



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22
Programme – Diploma in Civil Engineering
Course Name – Construction and Disaster Management
Course Code - DCE602
(Semester VI)

Time: 1 Hr.15 Min.

c) the office area is being cleaned

ng node

(7) Earliest finish of an activity is always

a) greater than earliest event time of the followi

Full Marks: 60

[The figure in the margin indicates full marks.]

Group-A 1 x 60=60 (Multiple Choice Type Question) Choose the correct alternative from the following: (1) Which of the following is not a PERT event? b) sessional work completed a) site investigation started d) class is being attended c) bus starts from Jaipur (2) Select the incorrect statement b) Total float can be either start float or finish fl a) Start float and finish float are always equal. d) Start float and finish float are the differences c) Start float and finish float need not be equal between activity times and not event times. (3) Critical path b) is always shortest a) is always longest d) may be shortest c) may be longest (4) The direct cost of a project with respect to normal time i b) maximum a) minimum d) infinite c) zero (5) In resources levelling b) total duration of project is increased a) total duration of project is reduced c) uniform demand of resources is achieved d) cost of project is controlled (6) Which of the following does not represent an activity? b) foundation is being dug a) site located

node

d) the invitations are being sent

b) less than earliest event time of the following

c) less than or equal to earliest event time of th

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d) greater than or equal to earliest event time of

ing are respect	LIBRARY LIBRARY
ely, then its expected time and variance are respec	b) 5 and 25/36 Brain 3(9)125
a) 3.5 and 5/6	d) 4 and 5/6
c) 3.5 and 25/36	
(20) Free float for any activity is defined as the difference of the control of t	b) its latest start time and earliest start time
a) its earliest finish time and earliest start time f or its successor activity	
c) its latest finish time and earliest start time for	d) its earliest finish time and latest start time for its successor activity
its successor activity	This successor development is known as
its successor activity (21) The time with which direct cost does not reduce	b) normal time
a) crash time	d) standard time
c) optimistic time	eduling or replanning is called
(22) The process of incorporating changes and resche	b) resource smoothening
a) resource levelling	d) critical path scheduling
c) updating	operation would be
(23) The constraints in case of resource smoothening	b) project duration time
a) resources	d) none of the above
c) both resources and project duration time	d) hone of the are
(24) Interfering float is the difference between	b) total float and independent float
a) total float and free float	d) none of the above
c) free float and independent float	
(25) Which of the following earth moving machines	s has the shortest eyele time
a) Drag line	b) Hoe d) Dipper shovel
c) Clam shell	
c) Clam shell (26) For a given size of bucket, the ideal output of a	b) Sand and gravel
a) Moist loam	b) Sand and graver
c) Good common earth	d) Wet sticky clay
(27) During the construction period, price variation	clause in contracts caters to
a) increase in rates of only important materials	 b) variation in cost in materials element, labour element and petrol-oil-lubricant element
 c) variation in total cost of the project on an ad hoc basis 	d) rate of inflation
(28) Grader is used mainly for	
a) trimming and finishing	b) shaping and trimming
c) finishing and shaping	d) finishing, shaping and trimming
(29) The most suitable type of equipment for com	paction of cohesive soils is
a) Smooth-wheeled rollers	b) Vibratory rollers
*	d) Tampers
c) Sheep foot rollers	
(30) Preliminary project report for a road project	b) the several alternatives of the project that ha
 a) the detailed estimated cost based on detailed design 	ve been considered
 c) the soil survey, traffic survey, concept design and approximate cost 	
(31) The technique for establishing and maintain roject, is known	ing priorities among the various jobs of a p
a) Event flow scheduling technique	b) Critical ratio scheduling

		d) Short interval scheduling.
	c) Slotting technique for scheduling	d) Short interval
	(32) Final technical authority of a project lies with	b) Executive Engineer
	a) Assistant Engineer	d) Chief Engineer.
	c) Superintending Engineer	d) Chief Engine
	(33) A Milestone chart	b) depicts the delay of jobs, if any
	a) shows the interdependencies of various jobs	
	 c) points outgoing ahead of schedule of jobs, if any 	d) none of these.
;	(34) A dummy activity	to the difference
9	a) is artificially introduced	b) is represented by a dotted line
	c) does not consume time	d) all the above.
	(35) Various activities of a project, are shown on bar	charts by
	a) vertical lines	b) horizontal lines
	c) dots	d) crosses.
	(36) The time by which activity completion time can f succeeding activities, is known as	be delayed without affecting the start o
	a) duration	b) total flat
	c) free float	d) interfering float.
	(37) Henry Gantt developed Bar charts for planning	
	a) 1880	b) 1900
	c) 1920	d) 1940
	(38) The most popular type of organisation used for (
	a) line organisation	b) line and staff organisation
	c) functional organisation	d) effective organisation.
	(39) The difference between the time avail-to do a jol known as	
	a) event	b) float
	c) duration	d) constraint.
	(40) Pick up the correct network for the activities of pk, removal of form work and curing of concrete:	Couring concrete erection of form wor
	a) 1. Pouring of Concrete 2. Erection of form w	
	ork 3. Curing of concrete 4. Removal of for m work	b) 1. Erection of form work 2. Pouring of concrete 3. Curing of concrete 4. Removal of form work
	c) 1. Removal of form work 2. Erection of form	d) 1. Pouring of concrete 2. Curing of concrete
	work 3. Pouring of concrete 4. Curing of concrete	3. Erection of form work 4. Removal of for m work
	(41) Site order book is used for recording	Profession to the first
	a) instructions by the executive engineers	b) construction measurements
	c) issue of store equipments	d) names of the casual labour.
((42) The estimated time required to perform an activit	ty is known as
	a) event	
	c) duration	b) dummy d) float.
((43) If the total float and duration of an activity are 5 a	and 10 days respectively, the particula
	a) started 5 days later	h) completed 5 days later
	· · · · · · · · · · · · · · · · · · ·	W. Cantillierer a nave late-

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c) performed at slower rate in 15 days	
(44) The first method invented for planning projects,	d) all the above
a) Bar chart method	b) Milestone chart
c) Critical path method (CPM)	d) Programme Evaluation and Review Techniq ue (PERT)
(45) If TL is the latest allowable event occurrence time	
a) LST-EST	b) LFT-EFT
c) TL-EFT	d) all the above.
(46) Modular co-ordination of construction means pr	oper
a) planning	b) designing d) all the above. LIBRARY Brainvers University Brainvers University
c) execution	d) all the above. Bratovicas -700125
(47) For the execution of a project, a contractor is	63. 4. 44
a) a person	b) a firm
c) an agency	d) all the above.
(48) The main disadvantage of line organisation, is	
a) rigid structure	 b) extraordinary delay in communications
c) top level executions over work	d) all the above.
(49) Pick up the correct statement from the following	g:
 a) The difference of latest occurence time and e arliest expected time, is called slack 	 b) The activities connecting the events having z ero slack, lie on the critical path
c) The critical path consumes the maximum tim	d) All the above.
(50) Residential buildings are treated as	
a) light construction	b) heavy construction
c) industrial construction	d) private construction.
(51) For completion of a project, the critical path of	f the network represents
a) minimum time	b) maximum time
c) maximum cost	d) minimum cost.
(52) Frequency distribution curves	
a) having a single lump, are called uninodal cur ves	b) if symmetrical, are called normal curves
c) if not symmetrical, are called skew curves	d) all the above.
(53) For which of the following materials, the outp	
a) Moist Ioam	b) Good common earth
c) Well blasted rock	d) Wet sticky clay
(54) If the output of a drag-line for 90° angle of s e output for 120° angle of swing at 120 % of	wing at optimum depth of cut is X, then th
a) Equal to X	b) More than X
c) Less than X	d) Any of the above
,	
(55) While filling the tender for any work, the con	b) Availability of construction materials
a) Site survey	
c) Availability of labour	d) All the above
(56) If the gross vehicle weight of a truck is 30 to hen the tractive effort required to keep the tr	onne and rolling resistance is 30 kg/tonne, t ruck moving at a uniform speed is

b) 300 kg
d) 1000 kg
is 8 years. The money is bollowed are at 8% interest per annum for 8 years is time will be
r at 8% interest per annual
' b) Ks. 3400
d) Rs. 6960
O. Its salvage value at the end of its useful
d) Rs. 6960 O. Its salvage value at the end of its total value at the end of two years of its useful of depreciation) will be
of depreciation,
b) Rs. 7,600
d) Rs. 5,000
b) Limited of event oriented diagrams
b) Lillined of
d) All the above
2. Blasting 3. Mucking 4. Placing steel arese operations in tunnel construction is
2. Blasting 3. Mucking to the see operations in tunnel construction is
b) 1, 3, 2, 4, 5
d) 1, 3, 4, 2, 5
u) 1, 3, 1, =, 5
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