MID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH

MID-SEMESTER EXAMINATION OF FROT SPECIFIC SCIENCE & TECHNOLOGY BE CEL (B&C)

SUBJECT: DV ENGINEERING DRAWING Time Allowed: 1 Hour Dated: 16.02.2022 NOTE: ATTEMPT ANY TWO (02) QUESTIONS ALL QUESTIONS CARRY EQUAL MARKS. ASSUME

Q. No.	Questions	сьо	Taxonomy Level	Marks
Q. 01	Distinguish between the following: (I) Architectural drawing and structural drawing (ii) line plan and working plan. (iii) Super-structure and sub-structure (iv) Horizontal circulation and Vertical circulation		C2	10
Q. 02	Draw a typical cross section of a wall and show	w 1	C2	10
Q. 03	Draw working plan and front elevation of a single room structure of size 16'x12'. The other detail given bellow. 1. Plinth height/Level from ground level =2' 2. Thickness of wall =1' 3. Height of lintel =6' 4. Ceiling level =12' 5. Thickness of RCC slab =6"	s	C2	10
	Assume a suitable scale.			

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH

MID-SEMESTER EXAMINATION OF FIRST SEMESTER-SECOND YEAR (390 SEMESTER) 2022, 20-BATCH, B.E (CE-C)

SUBJECT: SURVEYING II

Dated: 14.02.2021

Maximum Marks: 20

Time Allowed: 1 hour.

NOTE: ATTEMPT ANY TWO (02) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q.	Question Statement	сьо	Taxonomy Level	Mark	
No. Q. 01	How does geodetic surveying differ from plane surveying? Enlist different terms related to levelling.	CLO 1	3	10	
Q. 02	Define leveling. Discuss in detail different types of levelling.	CLO 1	3	10	
(T)	The following readings (in meter) were taken with a levelling instrument using the staff of 4m long. 2.0, 2.5, 3.1, 3.9, 0.6, 1.3, 2.0, 2.8, 2.1, 3.1, 0.9, 3.0, 1.2, 2.3, 0.8. The instrument was shifted after 4th, 9th, 11th and 13th reading. The first reading was taken on BM of RL 100m. Calculate RL of all points.	CLO 2	4	10	

Good Luck

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF FIRST SEMESTER-SECOND YEAR (300 SEMESTER) 2022, 20 BATCH, BE (CE) SUBJECT: ARCHITECTURE & TOWN PLANNING

NOTE: ATTEMPT ANY TWO (02) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

- 2.01 What do you know about architecture? Define in detail, the importance of architecture in Civil Engineering.
- 2.02 Describe in detail the production process of an architectural design. Define the factors which influence the architectural design process.
- Define proportions and scales. Define golden section in detail.

Good Luck

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH MID-SEMESTER EXAMINATION OF FIRST SEMESTER - SECOND YEAR (1990 SEMESTER) 2022, 20 BATCH, BLE (CE)

SUBJECT: STATISTICS & PROBABILITY

Dated: 15,02,2022

Maximum Marks: 20

Time Allowed: 01 Hour,

NOTE: ATTEMPT ANY TWO (02) QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q. No.	QUESTIONS	PLO	cro	Taxonomy Level	Marks
01	 (a) Prove that the mean square deviation is least when deviations are measured from mean. (b) Show that μ'₁ = x - a. 	PLO-2	CLO-1	C2	10
02	Derive the recurrence relations between μ_r ' and μ_r .	PLO-2	CLO-1	C2	10
03	 (a) If variables x_i assumes the values 0,1,2,, n with corresponding frequencies f_i (ⁿ₀), (ⁿ₁), (ⁿ₂),, (ⁿ_n). Find μ'₁ = x̄, μ'₂ and μ₂. (b) The distribution consists of three components with frequencies 210, 260 and 310 having means 25, 10, 15 and standard deviations 4,5,6. Find the mean of the combined distribution and its variance. 		CLO-1	C2	

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH NID-SEMESTER D'AMPIATION OF FRST SPIESTER - END YEAR DE SEMESTER) 2002, 20 PATCH, BE (CE)

Time Allowed: 1 Hour Dated: 18.02.2022 NOTE: ATTEMPT ANY TWO (02) QUESTIONS, QL

	ATTEMPT ANY TWO (02) QUESTIONS, QUESTION 3 IS COMPULSORY.	CLOs	Taxonomy Level	Marks
2.01	A hollow cast iron cylinder 4m long 300 mm outer diameter and thickness metal 50mm is subjected to a central load on the top when standing straight. The stress produced 75000 KN/m². Assume Young's modulus for cast-iron as 1.5x10 ⁴ KN/m² and find (i) Magnitude of the load (ii) Longitudinal strain produce (iii) Total decrease in length.	2	3	10
Q. 02	A tensile test was conducted on a mild steel bar. The following data was obtained from the test. Diameter of the steel bar = 3 cm Gauge Length of the bar = 20 cm Load at elastic limit = 250 kN Extension at a load of 150 kN = 0.21 mm Maximum Load = 380 kN Total extension = 60 mm Diameter of the rod at the failure = 2.25 cm Determine: (i) Young's modulus of elasticity (ii) Yield point stress (iii) Ultimate stress, and (iv) Percentage elongation	2	3	10
Q. 03 A.	Define following terms: 1. Poisson's Ratio 2. Ultimate Stress 3. Strain 4. Elasticity 5. Ductility	1	2	os
В.	Discuss the importance of "strength of materials" in the field of civil engineering.	1	2	05

GOOD LUCK

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAM

FINAL SEMESTER REGULAR EXAMINATION OF FIRST SEMESTER - SECOND YEAR 2022 OF 20-BATCH, BLE (CE-BAC)

SUBJECT: CIVIL ENGINEERING DRAWING

Maximum Marks: 60

Time Allowed: 3 Hours

NOTE: ATTEMPT ALL QUESTIONS, ALL QUESTIONS CARRY EQUAL MARKS, ASSUME SUITABLE SCALE AND OTHER DATA YOURSELF.

	Question	aos	Taxonomy Level	PLOS	м
Q. Na.		1	C2	1	
Q.01	What is the use of coping in building structures? Draw the brick copings and cement concrete copings.		СЗ	12	-
Q. 02	Develop a working plan and sectional elevation of R.C.C dog-legged stair case for a school building with following data. Width of stair=90cm Length of stair=360cm Height of stair/Rise of stair=160cm	-			
0.03	No. of steps=12. Draw the front elevation (front view) of a paneled and glazed Draw the front elevation (front view) of a paneled and glazed	2	C3	12	
4.05	11200mmx2100mm double leared door with a		сз	12	1
Q. 04	cantilever beam projecting 3.50m from support bellow. Clear span =3.50m Overall depth at fixed end =40cm Overall depth at free end =15cm =4-25mm dia bars with two bars curtailed at 1.5m from support =2-15mm dia bars =10mm dia stirrups @10cm c/c =300mm =300mm =300mm				
S	Line plan of a plot is given in figure, draw a working plan showing position of doors and windows. Also calculate the area of plot. Assume thickness of wall = 30cm.	2	C3	12	_

BED 1	ROOM c 3.50 m		LIVING RO 4.00 m × 3.	OM 60 m
BATH WC 1.50 × 2.50 m m	VE 2.:	ERANDAH 50 m WIDE		KITCHEN 2.0 m × 2.50 m

Line plan

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMINATION OF FIRST SEMESTER - SECOND YEAR 2022 OF 20 BATCH, B.E. (CE-C.)

SUBJECT: SURVEYING-II

Dated: 23.05.2022

Maximum Marks: 60

Time Allowed: 3 Hours

NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q. No.	Question Statement	ao	Taxonomy Level	Mark
	Describe in detail the methods of reduction of level and explain their merits and demerits?	1	3	12
). 02 (a)	Derive the distance equations for the tangential system of tachometry when both the sightings are angles of depression.	1	3	12
Q. 02 (b)	Two distances of 20 m and 100 m were accurately measured out and the intercepts on the staff between the outer stadia webs were 0.196 m at the former distance and 0.996 at the latter. Calculate the tacheometric constants.			
0.03	A tacheometer was setup at a station 'A' and the readings on a vertically held staff at BM were 1.2, 1.9 and 2.6. the line of sight being at an inclination of -6° 24'. Another observations on the vertically held staff at B gave the readings 0.8, 1.6, and 2.4, the inclination of the line of sight being +8° 20'. Calculate the horizontal distance between A and B, and the elevation of B if the RL of BM is 850.50 meters. The constants of the instruments were 100 and 0.15.	2	•	12
Q. 04 (a)	(a) What is transition curve & where it is used? How will you determine the length of transition curve and amount of super elevation to be provided?	2	1	12
Q. 04 (b)	The chainage of the intersection point of two straights is 1060 m, and the angle of intersection is 120°. If radius of a circular curve to be set out is 570 m, and peg interval is 30 m, determine the tangent length, the length of the curve, the chainage at the beginning and end of the curve, the length of the long chord, the lengths of the sub-chords, and the total number of chords.			
Q. 05 ₍ (a)	(a) Explain the different methods of plane tabling? State the advantages and disadvantages of plane table surveying.	1	3	12
Q. 05 (b)	Why hydrographic surveying is carried out? Differentiate different methods of bathymetric surveying.			



QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWAUSHAH FINAL SEMESTER REGULAR EXAMINATION OF FIRST SEMESTER - SECOND YEAR, 2072 OF 20 HATCH, ILE IGED

SUBJECT: STRENGTH OF MATERIALS-

Time Allowed: 3 Hours. Dated: 06.06.2022 Maximum Marks: 60

NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

	Questions	ao.	Tazonomy Level	PLO	Mat
Q. 01	Demonstrate shear force and bending moment of a simply supported beam subjected to various loads as shown in Figure by drawing shear force and bending moment diagram.	1	2	1	12
Q. 02	Show shear force and bending moment of a simply supported beam under various loads by drawing SFD and BMD. The loading condition of the beam is given in Figure.	1	2	1	12
). 03	A member LMNP is subjected to point loads as shown in figure. If E=210 GN/m³, Calculate (i) Force P necessary for equilibrium, (ii) Total elongation of the bar.	2	3	2	12
	A brass bar uniformly tapered from diameter 20mm at one end to diameter 10mm at the other end over an axial length 300mm is subjected to an axial compressive load of 7.5kN. If E = 100 kN/mm² for brass (as in figure), determine (a) the maximum and minimum axial stresses in bar and (b) the total change in length of the bar.	2	3	2	12
() ()	tensile load of 60KN is gradually applied to a circular bar of 4cm lameter and 5m long. If the value of E=2.0x10.5N/mm², determine: Stretch in the rod Stress in the rod Strain energy absorbed by the rod	2	3	2	12

GOOD LUCK

	MENTARY EVANLOF FREI CE ECT: CIVIL ENGINEERIN	JACSTER - CECCHOYFARDY O DRAWING (OBJECTIVE	707 17-19 PATCH BEICES
Dated: 02,04,2022	A	O DRAWING (OBJECTIVE	TEST)
Marks obtained in a	Maximum	Marks: 10 T	me Allowed: 20 Minutes,
Marks obtained in figures:	10 NO48		
Marks obtained in words:		Sign of In	ternal Examiner
CHOOSE APPROPRIA		Sign of Ex	sternal Examiner
CHOOSE APPROPRIATE AN	SYER		
1. To draw or measure ang (a) T-square 2. The two parts of the T	es, is used.		
2. The two parts of the T	(b) Protractor	(c) Compass	(d) Divider
(a) Vertical and the 1-sc	uare areand	***	/
3. In cometric projection of 60° The building construction building construction of the building const	Can obtact the contract of	e and linear edge (V	Stock and Blade
Rt.) 60.	ON 1200	n angle of	•
The building construction buildings.	n industry relies on sate	(c) 30-	teust bornes and commercia
buildings.	y renes un sets (al drawings to con-	druct manes
(a) mechanical	(b) isometric	(a) architectural working	(d) all of these
(a) Row building	*) Residential building	(c) commercial building	(d) Educational building
6. Foundation is the	(D) Middle	N/Lower	(d) Sill
7. What is the other name of	of circulation in the same	floor	(d) Downward
8. A stair turning Through () Quarter-turn	one right and a to be		(d) Open navel
The horizontal platform	between two flights of a s	tair is known as the	(-, -,
(a) Risė	(b) Pitch	(c) Nosing	(d) Landing
10. The inclined rail over the (a) Headroom	string is known as a (b) Landing	(+) Handrail	(d) Heading
STATE WHETHER TRUE OF	LFALSE:	2	
11. Doors and windows are o	only made of wood. (T./	ห	
12. Middle rail of a door is al	so called lock rail. (T / F	1 /	
11. Doors and windows are of12. Middle rail of a door is al13. A combination of tread a	nd riser is known as soffi	i.(1/1)	
14. Service area where cooki			
15. A structural member use	d mainly for covering sp	ces in the form of roof or	floor is called beam. (T / F
16 PCC columns are only ci	reular in shape. (T / F)	_	
17. A dog-legged stair has a v	vell between two flights.	(T/F)	-
18. Floor on first storey of bu	ilding is numbered as flo	or 1. (T / F)	
19. Under-ground pipe of ma	sonry used for disposal	of sewage is called sewe	r pipes. (Y / F)
20. Vertical side of an openin	g of door and windows I	s called Jamb. (T / F)	

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH

QUAID-E-AWAM UNIVERSITY OF ENGINEERING, SCIENCE & TECHNOLOGY, NAWABSHAH FINAL SEMESTER REGULAR EXAMINATION OF FIRST SEMESTER - SECOND YEAR 2022 OF 20 BATCH, B.E.(CE)

SUBJECT: ARCHITECTURE & TOWN PLANNING

Dated: 02.06.2022 Maximum Marks: 30 Time Allowed: 02 Hours.

NOTE: ATTEMPT ALL QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

Q. No		QUESTION	aoı	CLOs Tasonomy Level		Marks
Q. 01		Define Islamic Architecture in detail. Discuss briefly types of Islamic architecture.	1	C2	4	10
Q. 02		Discuss the principles of town planning in detail. define why town planning is necessary?	2	C6	3	05
	(ь)	Define zoning in town planning and what importance it has in town planning.	2	C6	3	05
Q. 03		Describe what are various stages of a town development in detail. Define the types of growth of town and satellite town in detail.	2	C6	3	05

The End