval.

⬭ D.P.C. (Damp proof course)

⬭ Form works

⬭ Concrete Jeffries

⬭ R.C. Chhajja

30.   22.The unit of measurement is per quintal for the following:

Mark only one oval.

⬭ Collapsible gates with rails

⬭ Rolling shutters

⬭ M.S. reinforcement of R.C.C. works

⬭ Expanded metal wire netting

31. 23.Due to change in price level, a revised estimate is prepared if the sanctioned estimate exceeds

Mark only one oval.

○ 5.0 %

○ 4.0 %

○ 0.025

○ 2.0 %

32. 24.While preparing a detailed estimate

Mark only one oval.

○ Dimension should be measured correct to 0.01 m

○ All the above

○ Volume should be measured correct to 0.01 cum

○ Area should be measured correct to 0.01 sqm

33. 25.The most reliable estimate is

Mark only one oval.

○ Detailed estimate

○ Preliminary estimate

○ Plinth area estimate

○ Cube rate estimate

34. 26.Anti-siphonage pipe is connected to

Mark only one oval.

◯ Main soil pipe

◯ Bottom of P trap W.C.

◯ Top of P trap W.C.

◯ Side of water closet

35. 27. A portion of an embankment having a uniform up-gradient 1 in 500 is circular with radius 1000 m of the centre line. It subtends 180° at the centre. If the height of the bank is 1 m at the lower end, and side slopes 2:1, the earth work involved.

Mark only one oval.

◯ 27,500 m3

◯ 27,000 m3

◯ 26,500 m3

◯ 26,000 m3

36. 28.Pick up the correct statement in case of water supply.

Mark only one oval.

◯ Pipes are classified according to their sizes and quality

◯ All the above

◯ Cutting through walls and floors are included with the item

◯ Pipes laid in trenches and pipes fixed to walls are measured separately

37.   29.The concrete work for the following part of the building of specified thickness is
        measured in square meters

Mark only one oval.

⬭ All the above

⬭ Wall panels

⬭ Floors

⬭ Root slabs

38.   30.The expected out turn of 12 mm plastering with cement mortar is

Mark only one oval.

⬭ 6.0 sq m

⬭ 4.0 sq m

⬭ 8.0 sq m

⬭ 2.5 sq m

39.   31.The measurement is made for stone work in square metre in case of

Mark only one oval.

⬭ Wall facing

⬭ Columns, lintels, copings

⬭ Building work

⬭ (a) and (d) of the above

40.　　32. The correct Prismoidal formula for volume is

Mark only one oval.

○ D [first area + last area + Σ Even area + 2 Σ odd areas]

○ D/3 [first area + last area + 4 Σ Even area + 2 Σ odd areas]

○ D/3 [first area + last area + 2 Σ Even area + 4 Σ odd areas]

○ D/6 [first area + last area + 2 ∑ Even area + 4 ∑ odd areas]

41.　　33.The inspection pit or chamber is a manhole provided in a base drainage system

Mark only one oval.

○ All the above

○ At every 30 m intervals

○ At every change of gradient

○ At every change of direction

42.　　34. Pick up the incorrect statement from the following:

Mark only one oval.

○ The built up covered area at the floor level of any storey of a building is called plinth area

○ None of these

○ The carpet area of a building along with area of its kitchen, pantry, store, lavatory, bath room and glazed veranda, is called floor area

○ The usable covered area of the rooms of any storey of a building is called carpet area

43.   35.The order of booking dimensions is

Mark only one oval.

⬭ Length, breadth, height

⬭ Breadth, length, height

⬭ Height, breadth, length

⬭ None of these

44.   36.The area of a sloping surface of a protective embankment of mean height'd', side slopes S: 1 and length 'L' is

Mark only one oval.

⬭ d × d × s

⬭ √[d2 × (ds)2]

⬭ L.D √(1 + s2)

⬭ 2 L.D √(1 + s2)

45.   37.If B is the width of formation, d is the height of the embankment, side slope S : 1, for a highway with no transverse slope, the area of cross-section is

Mark only one oval.

⬭ B + d + Sd

⬭ Bd + Sd2

⬭ B × d - Sd1/2

⬭ ½ (Bd + Sd2)

46.   38.Pick up the item of work not included in the plinth area estimate

Mark only one oval.

◯ Courtyard area

◯ W.C. area

◯ Room area

◯ Wall thickness

47.   39. Pick up the item whose weight is added to the weight of respective item, is

Mark only one oval.

◯ Cleats

◯ Brackets

◯ Bolts

◯ All the above

48.   40. The expected out turn of brick work in cement mortar in foundation and plinth per mason per day, is

Mark only one oval.

◯ 1.00 m3

◯ 1.25 m3

◯ 1.50 m3

◯ 1.75 m3

49. 41.The height of the sink of wash basin above floor level is kept

Mark only one oval.

◯ 60 cm

◯ 70 cm

◯ 75 cm to 80 cm

◯ 80 cm

50. 42.The item of steel work which is measured in sq.m, is

Mark only one oval.

◯ Collapsible gates

◯ Rolling shutters

◯ Ventilators and glazing

◯ All the above

51. 43.The volume is measured correct to the nearest

Mark only one oval.

◯ 0.01 cum

◯ 0.02 cum

◯ 0.03 cum

◯ 0.04 cum

52.   44.For 100 sq. m cement concrete (1 : 2: 4) 4 cm thick floor, the quantity of cement required, is

Mark only one oval.

◯ 0.90 m3

◯ 0.94 m3

◯ 0.98 m3

◯ 1.00 m3

53.   45.The expected out turn of half brick partition wall per mason per day is

Mark only one oval.

◯ 1.5 m3

◯ 2.0 m3

◯ 4.0 m2

◯ 5.0 m2

54.   46.The floor area includes the area of the balcony up to

Mark only one oval.

◯ 1

◯ 75 %

◯ 0.5

◯ 25 %

55.   47.Berms are provided in canals if these are

Mark only one oval.

⬭ Fully in excavation

⬭ Partly in excavation and partly in embankment

⬭ Fully in embankment

⬭ All the above

56.   48.The slope of the outlet of 'P trap' below the horizontal is kept

Mark only one oval.

⬭ 8°

⬭ 10°

⬭ 12°

⬭ 14°

57.   49.If tensile stress of a steel rod of diameter

Mark only one oval.

⬭ 30 D

⬭ 39 D

⬭ 50 D

⬭ 59 D

58.   50.The brick work is measured in sq metre, in case of

Mark only one oval.

⬭ Honey comb brick work

⬭ Brick flat soling

⬭ Half brick walls or the partition

⬭ All the above

59.   51.Pick up the item whose weight is added to the weight of respective item, is

Mark only one oval.

⬭ Cleats

⬭ Brackets

⬭ Bolts

⬭ All the above

60.   52.If B is the width of formation, d is the height of the embankment, side slope S : 1, for a highway with no transverse slope, the area of cross- section is

Mark only one oval.

⬭ B + d + Sd

⬭ Bd + Sd2

⬭ B × d − Sd1/2

⬭ A. ½ (Bd + Sd2)

61.   53.period in a septic tank is assumed The detention

Mark only one oval.

⬭ 20 minutes

⬭ 25 minutes

⬭ 30 minutes

⬭ 40 minutes

62.   54.The diameter of a domestic sewer pipe laid at gradient 1 in 100 is recommended

Mark only one oval.

⬭ 100 mm

⬭ 150 mm

⬭ 200 mm

⬭ 175 mm

63.   55.The unit of measurement is per quintal for the following:

Mark only one oval.

⬭ Collapsible gates with rails

⬭ Rolling shutters

⬭ Expanded metal wire netting

⬭ A. M.S. reinforcement of R.C.C. works

64.   56.The 'centre line method' is specially adopted for estimating

Mark only one oval.

    ◯ Circular buildings

    ◯ Hexagonal buildings

    ◯ Octagonal buildings

    ◯ All the above

65.   57.In case of laying gullies, siphons, intercepting traps, the cost includes

Mark only one oval.

    ◯ All of these

    ◯ Connection to drains

    ◯ Bed concreting

    ◯ Setting and laying

66.   58.The cross –sectional area of the embankment of a canal fully in embankment in the given figure is

Mark only one oval.

    ◯ ½ (+ +) h

    ◯ ( ) h + sb²

    ◯ (+) + 2sh²

    ◯ 2 [(+) (b + sh²)]

67.   59.The cost of the earthwork in excavation for the surface drain of cross- section shown in the given figure for a total length of 5 metres @ Rs. 450% cum, is

Mark only one oval.

⬭ Rs. 400

⬭ Rs. 425

⬭ Rs. 450

⬭ Rs. 500

68.   60.The rate of payment is made for 100 cu m (per % cu m) in case of

Mark only one oval.

⬭ Earth work in excavation

⬭ Rock cutting

⬭ Excavation in trenches for foundation

⬭ All the above

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